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Year	Authors	Title	Source
2020	Ohenoja, M., Ruusunen, M., Hultgren, M., Remes, A.	Model Adaptation for Dynamic Flotation Process Simulation	2020 7th International Conference on Control, Decision and Information Technologies (CoDIT)
2020	Wan, X., Shi, J., Klemettinen, L., Chen, M., Taskinen, P., Jokilaakso, A.	Equilibrium phase relations of CaO–SiO ₂ –TiO ₂ system at 1400 °C and oxygen partial pressure of 10–10 atm	Journal of Alloys and Compounds, 847, art. no. 156472
2020	Ilett, M., Matar, O., Bamiduro, F., Sanchez-Segado, S., Brydson, R., Brown, A., Hondow, N.	Nanoparticle corona artefacts derived from specimen preparation of particle suspensions	Scientific Reports, 10 (1), art. no. 5278
2020	Sarbishei, S., Tafaghodi Khajavi, L.	The effect of sulfur content of rotary kiln fuel on the composition of nickel laterite calcine	Fuel, 280, art. no. 118648
2020	Guo, X.H., Shen, J., Liu, S., Chen, J., Niu, Y.	The corrosion behavior of Ni-Cr-Al alloys exposed to mixed oxidizing-carburizing atmospheres at 800 °C	Corrosion Science, 176, art. no. 108877
2020	Niazi, S., Olsen, E., Nygård, H.S.	Hydrolysis of eutectic compositions in the ZnCl ₂ :KCl:NaCl ternary system and effect of adding ZnO	Journal of Molecular Liquids, 317, art. no. 114069
2020	Elomaa, H., Rintala, L., Aromaa, J., Lundström, M.	Process simulation based life cycle assessment of cyanide-free refractory gold concentrate processing – Case study: Cupric chloride leaching	Minerals Engineering, 157, art. no. 106559
2020	Gao, X., Chen, Z., Shi, J., Taskinen, P., Jokilaakso, A.	Effect of Cooling Rate and Slag Modification on the Copper Matte in Smelting Slag	Mining, Metallurgy and Exploration, 37 (5), pp. 1593-1601.
2020	Li, Y., Xue, H., Taskinen, P., Yang, S., Tang, C., Jin, W., Chen, Y., Jokilaakso, A.	Sustainable phase-conversion method for antimony extraction and sulfur conservation and waste treatment at low temperature	Journal of Cleaner Production, 268, art. no. 121950
2020	Fu, M., Ma, H., Li, X., Xu, H.	Mechanism and thermodynamic study of solar H ₂ production on LaFeO ₃ defected surface: Effect of H ₂ O to H ₂ conversion ratio and kinetics on optimization of energy conversion efficiency	Journal of Cleaner Production, 268, art. no. 122293
2020	Fan, Y., Fan, J., Li, W., Han, Y., Lv, Y., Cheng, H.	Microstructure and ultra-high temperature isothermal oxidation behaviour of YSZ-particle-modified WSi ₂ coating	Surface and Coatings Technology, 397, art. no. 125982
2020	Dai, Y., Xu, Z., Hua, D., Gu, H., Wang, N.	Theoretical-molar Fe ³⁺ recovering lithium from spent LiFePO ₄ batteries: an acid-free, efficient, and selective process	Journal of Hazardous Materials, 396, art. no. 122707
2020	Li, Y., Yang, S., Taskinen, P., He, J., Chen, Y., Tang, C., Jokilaakso, A.	Recycling of Spent Lead-Acid Battery for Lead Extraction with Sulfur Conservation	JOM, 72 (9), pp. 3186-3194.
2020	Pasechnik, L.A., Skachkov, V.M., Bogdanova, E.A., Chufarov, A.Y., Kellerman, D.G., Medyankina, I.S., Yatsenko, S.P.	A promising process for transformation of hematite to magnetite with simultaneous dissolution of alumina from red mud in alkaline medium	Hydrometallurgy, 196, art. no. 105438
2020	Wei, X., Zhang, H., Sun, D., Tian, C., Guo, J., Cui, S., Tang, W.	Studies on the Al ₂ O ₃ mesophase in synthesized AlN powder and its effects on properties of AlN ceramic substrates	Ceramics International, 46 (13), pp. 21172-21181.
2020	Li, K., Zeng, Y., Luo, J.-L.	Corrosion of duplex stainless steel 2205 in hot flue gas environments produced at advanced oxy-fired pressurized fluidized bed combustion plants	International Journal of Greenhouse Gas Control, 100, art. no. 103108
2020	Pateli, I.M., Thompson, D., Alabdullah, S.S.M., Abbott, A.P., Jenkin, G.R.T., Hartley, J.M.	The effect of pH and hydrogen bond donor on the dissolution of metal oxides in deep eutectic solvents	Green Chemistry, 22 (16), pp. 5476-5486.
2020	Abu Kassim, S., Thor, J.A., Abu Seman, A., Abdullah, T.K.	High temperature corrosion of Hastelloy C22 in molten alkali salts: The effect of pre-oxidation treatment	Corrosion Science, 173, art. no. 108761
2020	Zhu, W., Kamali, A.R.	Green molten salt synthesis and Li-ion storage performance of sodium dimolybdate	Journal of Alloys and Compounds, 831, art. no. 154781
2020	Choi, J.-H., Lee, K.-R., Kang, H.-W., Park, H.-S.	Reactive-crystallization method for purification of LiCl salt waste	Journal of Radioanalytical and Nuclear Chemistry, 325 (2), pp. 485-492.
2020	Sezer, R., Bilen, A., Hizli, G., Ertürk, S., Arslan, C.	Effects of Furnace Slope and Rotational Speed on the Carbothermic Reduction of Celestite in a Laboratory-Scale Rotary Kiln Furnace	Mining, Metallurgy and Exploration, 37 (4), pp. 1273-1278.
2020	Renggli, C.J., Klemme, S.	Experimental constraints on metal transport in fumarolic gases	Journal of Volcanology and Geothermal Research, 400, art. no. 106929

- 2020 Wang, S., Lamborn, L., Chevil, K., Gamboa, E., Chen, W. Near-neutral pH corrosion of mill-scaled X-65 pipeline steel with paint primer *Journal of Materials Science and Technology*, 49, pp. 166-178.
- 2020 Fernandes, I.B., Abadías Llamas, A., Reuter, M.A. Simulation-Based Exergetic Analysis of NdFeB Permanent Magnet Production to Understand Large Systems *JOM*, 72 (7), pp. 2754-2769.
- 2020 Baygi, N.J., Saghir, A.V., Beidokhti, S.M., Khaki, J.V. Modified auto-combustion synthesis of mixed-oxides TiO₂/NiO nanoparticles: Physical properties and photocatalytic performance *Ceramics International*, 46 (10), pp. 15417-15437.
- 2020 Kazemi, H., Kermani, F., Mollazadeh, S., Vahdati Khakhi, J. The significant role of the glycine-nitrate ratio on the physicochemical properties of Co_xZn_{1-x}O nanoparticles *International Journal of Applied Ceramic Technology*, 17 (4), pp. 1852-1868.
- 2020 Kim, W.-B., Kwon, S.-C., Cho, S.-H., Lee, J.-H. Effect of the grain size of YSZ ceramic materials on corrosion resistance in a hot molten salt CaCl₂-CaF₂-CaO system *Corrosion Science*, 170, art. no. 108664
- 2020 Haynes, D.J., Shekhawat, D., Berry, D., Roy, A., Spivey, J.J. Effect of calcination temperature on steam reforming activity of Ni-based pyrochlore catalysts *Journal of Rare Earths*, 38 (7), pp. 711-718.
- 2020 Wu, D.L., Dahl, K.V., Grumsen, F.B., Christiansen, T.L., Montgomery, M., Hald, J. Breakdown mechanism of γ-Al₂O₃ on Ni₂Al₃ coatings exposed in a biomass fired power plant *Corrosion Science*, 170, art. no. 108583
- 2020 Velasco, F., De La Pinta, N., Tornos, F., Briezewski, T., Larranāga, A. The relationship of destinezite to the acid sulfate alteration at the El Laco magnetite deposit, Chile *American Mineralogist*, 105 (6), pp. 860-872.
- 2020 Aracena, A., Valencia, A., Jerez, O. Ammoniacal system mechanisms for leaching copper from converter slag *Metals*, 10 (6), art. no. 712
- 2020 Choi, W.-S., Cho, S.-H., Lee, Y.-J., Kim, Y.-S., Lee, J.-H. Separation behavior of nickel and cobalt in a LiCl-KCl-NiCl₂ molten salt by electrorefining process *Journal of Electroanalytical Chemistry*, 866, art. no. 114175
- 2020 Kermani, F., Gharavian, A., Mollazadeh, S., Kargozar, S., Youssefi, A., Vahdati Khaki, J. Silicon-doped calcium phosphates; the critical effect of synthesis routes on the biological performance *Materials Science and Engineering C*, 111, art. no. 110828
- 2020 Al-Shankiti, I.A., Bayon, A., Weimer, A.W. Reduction kinetics of hercynite redox materials for solar thermochemical water splitting *Chemical Engineering Journal*, 389, art. no. 124429
- 2020 Yang, Q., Zhou, C., Ni, J., Guan, X. Methane dry reforming in a coking- And sintering-free liquid alloy-salt catalytic system *Sustainable Energy and Fuels*, 4 (6), pp. 2768-2774.
- 2020 Mandon, C.L., Seward, T.M., Christenson, B.W. Volatile transport of metals and the Cu budget of the active White Island magmatic-hydrothermal system, New Zealand *Journal of Volcanology and Geothermal Research*, 398, art. no. 106905
- 2020 Monteverde, F., Saraga, F. Entropy stabilized single-phase (Hf,Nb,Ta,Ti,Zr)B₂ solid solution powders obtained via carbo/boro-thermal reduction *Journal of Alloys and Compounds*, 824, art. no. 153930
- 2020 Zhang, Y., Li, Q., Liu, X., Yin, H., Yang, Y., Xu, B., Jiang, T., He, Y. The catalytic effect of copper ion in the bioleaching of arsenopyrite by *Acidithiobacillus ferrooxidans* in 9K culture medium *Journal of Cleaner Production*, 256, art. no. 120391
- 2020 Shen, L., Sippola, H., Li, X., Lindberg, D., Taskinen, P. Thermodynamic Modeling of Calcium Sulfate Hydrates in a CaSO₄-H₂SO₄-H₂O System from 273.15 to 473.15 K up to 5 m Sulfuric Acid *Journal of Chemical and Engineering Data*, 65 (5), pp. 2310-2324.
- 2020 Lee, H., Mishra, B. Recovery of Copper and Precious Metals and Separation of Lead from Flue Dust of Electronic Waste Processing *Mineral Processing and Extractive Metallurgy Review*, 41 (3), pp. 153-161.
- 2020 Lai, A., Lai, F., Huang, L., Qiu, J., Zhou, X., Xiao, Y. Non-ammonia enrichment of rare earth elements from rare earth leaching liquor in a magnesium salt system I: Precipitation by calcium oxide *Hydrometallurgy*, 193, art. no. 105318
- 2020 Kaneko, T., Yashima, Y., Ahmadi, E., Natsui, S., Suzuki, R.O. Synthesis of Sc sulfides by CS₂ sulfurization *Journal of Solid State Chemistry*, 285, art. no. 121268
- 2020 Bayon, A., de la Calle, A., Ghose, K.K., Page, A., McNaughton, R. Experimental, computational and thermodynamic studies in perovskites metal oxides for thermochemical fuel production: A review *International Journal of Hydrogen Energy*, 45 (23), pp. 12653-12679.
- 2020 Sarkar, R., Nash, B.P., Sohn, H.Y. Interaction of magnesia-carbon refractory with ferrous oxide under flash ironmaking conditions *Ceramics International*, 46 (6), pp. 7204-7217.
- 2020 Liu, H., Song, W., Xu, Q., Ma, W., Bai, Y. Direct fabrication of ZrC/ZrSi composite fibers from ZrSiO₄/C precursors in molten chlorides by electrochemical method *Ceramics International*, 46 (6), pp. 8015-8020.
- 2020 Lin, K.-W., Wu, H.-W. Hydrogen-rich syngas production and carbon dioxide formation using aqueous urea solution in biogas steam reforming by thermodynamic analysis *International Journal of Hydrogen Energy*, 45 (20), pp. 11593-11604.
- 2020 Bartie, N.J., Abadías Llamas, A., Heibeck, M., Fröhling, M., Volkova, O., Reuter, M.A. The simulation-based analysis of the resource efficiency of the circular economy—the enabling role of metallurgical infrastructure *Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy*, 129 (2), pp. 229-249.

- 2020 Picazo-Rodríguez, N.G., Soria-Aguilar, M.J., Martínez-Luévanos, A., Almaguer-Guzmán, I., Chaidez-Félix, J., Carrillo-Pedroza, F.R. Direct acid leaching of sphalerite: An approach comparative and kinetics analysis Minerals, 10 (4), art. no. 359
- 2020 Basafa, M., Hawboldt, K. Sulfur speciation in soured reservoirs: chemical equilibrium and kinetics Journal of Petroleum Exploration and Production Technology, 10 (4), pp. 1603-1612.
- 2020 Gómez-Gómez, A., Ramírez, C., Llorente, J., García, A., Moreno, P., Reveron, H., Chevalier, J., Osendi, M.I., Belmonte, M., Miranzo, P. Improved crack resistance and thermal conductivity of cubic zirconia containing graphene nanoplatelets Journal of the European Ceramic Society, 40 (4), pp. 1557-1565.
- 2020 Vanhatupa, S., Miettinen, S., Pena, P., Baudín, C. Diopside-tricalcium phosphate bioactive ceramics for osteogenic differentiation of human adipose stem cells Journal of Biomedical Materials Research - Part B Applied Biomaterials, 108 (3), pp. 819-833.
- 2020 Sri Maha Vishnu, D., Sure, J., Kim, H.-K., Kumar, R.V., Schwandt, C. Solid state electrochemically synthesised β -SiC nanowires as the anode material in lithium ion batteries Energy Storage Materials, 26, pp. 234-241
- 2020 Barton, H.F., Davis, A.K., Parsons, G.N. The Effect of Surface Hydroxylation on MOF Formation on ALD Metal Oxides: MOF-525 on TiO₂/Polypropylene for Catalytic Hydrolysis of Chemical Warfare Agent Simulants ACS Applied Materials and Interfaces, 12 (13), pp. 14690-14701.
- 2020 Elomaa, H., Sinisalo, P., Rintala, L., Aromaa, J., Lundström, M. Process simulation and gate-to-gate life cycle assessment of hydrometallurgical refractory gold concentrate processing International Journal of Life Cycle Assessment, 25 (3), pp. 456-477.
- 2020 ALabdeh, D., Karbassi, A.R., Omidvar, B., Sarang, A. Speciation of metals and metalloids in Anzali Wetland, Iran International Journal of Environmental Science and Technology, 17 (3), pp. 1411-1424.
- 2020 Hannula, J., Godinho, J.R.A., Llamas, A.A., Luukkanen, S., Reuter, M.A. Simulation-Based Exergy and LCA Analysis of Aluminum Recycling: Linking Predictive Physical Separation and Re-melting Process Models with Specific Alloy Production Journal of Sustainable Metallurgy, 6 (1), pp. 174-189.
- 2020 Matanovic, I., Garzon, F.H. Assessing Stability of Transition Metal Nitrides in Aqueous Environments: The Case of Molybdenum, Iron, Vanadium and Nickel Nitride Journal of the Electrochemical Society, 167 (4), art. no. 046518
- 2020 Udoeva, L.Y., Chumarev, V.M., Gulyaeva, R.I. Kinetic Analysis of Vapor Transfer of Silicon by Zinc Sulfide Inorganic Materials: Applied Research, 11 (2), pp. 264-270.
- 2020 Jin, J., Wang, L., Fu, M., Li, X., Lu, Y. Thermodynamic assessment of hydrogen production via solar thermochemical cycle based on MoO₂/Mo by methane reduction Frontiers in Energy, 14 (1), pp. 71-80.
- 2020 Babenko, A.A., Smirnov, L.A., Upolovnikova, A.G., Smetannikov, A.N., Sychev, A.V. Theoretical Bases and Technology of Steel Exhaustive Metal Desulfurization and Direct Microalloying with Boron Beneath Basic Boron-Containing Slags Metallurgist, 63 (11-12), pp. 1259-1265.
- 2020 Smith, N.D., Orabona, N.E., Soldan Palma, J.P., Kong, Y., Blanchard, C. Thermodynamic properties of Ca–Pb electrodes determined by electromotive force measurements Journal of Power Sources, 451, art. no. 227745
- 2020 Souza, B., Souza, R., Santos, I., Brocchi, E. MgSO₄ carbothermic reductive decomposition to produce a highly reactive MgO powder Journal of Materials Research and Technology, 9 (2), pp. 1847-1855.
- 2020 Zhang, Y., Li, Q., Liu, X. Role of Ag⁺ in the bioleaching of arsenopyrite by acidithiobacillus ferrooxidans Metals, 10 (3), art. no. 403
- 2020 Xie, W., Parsons, G.N. Thermal atomic layer etching of metallic tungsten via oxidation and etch reaction mechanism using O₂ or O₃ for oxidation and WCl₆ as the chlorinating etchant Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 38 (2), art. no. 022605
- 2020 Kermani, F., Beidokhti, S.M., Bairo, F., Gholamzadeh-Virany, Z., Mozafari, M., Kargozar, S. Strontium-and cobalt-doped multicomponent mesoporous bioactive glasses (MBGS) for potential use in bone tissue engineering applications Materials, 13 (6), art. no. 1348
- 2020 Abadías Llamas, A., Bartie, N.J., Heibeck, M., Stelter, M., Reuter, M.A. Simulation-Based Exergy Analysis of Large Circular Economy Systems: Zinc Production Coupled to CdTe Photovoltaic Module Life Cycle Journal of Sustainable Metallurgy, 6 (1), pp. 34-67.
- 2020 Liu, B., Xiao, G.-Y., Chen, C.-Z., Lu, Y.-P., Geng, X.-W. Hopeite and scholzite coatings formation on titanium via wet-chemical conversion with controlled temperature Surface and Coatings Technology, 384, art. no. 125330
- 2020 Dang, H., Li, N., Chang, Z., Wang, B., Zhan, Y., Wu, X., Liu, W., Ali, S., Li, H., Guo, J., Li, W., Zhou, H., Sun, C. Lithium leaching via calcium chloride roasting from simulated pyrometallurgical slag of spent lithium ion battery Separation and Purification Technology, 233, art. no. 116025
- 2020 Pedraza, F., Bouchaud, B. Solid state interfacial reactions in a ceria-coated Ni-based superalloy Surface and Coatings Technology, 383, art. no. 125202

- 2020 Jansa, I.L., Kalantzopoulos, G.N., Nordholm, K., Hauback, B.C. Destabilization of NaBH₄ by transition metal fluorides *Molecules*, 25 (4), art. no. 780
- 2020 Lee, D.T., Jamir, J.D., Peterson, G.W., Parsons, G.N. Protective Fabrics: Metal-Organic Framework Textiles for Rapid Photocatalytic Sulfur Mustard Simulant Detoxification *Matter*, 2 (2), pp. 404-415.
- 2020 Hao, Y., Jin, J., Jin, H. Thermodynamic analysis of isothermal CO₂ splitting and CO₂-H₂O co-splitting for solar fuel production *Applied Thermal Engineering*, 166, art. no. 113600
- 2020 Marino, A., Peltomäki, M., Lim, J., Aerts, A. A multi-physics computational tool based on CFD and GEM chemical equilibrium solver for modeling coolant chemistry in nuclear reactors *Progress in Nuclear Energy*, 120, art. no. 103190
- 2020 Salina, V.A., Zhuchkov, V.I., Zayakin, O.V. Thermodynamic Simulation of Silicothermic Reduction of Chromium *Steel in Translation*, 50 (2), pp. 84-89
- 2020 Yang, Y., Wei, T., Xiao, M., Niu, F., Shen, L. Rare Earth Recovery from Fluoride Molten-Salt Electrolytic Slag by Borax Roasting-Hydrochloric Acid Leaching *JOM*, 72 (2), pp. 939-945.
- 2020 Niu, Y., Sun, L., Hu, C., Zhou, J., Dou, Q., Li, Q. Study on the fluorination reaction of uranium tetrafluoride by nitrogen trifluoride *Journal of Fluorine Chemistry*, 230, art. no. 109436
- 2020 Sarkar, R., Nash, B.P., Sohn, H.Y. Interaction of magnesia-carbon refractory with metallic iron under flash ironmaking conditions *Journal of the European Ceramic Society*, 40 (2), pp. 529-541.
- 2020 Ahmadi, E., Suzuki, R.O. An Innovative Process for Production of Ti Metal Powder via TiS_x from TiN *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, 51 (1), pp. 140-148.
- 2020 Li, X., Yang, L., Zhou, Q., Qi, T., Liu, G., Peng, Z. A split-combination method for estimating the thermodynamic properties (G_f o and H_f o) of multicomponent minerals *Applied Clay Science*, 185, art. no. 105406
- 2020 Zhang, S., Jia, L., Guo, Y., Kong, B., Zhou, C., Zhang, H. Improvement in the oxidation resistance of Nb-Si-Ti based alloys containing zirconium *Corrosion Science*, 163, art. no. 108294
- 2020 Larsson, E., Liske, J., Persdotter, A., Jonsson, T., Svensson, J-E., Johansson, L-G. The Influence of KCl and HCl on the High-Temperature Oxidation of a Fe-2.25Cr-1Mo Steel at 400 °C *Oxidation of Metals*, 93 (1-2), pp. 29-52.
- 2020 Zelenski, M., Kamenetsky, V.S., Taran, Y., Kovalskii, A.M. Mineralogy and Origin of Aerosol From an Arc Basaltic Eruption: Case Study of Tolbachik Volcano, Kamchatka *Geochemistry, Geophysics, Geosystems*, 21 (2), art. no. e2019GC008802
- 2020 Fu, M., Jin, J., Ma, H., Wang, L., Ma, T., Dou, L., Chang, Z., Li, X., Lu, Y. Thermodynamic analysis of novel vanadium redox materials for solar thermochemical ammonia synthesis from N₂ and CH₄ *International Journal of Hydrogen Energy*, 45 (4), pp. 2569-2577.
- 2020 Matt, S.M., Haschke, J.M., McLean, W., Dinh, L.N. Moisture Corrosion of LiH: A Kinetic Investigation by DRIFT Spectroscopy *Journal of Physical Chemistry A*, 124 (2), pp. 283-287.
- 2020 Salina, V.A., Zhuchkov, V.I., Zayakin, O.V. A study of nickel and iron reduction silicothermic process by thermodynamic simulation *Materials Science Forum*, 989 MSF, pp. 511-516.
- 2020 Salina, V.A., Zhuchkov, V.I., Zayakin, O.V. Thermodynamic simulation of silicothermic chromium reduction process *Izvestiya Ferrous Metallurgy*, 63 (2), pp. 122-128.
- 2020 Salina, V.A., Zayakin, O.V., Zhuchkov, V.I. Thermodynamic Simulation of the Silicothermic Reduction of Chromium Ore Elements *Russian Metallurgy (Metally)*, 2020 (1), pp. 11-16.
- 2020 Gong, D., Zhou, K., Chen, W., Peng, C., Li, J. Treatment of Tungsten Ore by MgCl₂ Roasting-NaOH Leaching Process *Xiyou Jinshu/Chinese Journal of Rare Metals*, 44 (1), pp. 72-78.
- 2020 Sarkar, R., Sohn, H.Y. A Kinetic Model for the Interaction of FeO with MgO-14.5 wt% C Refractory Under the Conditions of the Novel Flash Ironmaking Technology (FIT) *Minerals, Metals and Materials Series*, pp. 21-31.
- 2020 Hara, Y.R.S., Kaluba, G., Musowoya, D., Chikontwe, K., Muchindu, C., Simfukwe, H., Chanda, T.P., Parirenyatwa, S. Leaching of copper, cobalt, and nickel from complex ore *Minerals, Metals and Materials Series, PartF1*, pp. 227-236.
- 2020 Sarkar, R., Sohn, H.Y. A Model for the Interaction of Fe with MgO-14.5 wt% C Refractory Under Flash Ironmaking Conditions *Minerals, Metals and Materials Series*, pp. 95-106.
- 2020 Beukes, J.P., Neizel, B.W., Kleynhans, E.L.J., van Zyl, P.G., Dawson, N.F. The influence of CaCO₃ addition and clay binder selection on electricity efficiency and other operational aspects during pre-reduction of pelletised chromite *Proceedings of INFACON XIII - 13th International Ferroalloys Congress: Efficient Technologies in Ferroalloy Industry*, pp. 543-552.
- 2020 Sun, F., Chen, X., Zhao, Z. Synthesis of Coarse-Grained Tungsten Carbide Directly from Scheelite/Wolframite by Carbothermal Reduction and Crystallization *JOM*, 72 (1), pp. 340-346.
- 2020 Akberdin, A., Kim, A., Sultangazyev, R., Karbayev, M. Thermodynamic modeling of the borbarium ferroalloy smelting technological process *Metalurgija*, 59 (3), pp. 333-336.
- 2020 Grudinskii, P.I., Zinoveev, D.V., Semenov, A.F., Zakunov, A.S., Dyubanov, V.G., Petelin, A.L. Advanced Method for Recycling Red Mud by Carbothermal Solid-Phase Reduction Using Sodium Sulfite *Metallurgist*, 63 (9-10), pp. 889-897.

- 2020 Woo, H.-Y., Lim, G.-S., Kwon, S.-C., Cho, S.-H., Lee, J.-H. Comparison of High-Temperature Corrosion Behavior of a FeCrAl Anode Current Collector in Liquid Ag and O₂ for the Solid Oxide Membrane Electrolysis Process *Oxidation of Metals*
- 2020 Abadías Llamas, A., Bartie, N.J., Heibeck, M., Stelter, M., Reuter, M.A. Resource Efficiency Evaluation of Pyrometallurgical Solutions to Minimize Iron-Rich Residues in the Roast-Leach-Electrowinning Process *Minerals, Metals and Materials Series*, pp. 351-364.
- 2020 Wan, X., Shi, J., Taskinen, P., Jokilaakso, A. Extraction of Copper from Copper-Bearing Materials by Sulfation Roasting with SO₂-O₂ Gas *JOM*
- 2020 Zhao, D.-Q., Yang, S.-H., Chen, Y.-M., Tang, C.-B., He, J., Li, H. Leaching of hemimorphite in neutral solution at high temperature *Journal of Mining and Metallurgy, Section B: Metallurgy*, 56 (2), pp. 203-208.
- 2020 Cui, P., Qin, B., Martinez, A.M., Haarberg, G.M. Electrolysis of indium oxide in LiCl-KCl based molten salts with a liquid cathode *International Journal of Electrochemical Science*, 15 (1), pp. 424-433.
- 2020 Abedini Najafabadi, H., Ozalp, N., Epstein, M., Davis, R. Solar Carbothermic Reduction of Dolomite: Direct Method for Production of Magnesium and Calcium *Industrial and Engineering Chemistry Research*
- 2020 Djokić, J., Jovančićević, B., Brčeski, I., Ranitović, M., Gajić, N., Kamberović, Ž. Leaching of metastannic acid from e-waste by-products *Journal of Material Cycles and Waste Management*
- 2020 Liu, H., Song, W., Xu, Q., Ma, W., Bai, Y. Low temperature electrochemical synthesis of nanostructured ZrC powder in molten salt *International Journal of Electrochemical Science*, 15, pp. 6238-6248.
- 2020 Ardani, M.R., Sheikh Abdul Hamid, S.A.R., Lee, H.L., Mohamed, A.R., Ibrahim, I. Low Temperature Synthesis Method of TiH₂ Powder from TiCl₄ Reduction with MgH₂ *Minerals, Metals and Materials Series*, pp. 1669-1679.
- 2020 Gao, Q., Sun, Q., Zhang, P., Peng, W., Chen, S. Sulfuric acid decomposition in the iodine–Sulfur cycle using heat from a very high temperature gas-cooled reactor *International Journal of Hydrogen Energy*
- 2020 González Escobedo, J.L., Mäkelä, E., Neuvonen, J., Uusi-Kyynty, P., Lindblad, M., Karinen, R., Puurunen, R.L. Hydrodeoxygenation of Propylphenols on a Niobia-Supported Platinum Catalyst: Ortho, Meta, Para Isomerism, Reaction Conditions, and Phase Equilibria *Advanced Sustainable Systems*
- 2019 Zinoveev, D., Grudinsky, P., Zakunov, A., Semenov, A., Panova, M., Valeev, D., Kondratiev, A., Dyubanov, V., Petelin, A. Influence of Na₂CO₃ and K₂CO₃ addition on iron grain growth during carbothermic reduction of red mud *Metals*, 9 (12), art. no. 1313
- 2019 Liu, X., Li, Q., Zhang, Y., Yang, Y., Xu, B., Jiang, T. Formation process of the passivating products from arsenopyrite bioleaching by acidithiobacillus ferrooxidans in 9k culture medium *Metals*, 9 (12), art. no. 1320
- 2019 Shi, J., Peng, C., Chen, M., Li, Y., Eric, H., Klemettinen, L., Lundström, M., Taskinen, Ma, T., Wang, L., Chang, C., Akhatov, J.S., Fu, M., Li, X. Sulfation Roasting Mechanism for Spent Lithium-Ion Battery Metal Oxides Under SO₂-O₂-Ar Atmosphere *JOM*, 71 (12), pp. 4473-4482.
- 2019 A comparative thermodynamic analysis of isothermal and non-isothermal CeO₂-based solar thermochemical cycle with methane-driven reduction *Renewable Energy*, 143, pp. 915-921.
- 2019 Sun, L., Hu, D., Zhang, Z., Deng, X. Oxidative degradation of methylene blue via PDS-based advanced oxidation process using natural pyrite *International Journal of Environmental Research and Public Health*, 16 (23), art. no. 4773
- 2019 Li, Y., Xu, T., Wang, S., Yang, J., Li, J., Xu, T., Xu, D. Characterization of oxide scales formed on heating equipment in supercritical water gasification process for producing hydrogen *International Journal of Hydrogen Energy*, 44 (56), pp. 29508-29515.
- 2019 Palacios, J.-L., Fernandes, I., Abadías, A., Valero, A., Valero, A., Reuter, M.A. Avoided energy cost of producing minerals: The case of iron ore *Energy Reports*, 5, pp. 364-374.
- 2019 Vishnyakov, A.V., Popov, V.A., Grebennik, A.V. Chemical Interaction of InAs with Zinc *Journal of Electronic Materials*, 48 (11), pp. 7099-7104.
- 2019 Xu, J., Wang, N., Chen, M., Zhou, Z., Wang, P. Evaluation of reduction behavior of blast furnace dust particles during in-flight process with experiment aided mathematical modeling *Applied Mathematical Modelling*, 75, pp. 535-552.
- 2019 Fu, M., Xu, H., Ma, H., Li, X. Theoretical assessment of hydrogen production and multicycle energy conversion via solar thermochemical cycle based on nonvolatile SnO₂ *Journal of Energy Chemistry*, 38, pp. 177-184.
- 2019 Fantozzi, D., Matikainen, V., Uusitalo, M., Koivuluoto, H., Vuoristo, P. Chlorine induced high-temperature corrosion mechanisms in HVOF and HVOF sprayed Cr₃C₂-based hardmetal coatings *Corrosion Science*, 160, art. no. 108166
- 2019 Ranitović, M., Đokić, J., Korać, M., Gajić, N., Dimitrijević, S. Recyclability of technology metals from E-waste: Case study of In and Ga recovery from magnetic fraction *Metallurgical and Materials Engineering*, 25 (3), pp. 183-194.
- 2019 Wang, B., Kong, H., Wang, H., Wang, Y., Hu, X. Kinetic and thermodynamic analyses of mid/low-temperature ammonia decomposition in solar-driven hydrogen permeation membrane reactor *International Journal of Hydrogen Energy*, 44 (49), pp. 26874-26887.

- 2019 Kwon, S., Cho, S.-H., Lee, J.-H. Electroreduction of indium tin oxide in a CaF₂-NaF-CaO molten salt at the solid oxide membrane anode system *Electrochimica Acta*, 320, art. no. 134549
- 2019 Chrysalidis, K., Ballof, J., Düllmann, C.E., Fedosseev, V.N., Granados, C., Marsh, B.A., Martinez Palenzuela, Y., Ramos, J.P., Rothe, S., Stora, T., Wendt, K. Developments towards the delivery of selenium ion beams at ISOLDE *European Physical Journal A*, 55 (10), art. no. 173
- 2019 Mohammad, A.F., El-Naas, M.H., Al-Marzouqi, A.H., Suleiman, M.I., Al Musharfy, M. Optimization of magnesium recovery from reject brine for reuse in desalination post-treatment *Journal of Water Process Engineering*, 31, art. no. 100810
- 2019 Yu, D., Cui, F., Cong, Y., Zhang, C., Tian, Q., Guo, X. Simultaneous selective chlorination and carbothermic reduction of high-iron manganese ore for the recovery of manganese chloride and metallic iron *Metals*, 9 (10), art. no. 1124
- 2019 Renggli, C.J., Palm, A.B., King, P.L., Guagliardo, P. Implications of Reactions Between SO₂ and Basaltic Glasses for the Mineralogy of Planetary Crusts *Journal of Geophysical Research: Planets*, 124 (10), pp. 2563-2582.
- 2019 Yang, J.H., Yoon, J.Y., Hong, S.-M., Lee, J.H., Cho, Y.-Z. An efficient capture of cesium from cesium iodide (CsI) off-gas by aluminosilicate sorbents in the presence of oxygen *Journal of Industrial and Engineering Chemistry*, 77, pp. 146-153.
- 2019 Abdelsayed, V., Gardner, T.H., Kababji, A.H., Fan, Y. Catalytic conversion of CO₂ to propylene carbonate over Pt-decorated Mg-substituted metal organic framework *Applied Catalysis A: General*, 586, art. no. 117225
- 2019 Segura-Salazar, J., Lima, F.M., Tavares, L.M. Life Cycle Assessment in the minerals industry: Current practice, harmonization efforts, and potential improvement through the integration with process simulation *Journal of Cleaner Production*, 232, pp. 174-192.
- 2019 Aarhaug, T.A., Ratvik, A.P. Aluminium Primary Production Off-Gas Composition and Emissions: An Overview *JOM*, 71 (9), pp. 2966-2977.
- 2019 Zheng, Y.-X., Lv, J.-F., Lai, Z.-N., Lan, Z.-Y., Wang, H. Innovative methodology for separating copper and iron from Fe-Cu alloy residues by selective oxidation smelting *Journal of Cleaner Production*, 231, pp. 110-120.
- 2019 Peshkichev, I.V., Bochkareva, A.A., Kuropatenko, V.F., Makeyeva, I.R., Shults, O.V. Thermodynamic Analysis of the Carbothermal Synthesis of (U, Pu)N *Radiochemistry*, 61 (5), pp. 535-540.
- 2019 Palacios, J.-L., Abadias, A., Valero, A., Valero, A., Reuter, M.A. Producing metals from common rocks: The case of gold *Resources, Conservation and Recycling*, 148, pp. 23-35.
- 2019 Sarkar, R., Sohn, H.Y. Interaction of Pure Alumina Refractory with FeO-SiO₂ and FeO-SiO₂-CaO Slags Relevant to the Novel Flash Ironmaking Technology *Steel Research International*, 90 (9), art. no. 1900104
- 2019 Paulson, N.H., Jennings, E., Stan, M. Bayesian strategies for uncertainty quantification of the thermodynamic properties of materials *International Journal of Engineering Science*, 142, pp. 74-93.
- 2019 Jose-Luis, P., Abadias, A., Valero, A., Valero, A., Reuter, M. The energy needed to concentrate minerals from common rocks: The case of copper ore *Energy*, 181, pp. 494-503.
- 2019 Sarkar, R., Sohn, H.Y. Interaction of ferrous oxide with alumina refractory under flash ironmaking conditions *Ceramics International*, 45 (12), pp. 15417-15428.
- 2019 Gong, D., Zhou, K., Li, J., Peng, C., Chen, W. Kinetics of Roasting Reaction Between Synthetic Scheelite and Magnesium Chloride *JOM*, 71 (8), pp. 2827-2833.
- 2019 Jeon, S.-C., Kim, D.-J., Kim, D.S., Kim, K.S., Kim, J.H., Yoon, J.H., Yang, J.H. A comparative study on the cesium retention ability up to 1750 °C in Cs-Zr-Si-O, Cs-Al-Si-O, and Cs-Si-O *Ceramics International*, 45 (12), pp. 15754-15757.
- 2019 Shevko, V.M., Badikova, A.D., Karataeva, G.E., Tuleev, M.A. Extraction kinetics of silicon, aluminum, and calcium from dubersay basalt by electric smelting *International Journal of Engineering and Advanced Technology*, 8 (6), pp. 4566-4570.
- 2019 Vedmid', L.B., Zhilina, E.M., Osinkina, T.V., Krasikov, S.A., Zhidovinova, S.V., Nikitina, S.V. Aluminothermic Reduction of Titanium in the Presence of Tantalum and Vanadium Oxides *Russian Metallurgy (Metally)*, 2019 (8), pp. 812-815.
- 2019 Salyulev, A.B., Shishkin, A.V., Shishkin, V.Y., Zaikov, Y.P. Distillation of Lithium Chloride From the Products of Uranium Dioxide Metalization *Atomic Energy*, 126 (4), pp. 226-229.
- 2019 Li, Y., Yang, S., Taskinen, P., Chen, Y., Tang, C., Jokilaakso, A. Cleaner recycling of spent lead-acid battery paste and co-treatment of pyrite cinder via a reductive sulfur-fixing method for valuable metal recovery and sulfur conservation *Metals*, 9 (8), art. no. 911
- 2019 Muroyama, A., Guscetti, I., Schieber, G., Haussener, S., Loutzenhiser, P. Steam gasification of carbonaceous feedstocks via a 1.5 kW_{th} hybrid solar/autothermal reactor *AIP Conference Proceedings*, 2126, art. no. 090006

- 2019 Lerchner, J., Sartori, M.R., Volpe, P.O.L., Lander, N., Mertens, F., Vercesi, A.E. Direct determination of anaerobe contributions to the energy metabolism of *Trypanosoma cruzi* by chip calorimetry *Analytical and Bioanalytical Chemistry*, 411 (17), pp. 3763-3768.
- 2019 Li, Y., Yang, S., Taskinen, P., He, J., Chen, Y., Tang, C., Wang, Y., Jokilaakso, A. Spent Lead-Acid Battery Recycling via Reductive Sulfur-Fixing Smelting and Its Reaction Mechanism in the PbSO₄-Fe₃O₄-Na₂CO₃-C System *JOM*, 71 (7), pp. 2368-2379.
- 2019 Kim, S.-W., Jeon, M.K., Choi, E.-Y. Electrolytic behavior of SrCl₂ and BaCl₂ in LiCl molten salt during oxide reduction in pyroprocessing *Journal of Radioanalytical and Nuclear Chemistry*, 321 (1), pp. 361-365.
- 2019 Kermani, F., Mollazadeh, S., Vahdati Khaki, J. A simple thermodynamics model for estimation and comparison the concentration of oxygen vacancies generated in oxide powders synthesized via the solution combustion method *Ceramics International*, 45 (10), pp. 13496-13501.
- 2019 Guo, L., Zhong, S., Bao, Q., Gao, J., Guo, Z. Nucleation and growth of iron whiskers during gaseous reduction of hematite iron ore fines *Metals*, 9 (7), art. no. 750
- 2019 Zhang, Z., Li, W., Zhan, J., Li, G., Zhao, Z. Thermodynamic analysis of the bottom-blown direct reduction of lead sulfate with carbon *Journal of Thermal Analysis and Calorimetry*, 136 (6), pp. 2397-2407.
- 2019 Upham, D.C., Kristoffersen, H.H., Snodgrass, Z.R., Gordon, M.J., Metiu, H., McFarland, E.W. Bromine and iodine for selective partial oxidation of propane and methane *Applied Catalysis A: General*, 580, pp. 102-110.
- 2019 Shen, L., Sippola, H., Li, X., Lindberg, D., Taskinen, P. Thermodynamic Modeling of Calcium Sulfate Hydrates in the CaSO₄-H₂O System from 273.15 to 473.15 K with Extension to 548.15 K *Journal of Chemical and Engineering Data*, 64 (6), pp. 2697-2709.
- 2019 Jing, Q., Zhang, J., Liu, Y., Yang, C., Ma, B., Chen, Y., Wang, C. E-pH Diagrams for the Li-Fe-P-H₂O System from 298 to 473 K: Thermodynamic Analysis and Application to the Wet Chemical Processes of the LiFePO₄ Cathode Material *Journal of Physical Chemistry C*, 123 (23), pp. 14207-14215.
- 2019 Askari, S.R., Khakzadi, M., Shahpasandi, A., Najafzadehkhoe, A. Fabrication of W-ZrC nanocomposite through reaction sintering using relatively low-toxic methacrylamide-based system *Composites Communications*, 13, pp. 156-161.
- 2019 Velázquez-Martínez, O., Porvali, A., van den Boogaart, K.G., Santasalo-Aarnio, A., Lundström, M., Reuter, M., Serna-Guerrero, R. On the use of statistical entropy analysis as assessment parameter for the comparison of lithium-ion battery recycling processes *Batteries*, 5 (2), art. no. 41
- 2019 Abdallah, I., Dupressoire, C., Laffont, L., Monceau, D., Vande Put, A. STEM-EELS identification of TiO X N Y , TiN, Ti 2 N and O, N dissolution in the Ti2642S alloy oxidized in synthetic air at 650 °C *Corrosion Science*, 153, pp. 191-199.
- 2019 Carbonaro, R.F., Farley, K.J., Delbeke, K., Baken, S., Arbildua, J.J., Rodriguez, P.H., Rader, K.J. Modeling the Fate of Metal Concentrates in Surface Water *Environmental Toxicology and Chemistry*, 38 (6), pp. 1256-1272.
- 2019 Ahmad, K., Upadhyayula, S. Influence of reduction temperature on the formation of intermetallic Pd₂Ga phase and its catalytic activity in CO₂ hydrogenation to methanol *Greenhouse Gases: Science and Technology*, 9 (3), pp. 529-538.
- 2019 Kanari, N., Ostrosi, E., Diliberto, C., Filippova, I., Shallari, S., Allain, E., Diot, F., Patisson, F., Yvon, J. Green process for industrial waste transformation into super-oxidizing materials named alkali metal ferrates (VI) *Materials*, 12 (12), art. no. 1977
- 2019 Sheppard, D.A., Paskevicius, M., Javadian, P., Davies, I.J., Buckley, C.E. Methods for accurate high-temperature Sieverts-type hydrogen measurements of metal hydrides *Journal of Alloys and Compounds*, 787, pp. 1225-1237.
- 2019 Oral, O., Kantar, C. Diclofenac removal by pyrite-Fenton process: Performance in batch and fixed-bed continuous flow systems *Science of the Total Environment*, 664, pp. 817-823.
- 2019 Lovera, J., Tijero-Rojas, R., Meruane, G., Hernández-Luis, F. Prediction of Solubilities in the System Li + Na + K + Cl - + H₂ O at 25 °c and Industrial Process of Refining Muriate of Potash *Journal of Chemical and Engineering Data*, 64 (5), pp. 2027-2035.
- 2019 Coray, A., Jovanovic, Z.R. On the prevailing reaction pathways during magnesium production: Via carbothermic reduction of magnesium oxide under low pressures *Reaction Chemistry and Engineering*, 4 (5), pp. 939-953.
- 2019 Liu, X., Li, Q., Zhang, Y., Jiang, T., Yang, Y., Xu, B., He, Y. Improving gold recovery from a refractory ore via Na₂SO₄ assisted roasting and alkaline Na₂S leaching *Hydrometallurgy*, 185, pp. 133-141.

- 2019 Ballof, J., Seiffert, C., Crepieux, B., Düllmann, C.E., Delonca, M., Gai, M., Gottberg, A., Kröll, T., Lica, R., Madurga Flores, M., Martinez Palenzuela, Y., Mendonca, T.M., Owen, M., Ramos, J.P., Rothe, S., Stora, T., Tengblad, O., Wienholtz, F. Radioactive boron beams produced by isotope online mass separation at CERN-ISOLDE European Physical Journal A, 55 (5), art. no. 65
- 2019 Kanari, N., Allain, E., Shallari, S., Diot, F., Diliberto, S., Patisson, F., Yvon, J. Thermochemical route for extraction and recycling of critical, strategic and high value elements from by-products and end-of-life materials, Part I: Treatment of a copper by-product in air atmosphere Materials, 12 (10), art. no. 1625
- 2019 Zhang, J.-P., Qu, J.-L., Fu, Q.-G. Ablation behavior of nose-shaped HfB₂-SiC modified carbon/carbon composites exposed to oxyacetylene torch Corrosion Science, 151, pp. 87-96.
- 2019 Lerchner, J., Volpe, P.O.L., Lanaro, C., Fertrin, K.Y., Costa, F.F., Albuquerque, D.M., Haenschke, F., Mertens, F. A chip calorimetry-based method for the real-time investigation of metabolic activity changes in human erythrocytes caused by cell sickling Journal of Thermal Analysis and Calorimetry, 136 (2), pp. 771-781.
- 2019 Li, Y., Yang, S., Taskinen, P., He, J., Liao, F., Zhu, R., Chen, Y., Tang, C., Wang, Y., Jokilaakso, A. Novel recycling process for lead-acid battery paste without SO₂ generation - Reaction mechanism and industrial pilot campaign Journal of Cleaner Production, 217, pp. 162-171.
- 2019 Zhou, S., Wei, Y., Li, B., Wang, H. Cleaner recycling of iron from waste copper slag by using walnut shell char as green reductant Journal of Cleaner Production, 217, pp. 423-431.
- 2019 Jeon, S.-C., Lee, J.-W., Yoon, J.-Y., Cho, Y.-Z., Kim, D.-J., Kim, D.S., Kim, K.S., Kim, J.H., Yang, J.H. Stimulation of densification during the reduction of U₃O₈ to UO₂ by atmosphere control Ceramics International, 45 (6), pp. 6863-6868.
- 2019 Kim, W.Y., Jang, J.S., Ra, E.C., Kim, K.Y., Kim, E.H., Lee, J.S. Reduced perovskite LaNiO₃ catalysts modified with Co and Mn for low coke formation in dry reforming of methane Applied Catalysis A: General, 575, pp. 198-203.
- 2019 Sheppard, D.A., Buckley, C.E. The potential of metal hydrides paired with compressed hydrogen as thermal energy storage for concentrating solar power plants International Journal of Hydrogen Energy, 44 (18), pp. 9143-9163.
- 2019 Afflerbach, S., Trettin, R. A systematic screening approach for new materials for thermochemical energy storage and conversion based on the Strunz mineral classification system Thermochimica Acta, 674, pp. 82-94.
- 2019 Honarmandi, P., Paulson, N.H., Arróyave, R., Stan, M. Uncertainty quantification and propagation in CALPHAD modeling Modelling and Simulation in Materials Science and Engineering, 27 (3), art. no. 034003
- 2019 Michaux, B., Hannula, J., Rudolph, M., Reuter, M.A., van den Boogaart, K.G., Möckel, R., Kobylin, P., Hultgren, M., Peltomäki, M., Roine, A., Remes, A. Water-saving strategies in the mining industry – The potential of mineral processing simulators as a tool for their implementation Journal of Environmental Management, 234, pp. 546-553.
- 2019 Avarmaa, K., Klemettinen, L., O'Brien, H., Taskinen, P. Urban mining of precious metals via oxidizing copper smelting Minerals Engineering, 133, pp. 95-102.
- 2019 Sure, J., Sri Maha Vishnu, D., Schwandt, C. Electrochemical conversion of oxide spinels into high-entropy alloy Journal of Alloys and Compounds, 776, pp. 133-141.
- 2019 Jeon, S.-C., Kim, K.S., Kim, D.-J., Kim, D.S., Kim, J.H., Yoon, J., Yang, J.H. Thermodynamic evaluations of cesium capturing reaction in ceramic microcell UO₂ pellet for accident-tolerant fuel Journal of Nuclear Fuel Cycle and Waste Technology, 17 (1), pp. 37-46.
- 2019 Gajić, N., Kamberović, Ž., Anđić, Z., Trpčevská, J., Plešingerova, B., Korać, M. Synthesis of tribological WS₂ powder from WO₃ prepared by ultrasonic spray pyrolysis (USP) Metals, 9 (3), art. no. 277
- 2019 Gong, D., Zhou, K., Peng, C., Li, J., Chen, W. Sequential extraction of tungsten from scheelite through roasting and alkaline leaching Minerals Engineering, 132, pp. 238-244.
- 2019 Mandy, M., Georges, C., Sturel, T., Drillet, P., Jacques, P.J. On the analysis of the simultaneous uptake and desorption of different isotopes of gaseous hydrogen by advanced high strength steels Scripta Materialia, 161, pp. 84-87.
- 2019 Sri Maha Vishnu, D., Sure, J., Liu, Y., Vasant Kumar, R., Schwandt, C. Electrochemical synthesis of porous Ti-Nb alloys for biomedical applications Materials Science and Engineering C, 96, pp. 466-478.
- 2019 Cahyono, R.B., Bin Mansor, M., Nomura, T., Hidayat, M., Budiman, A., Akiyama, T. Steam Reforming of Tar Using Low-Grade Iron Ore for Hydrogen Production Energy and Fuels, 33 (2), pp. 1296-1301.
- 2019 Jahromy, S.S., Birkelbach, F., Jordan, C., Huber, C., Harasek, M., Werner, A., Winter, F. Impact of partial pressure, conversion, and temperature on the oxidation reaction kinetics of Cu₂O to CuO in thermochemical energy storage Energies, 12 (3), art. no. 508

- 2019 Salina, V.A., Zhuchkov, V.I., Zayakin, O.V. Thermodynamic Simulation of the Manufacture of Fe–Si–Ni–Cr Alloys Russian Metallurgy (Metally), 2019 (2), pp. 162-164.
- 2019 Agafonov, S.N., Ponomarenko, A.A., Russkikh, A.S. Thermodynamic Analysis of the Joint Aluminothermic Reduction of ZrO₂ and Nb₂O₅ Russian Metallurgy (Metally), 2019 (2), pp. 173-175.
- 2019 Osinkina, T.V., Krasikov, S.A., Zhilina, E.M., Agafonov, S.N., Vedmid', L.B., Zhidovinova, S.V. Influence of Niobium and Tantalum on the Phase Formation during the Metallurgical Interaction of Aluminum with Titanium Dioxide Russian Metallurgy (Metally), 2019 (2), pp. 85-89.
- 2019 Silakhori, M., Jafarian, M., Arjomandi, M., Nathan, G.J. Experimental assessment of copper oxide for liquid chemical looping for thermal energy storage Journal of Energy Storage, 21, pp. 216-221.
- 2019 Li, Y., Yang, S., Lin, W., Taskinen, P., He, J., Wang, Y., Shi, J., Chen, Y., Tang, C., Jokilaakso, A. Cleaner extraction of lead from complex lead-containing wastes by reductive sulfur-fixing smelting with low SO₂ emission Minerals, 9 (2), art. no. 119,
- 2019 Yoo, B.-U., Kwon, S.-C., Cho, S.-H., Nersisyan, H.H., Lee, J.-H. High-temperature stability of CSZ, YSZ, and MSZ ceramic materials in CaCl₂-CaF₂-CaO molten salt system Journal of Alloys and Compounds, 771, pp. 924-935.
- 2019 Liu, J., Guan, P.-W., Marker, C.N., Smith, N.D., Orabona, N., Shang, S.-L., Kim, H., Liu, Z.-K. Thermodynamic properties and phase stability of the Ba-Bi system: A combined computational and experimental study Journal of Alloys and Compounds, 771, pp. 281-289.
- 2019 Tesfaye, F., Sukhomlinov, D., Lindberg, D., Moroz, M., Taskinen, P., Hupa, L. High-Temperature Oxidation of Bismuth- and Antimony-Based Sulfosalts Mineral Processing and Extractive Metallurgy Review, 40 (1), pp. 67-78.
- 2019 Palacios, J.-L., Abadias, A., Valero, A., Valero, A., Reuter, M.A. Simulation-based approach to study the effect of the ore-grade decline on the production of gold ECOS 2019 - Proceedings of the 32nd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, 2019-June, pp. 3799-3809. Materials Science Forum, 946 MSF, pp. 493-499.
- 2019 Babenko, A.A., Smirnov, L.A., Upolovnikova, A.G. Fundamental research as a basis for the creation of new technologies in steel ladle metallurgy RSC Advances, 9 (41), pp. 23908-23915.
- 2019 Li, N., Guo, J., Chang, Z., Dang, H., Zhao, X., Ali, S., Li, W., Zhou, H., Sun, C. Aqueous leaching of lithium from simulated pyrometallurgical slag by sodium sulfate roasting Journal of the Serbian Chemical Society, 84 (4), pp. 423-433.
- 2019 Gajić, N., Kamberović, Ž., Anđić, Z., Korać, M., Trpčevská, J., Stamatović, M. Improving the synthesis process of tribological materials based on tin sulphides by adding graphite as additive Proceedings of the 32nd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, 2019-June, pp. 3811-3826.
- 2019 Palacios, J.-L., Fernandes, I., Abadias, A., Valero, A., Valero, A., Reuter, M.A. The avoided energy cost of producing minerals: The case of iron-ore IMPC 2018 - 29th International Mineral Processing Congress, pp. 3288-3297.
- 2019 Reuter, M.A., Van Schaik, A. The geo-metallurgy of the circular economy -design for recycling of Fairphone as an example Proceedings of the 32nd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, 2019-June, pp. 4545-4559.
- 2019 Palacios, J.-L., Abadias, A., Valero, A., Valero, A., Reuter, M.A. Producing metals from common rocks: The case of gold News of the National Academy of Sciences of the Republic of Kazakhstan, Series of Geology and Technical Sciences, 1 (433), pp. 98-106.
- 2019 Shevko, V.M., Aitkulov, D.K., Amanov, D.D., Badikova, A.D., Tuleyev, M.A. Thermodynamic modelling calciumcarbide and a ferroalloy formation from a system of the daubaba deposit basalt – Carbon – Iron Izvestiya Ferrous Metallurgy, 62 (12), pp. 957-963.
- 2019 Berdnikov, V.I., Gudim, Yu.A. Analysis of thermodynamic properties of Ca–Si–Fe melt Materials Science Forum, 946 MSF, pp. 423-429.
- 2019 Zhuchkov, V.I., Salina, V.A., Sychev, A.V. The Study of the Process of Metal-Thermal Reduction of Boron from the Slag of the System CaO-SiO₂-MgO-Al₂O₃-B₂O₃ MS and T 2019 - Materials Science and Technology 2019, pp. 202-209.
- 2019 Sarkar, R., Sohn, H.Y. A kinetic model for interaction of iron powder with alumina refractory relevant to the novel flash ironmaking technology (FIT) ECS Transactions, 94 (1), pp. 339-343.
- 2019 Marquez-García, R., Mendoza-Huizar, L.H. A voltamperometric study of the platinum electrodeposition on glassy carbon electrode. Influence of the temperature of the plating bath Physicochemical Problems of Mineral Processing, 55 (1), pp. 140-152.
- 2019 Aracena, A., Azocar, A., Ibáñez, J.P., Jerez, O. Mechanism and leaching kinetics of molybdenite concentrate in a hydrogen peroxide-acid system Journal of Materials Research and Technology, 8 (1), pp. 745-751.
- 2019 Souza, R., Navarro, R., Grillo, A.V., Brocchi, E. Potassium alum thermal decomposition study under non-reductive and reductive conditions Journal of Nuclear Fuel Cycle and Waste Technology, 17 (4), pp. 429-435.
- 2019 Eun, H.-C., Jung, J.-Y., Park, S.-Y., Park, J.-S., Chang, N.-O., Won, H.-J., Sim, J.-H., Kim, S.-B., Seo, B.-K. Removal and decomposition of impurities in wastewater from the hybrid decontamination process of the primary system in a nuclear power plant Physicochemical Problems of Mineral Processing, 55 (2), pp. 528-536.
- 2019 Havlik, T., Miskufova, A., Turek, P., Kobiakova, I.U. Considering the influence of calcium on EAF dust acid leaching

- 2019 Fedotov, M.A., Zinoveev, D.V., Grudinsky, P.I., Kovalenko, L.V., Dyubanov, V.G. Utilization of red mud and boron-containing liquid radioactive wastes of nuclear power plant IOP Conference Series: Materials Science and Engineering, 525 (1), art. no. 012095
- 2019 Matsuzaki, T., Suzuki, R.O., Natsui, S., Kikuchi, T., Ueda, M. Solubility of CaS in molten CaCl₂ Materials Transactions, 60 (3), pp. 386-390.
- 2019 Soria-Aguilar, M.J., Davila-Pulido, G.I., Carrillo-Pedroza, F.R., Gonzalez-Ibarra, A.A., Picazo-Rodriguez, N., Lopez-Saucedo, F.J., Ramos-Cano, J. Oxidative leaching of zinc and alkalis from iron blast furnace sludge Metals, 9 (9), art. no. 1015
- 2019 Kim, H., Kim, J.-T., Eoh, J., Lim, D.-W. Development of a physics-based monitoring algorithm detecting CO₂ ingress accidents in a sodium-cooled fast reactor Energies, 12 (1), art. no. 1,
- 2019 D'Aloya, A., Senanayake, G., Ralph, D., Nikoloski, A. Electrochemical behaviour of Ni₃S₂ and its spontaneous formation on metallic iron in ammoniacal-carbonate solutions Hydrometallurgy, 183, pp. 45-50.
- 2019 Gök, Ö., Yılmaz, H., Arslan, V., Turan, F. Effect of mineral matter doping on soma coal parameters International Journal of Coal Preparation and Utilization
- 2019 Souza, R., Queiroz, C., Brant, J., Brocchi, E. Pyrometallurgical processing of a low copper content concentrate based on a thermodynamic assessment Minerals Engineering, 130, pp. 156-164.
- 2019 Peng, Y., Reddy, R.G. Effect of Ni on the Corrosion Behavior of Haynes 230 Alloy in MgCl₂-KCl Salt Minerals, Metals and Materials Series, pp. 1313-1321.
- 2019 Matsuzaki, T., Suzuki, R.O., Natsui, S., Kikuchi, T., Ueda, M. Solubility of CaS in CaCl₂ LiCl eutectic melt Materials Transactions, 60 (3), pp. 411-415.
- 2019 Akberdin, A.A., Karbaev, M.M. Chemical transformations at carbothermal reduction of barium and boron from oxides Izvestiya Ferrous Metallurgy, 62 (11), pp. 846-851.
- 2019 Varga, G., Török, T., Felho, C., Orosz-Szirmai, G., Réz, I. Surface features of chromium alloyed carbon steel specimens after salt-spray tests in NaCl solution Advances in Production Engineering And Management, 14 (4), pp. 449-460.
- 2019 Chiba, A., Takamori, S., Ode, M., Nishimura, T. Influence of Zn content on grain boundary precipitates on stress corrosion cracking of AlZnMg alloys under environments containing chloride solutions Materials Transactions, 60 (9), pp. 1954-1963.
- 2019 Kadowaki, M., Muto, I., Takahashi, K., Doi, T., Masuda, H., Katayama, H., Kawano, K., Sugawara, Y., Hara, N. Anodic polarization characteristics and electrochemical properties of Fe₃C in chloride solutions Journal of the Electrochemical Society, 166 (12), pp. C345-C351.
- 2019 Tang, H., Liu, S., Rong, T. Preparation of high-carbon metallic briquette for blast furnace application ISIJ International, 59, pp. 22-30.
- 2019 Reuter, M.A., Van Schaik, A., Gutzmer, J., Bartie, N., Abadías-Llamas, A. Challenges of the Circular Economy: A Material, Metallurgical, and Product Design Perspective Annual Review of Materials Research, 49, pp. 253-274.
- 2019 Haraguchi, Y., Shibuya, R., Natsui, S., Kikuchi, T., Suzuki, R.O. Gas generation reactions during TiO₂ reduction using molten salt Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 83 (11), pp. 441-448.
- 2019 Ardani, M.R., Ying, W.J., Ibrahim, N., Rezan, S.A., Ramakrishnan, S., Noor, A.F.M., Mohamed, A.R. Effect of nickel as catalyst on the activation of titanium hydride (TiH₂) to Titanium Trichloride (TiCl₃) Materials Today: Proceedings, 17, pp. 743-751.
- 2019 Abe, K., Kurniawan, A., Sanada, M., Nomura, T., Akiyama, T. Combustion synthesis ironmaking: Investigation on required carbon amount in raw material from the viewpoint of adiabatic flame temperature calculation Indonesian Journal of Chemistry, 19 (3), pp. 696-702.
- 2019 Ardani, M.R., Al Janabi, A.S.M., Udayakumar, S., Sheikh Abdul Hamid, S.A.R., Mohamed, A.R., Lee, H.L., Ibrahim, I. Reduction of TiCl₄ to TiH₂ with CaH₂ in Presence of Ni Powder Minerals, Metals and Materials Series, pp. 131-144.
- 2019 Kang, H., Dong, Z., Zhang, W., Xie, Y., Peng, X. Laser melting deposition of a porosity-free alloy steel by application of high oxygen-containing powders mixed with Cr particles Vacuum, 159, pp. 319-323.
- 2019 Aracena, A., Álvarez, C., Jerez, O., Guajardo, N. Uptake of copper ion using protonated dry alginate beads from dilute aqueous solutions Physicochemical Problems of Mineral Processing, 55 (3), pp. 732-744.
- 2019 Huber, C., Jahromy, S.S., Jordan, C., Schreiner, M., Harasek, M., Werner, A., Winter, F. Boric acid: A high potential candidate for thermochemical energy storage Energies, 12 (6), art. no. 1086,

- 2019 Vishnu, D.S.M., Sure, J., Kumar, R.V., Schwandt, C. Phase composition, microstructure, corrosion resistance and mechanical properties of molten salt electrochemically synthesised TiNbSn biomedical alloys *Materials Transactions*, 60 (3), pp. 422-428.
- 2019 Tischer, S., Börnhorst, M., Amsler, J., Schoch, G., Deutschmann, O. Thermodynamics and reaction mechanism of urea decomposition *Physical Chemistry Chemical Physics*, 21 (30), pp. 16785-16797.
- 2019 Abolpour, B., Shamsoddini, R. Mechanism of reaction of silica and carbon for producing silicon carbide *Progress in Reaction Kinetics and Mechanism*
- 2019 Wang, X., Fu, G., Li, W., Zhu, M. Numerical analysis of effect of water gas shift reaction on flash reduction behavior of hematite with syngas *ISIJ International*, 59 (12), pp. 2193-2204.
- 2019 Wu, H.-W., Lin, K.-W. Hydrogen-rich syngas production by reforming of ethanol blended with aqueous urea using a thermodynamic analysis *Energy*, 166, pp. 541-551.
- 2019 Laubertová, M., Derin, B., Trpčevská, J., Šándorová, K., Sminčáková, E. Metals recovery: Study of the kinetic aspects of copper acidic leaching waste printed circuit boards from discarded mobile phones *Acta Montanistica Slovaca*, 24 (3), pp. 223-233.
- 2019 Sun, Q., Gao, Q., Zhang, P., Peng, W., Chen, S., Zhao, G., Wang, J. Numerical study of heat transfer and sulfuric acid decomposition in the process of hydrogen production *International Journal of Energy Research*, 43 (11), pp. 5969-5982.
- 2019 Blomberg, T., Tripathi, T., Karppinen, M. New chemical mechanism explaining the breakdown of protective oxides on high temperature steels in biomass combustion and gasification plants *RSC Advances*, 9 (18), pp. 10034-10048.
- 2019 Sheppard, D.A., Jepsen, L.H., Rowles, M.R., Paskevicius, M., Jensen, T.R., Buckley, C.E. Decomposition pathway of KAlH₄ altered by the addition of Al₂S₃ *Dalton Transactions*, 48 (15), pp. 5048-5057.
- 2019 Wang, S., Xu, D., Guo, Y., Tang, X., Wang, Y., Zhang, J., Ma, H., Qian, L., Li, Y. Supercritical water processing technologies for environment, energy and nanomaterial applications *Supercritical Water Processing Technologies for Environment, Energy and Nanomaterial Applications*, pp. 1-352.
- 2019 Abadias Llamas A., Valero Delgado A., Valero Capilla A., Torres Cuadra C., Hultgren M., Peltomäki M., Roine A., Stelter M., Reuter M.A. Simulation-based exergy, thermo-economic and environmental footprint analysis of primary copper production *Minerals Engineering* 131, pp. 51-65.
- 2019 Sure, J., Sri Maha Vishnu, D., Schwandt, C. Electrochemical conversion of oxide spinels into high-entropy alloy *Journal of Alloys and Compounds*, 776, pp. 133-141.
- 2019 Mandy, M., Georges, C., Sturel, T., Drillet, P., Jacques, P.J. On the analysis of the simultaneous uptake and desorption of different isotopes of gaseous hydrogen by advanced high strength steels *Scripta Materialia*, 161, pp. 84-87.
- 2019 Yoo, B.-U., Kwon, S.-C., Cho, S.-H., Nersisyan, H.H., Lee, J.-H. High-temperature stability of CSZ, YSZ, and MSZ ceramic materials in CaCl₂-CaF₂-CaO molten salt system *Journal of Alloys and Compounds*, 771, pp. 924-935.
- 2019 Liu, J., Guan, P.-W., Marker, C.N., Smith, N.D., Orabona, N., Shang, S.-L., Kim, H., Liu, Z.-K. Thermodynamic properties and phase stability of the Ba-Bi system: A combined computational and experimental study *Journal of Alloys and Compounds*, 771, pp. 281-289.
- 2019 D'Aloya, A., Senanayake, G., Ralph, D., Nikoloski, A. Electrochemical behaviour of Ni₃S₂ and its spontaneous formation on metallic iron in ammoniacal-carbonate solutions *Hydrometallurgy*, 183, pp. 45-50.
- 2019 Souza, R., Queiroz, C., Brant, J., Brocchi, E. Pyrometallurgical processing of a low copper content concentrate based on a thermodynamic assessment *Minerals Engineering*, 130, pp. 156-164.
- 2019 Wu, H.-W., Lin, K.-W. Hydrogen-rich syngas production by reforming of ethanol blended with aqueous urea using a thermodynamic analysis *Energy*, 166, pp. 541-551.
- 2019 Kang, H., Dong, Z., Zhang, W., Xie, Y., Peng, X. Laser melting deposition of a porosity-free alloy steel by application of high oxygen-containing powders mixed with Cr particles *Vacuum*, 159, pp. 319-323.
- 2019 M.A. Reuter, A. van Schaik, J. Gutzmer, N. Bartie, A. Abadias Llamas Challenges of the Circular Economy - A metallurgical and product design perspective *Annual Review of Materials Research*, Volume 49 (in press)
- 2018 M.A. Reuter, A. van Schaik, M. Ballester Limits of the Circular Economy: Fairphone Modular Design Pushing the Limits *World of Metallurgy – ERZMETALL* 71(2), pp. 68-79.
- 2018 R.F. van Schalkwyk, M.A. Reuter, J. Gutzmer, M. Stelter Challenges of digitalizing the circular economy: Assessment of the state-of-the-art of metallurgical carrier metal platform for lead and its associated technology elements *Journal of Cleaner production*, 186, 585-601
- 2018 B. Michaux, M. Rudolph, M.A. Reuter Challenges in predicting the role of water chemistry in flotation through simulation with an emphasis on the influence of electrolytes *Minerals Engineering* 125, 252-264

- 2018 J. Hannula, M. Kern, S. Luukkanen, A. Roine, K.G. van den Boogaart, M.A. Reuter Property-based modelling and simulation of mechanical separation processes using dynamic binning and neural networks Minerals Engineering 126, 52-63
- 2018 O. Velázquez Martínez, K.G. Van Den Boogaart, M. Lundström, A. Santasalo-Aarnio, M.A. Reuter, R. Serna-Guerrero Statistical Entropy Analysis as Tool for Circular Economy: Proof of Concept by Optimizing a Lithium-Ion Battery Waste Sieving System Journal of Cleaner Production (in press)
- 2018 B. Michaux, J. Hannula, M. Rudolph, M. A. Reuter, K. G. van den Boogaart, R. Möckel, P. Kobylin, M. Hultgren, M. Peltomäki, A. Roine, A. Remes The potential of mineral processing simulators as a tool for the implementation of water-saving strategies in the mining industry Journal of Environmental Management. (in press)
- 2018 N. Bartie, M. Fröhling, M.A. Reuter): Exploring Quantitative Modeling and Assessment Approaches for Circular Economy Systems - A Research Agenda Journal of Cleaner Production (1st review passed)
- 2018 D. Obiso, S. Kriebitzsch, M. Reuter, B. Meyer The importance of viscous and interfacial forces in the hydrodynamics of the Top-Submerged-Lance furnace Metallurgical Transactions B (submitted)
- 2018 Heikkinen Eetu-Pekka, Roine Antti Use of computational thermodynamics in process engineering education : Case : HSC Chemistry and its possibilities 3rd International Conference of the Portuguese Society for Engineering Education (CISPÉE 2018), 27-29 June, Aveiro, Portugal
- 2018 Choi, E.-Y., Heo, D.H. Reduction of zirconium oxide compounds by lithium metal as a reductant in molten LiCl salt Journal of Nuclear Materials, 512, pp. 193-198.
- 2018 Ramos, J.P., Stora, T., Senos, A.M.R., Bowen, P. Thermal stability of nanometric TiC-carbon composites: effects of carbon allotropes and Zr milling impurities Journal of the European Ceramic Society, 38 (15), pp. 4882-4891
- 2018 Lee, J., Hwang, T.-Y., Cho, H.-B., Kim, J., Choa, Y.-H. Near theoretical ultra-high magnetic performance of rare-earth nanomagnets via the synergetic combination of calcium-reduction and chemoselective dissolution Scientific Reports, 8 (1), art. no. 15656, .
- 2018 Dizaji, H.B., Hosseini, H. A review of material screening in pure and mixed-metal oxide thermochemical energy storage (TCES) systems for concentrated solar power (CSP) applications Renewable and Sustainable Energy Reviews, 98, pp. 9-26.
- 2018 Liu, J., Chen, Z., Ma, W., Wei, K., Ding, W. Application of a Waste Carbon Material as the Carbonaceous Reductant During Silicon Production Silicon, 10 (6), pp. 2409-2417.
- 2018 Pickles, C.A., Anthony, W. A Thermodynamic Study of the Reduction of a Limonitic Laterite Ore by Methane High Temperature Materials and Processes, 37 (9-10), pp. 909-919.
- 2018 Qiu, J., Leng, B., Liu, H., Macdonald, D.D., Wu, A., Jia, Y., Xue, W., Yu, G., Zhou, X. Effect of SO₄²⁻ on the corrosion of 316L stainless steel in molten FLiNaK salt Corrosion Science, 144, pp. 224-229.
- 2018 Wang, S., Song, L., Jiang, X. Prediction of gaseous products from Dachengzi oil shale pyrolysis through combined kinetic and thermodynamic simulations Journal of Thermal Analysis and Calorimetry, 134 (2), pp. 1129-1144.
- 2018 Lan, C., Lyu, Q., Liu, X., Jiang, M., Qie, Y., Zhang, S. Thermodynamic and kinetic behaviors of coke gasification in N₂-CO-CO₂-H₂-H₂O International Journal of Hydrogen Energy, 43 (42), pp. 19405-19413.
- 2018 Ødegård, I.A., Tranell, G.M. Formation of Copper-Neodymium Intermetallic Compounds by Carbothermic Reduction of Neodymium Oxide in the Presence of Copper Industrial and Engineering Chemistry Research, 57 (40), pp. 13566-13577.
- 2018 Jajarmi, E., Soltanieh, M., Nasiri, H. Using aluminothermic reduction of nickel oxide in formation of AlNi intermetallic compound Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 127 (4), pp. 236-241.
- 2018 Lin, M., Haussener, S. An integrated concentrated solar fuel generator utilizing a tubular solid oxide electrolysis cell as solar absorber Journal of Power Sources, 400, pp. 592-604.
- 2018 Lin, K.-W., Wu, H.-W. Hydrogen-rich syngas production of urea blended with biobutanol by a thermodynamic analysis International Journal of Hydrogen Energy, 43 (37), pp. 17562-17573.
- 2018 Kumar, K., Gesualdi, J., Smith, N.D., Kim, H. Influence of gaseous atmosphere on electrochemical behavior of nickel alloys in LiCl-KCl-Na₂SO₄ at 700 °C Corrosion Science, 142, pp. 1-11.
- 2018 Kosov, Y.I., Bazhin, V.Y. Features of Phase Formation During Aluminothermal Preparation of Aluminum-Erbium Master Alloy Metallurgist, 62 (5-6), pp. 440-448.
- 2018 Kang, K., Tu, R., Luo, G., Zhang, J., Zhu, J., Shen, Q., Zhang, L. Mechanical, electrical and thermal properties at elevated temperature of W-Si-C multi-phase composite prepared by arc-melting International Journal of Refractory Metals and Hard Materials, 75, pp. 101-106
- 2018 Vishnyakova, A.V., Vishnyakova, E.A., Kiseleva, T.Y., Ivanov, I.V. Physicochemical Processes in the Synthesis of New Detectors of X-Ray Radiation Based on YAG:Ce-Halide Fluxes Journal of Surface Investigation, 12 (5), pp. 853-860.

- 2018 Singh, A. Thermodynamic analysis of syngas production and sulfur capturing from a mixture of methane and hydrogen sulfide using a solar thermochemical redox cycle *Industrial and Engineering Chemistry Research*, 57 (34), pp. 11738-11746.
- 2018 Jeon, M.K., Kim, S.-W., Choi, E.-Y. Thermodynamic investigation on the behavior of rare earth oxides during electrolytic reduction process *Journal of Radioanalytical and Nuclear Chemistry*, 317 (2), pp. 1089-1093.
- 2018 Demol, J., Ho, E., Senanayake, G Sulfuric acid baking and leaching of rare earth elements, thorium and phosphate from a monazite concentrate: Effect of bake temperature from 200 to 800 °C *Hydrometallurgy*, 179, pp. 254-267.
- 2018 Schwandt, C. On the nature of the current and the absence of an IR-drop in an FFC-Cambridge-type electro-deoxidation cell *Electrochimica Acta*, 280, pp. 114-120.
- 2018 Ahmadi, E., Yashima, Y., Suzuki, R.O., Rezan, S.A. Formation of Titanium Sulfide from Titanium Oxycarbonitride by CS₂ Gas *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, 49 (4), pp. 1808-1821.
- 2018 Chen, Z., Zhou, S., Ma, W., Deng, X., Li, S., Ding, W. The effect of the carbonaceous materials properties on the energy consumption of silicon production in the submerged arc furnace *Journal of Cleaner Production*, 191, pp. 240-247.
- 2018 Lee, H., Mishra, B. Selective recovery and separation of copper and iron from fine materials of electronic waste processing *Minerals Engineering*, 123, pp. 1-7.
- 2018 Ibiapina, V.F., Afonso, J.C., Da Silva, R.S., Vianna, C.A., Mantovano, J.L. Separation of zinc from manganese by solvent extraction from acidic leachates of spent zinc-MnO₂ dry cells using neutral organophosphorus extractants *Quimica Nova*, 41 (7), pp. 770-777.
- 2018 Su, S., Mannini, D., Metiu, H., Gordon, M.J., McFarland, E.W. Chlorine Production by HCl Oxidation in a Molten Chloride Salt Catalyst *Industrial and Engineering Chemistry Research*, 57 (23), pp. 7795-7801.
- 2018 Kamberović, Ž., Ranitović, M., Korać, M., Andjić, Z., Gajić, N., Djokić, J., Jevtić, S. Hydrometallurgical process for selective metals recovery from waste-printed circuit boards *Metals*, 8 (6), art. no. 441
- 2018 Nicol, M.J., Akilan, C. The kinetics of the dissolution of chrysocolla in acid solutions *Hydrometallurgy*, 178, pp. 7-11.
- 2018 Liu, X., Xu, B., Yang, Y., Li, Q., Jiang, T., He, Y. Thermodynamic analysis of ammoniacal thiosulphate leaching of gold catalysed by Co(III)/Co(II) using Eh-pH and speciation diagrams *Hydrometallurgy*, 178, pp. 240-249.
- 2018 Sitando, O., Senanayake, G., Dai, X., Nikoloski, A.N., Breuer, P. A review of factors affecting gold leaching in non-ammoniacal thiosulfate solutions including degradation and in-situ generation of thiosulfate *Hydrometallurgy*, 178, pp. 151-175.
- 2018 Amini, K., Gharavi, F. Investigating electrochemical behavior of the nugget zone in dissimilar friction stir lap welded of copper-brass joints *Analytical and Bioanalytical Electrochemistry*, 10 (5), pp. 594-611.
- 2018 Xiao, B., Stixrude, L. Critical vaporization of MgSiO₃ *Proceedings of the National Academy of Sciences of the United States of America*, 115 (21), pp. 5371-5376.
- 2018 Kwon, S., Cho, S.-H., Nersisyan, H.H., Lee, J., Kang, J., Lee, J.-H. High-temperature stability of YSZ and MSZ ceramic materials in CaF₂-MgF₂-MgO molten salt system *Journal of the American Ceramic Society*, 101 (5), pp. 2074-2083.
- 2018 Silva, R.G., Afonso, J.C., Mahler, C.F. Acidic leaching of li-ion batteries [Lixívia Ção Ácida de baterias Íon-Ítíio] *Quimica Nova*, 41 (5), pp. 581-586.
- 2018 Salina, V.A., Sychev, A.V., Zhuchkov, V.I., Leont'ev, L.I., Babenko, A.A. Thermodynamic Simulation of the Influence of the Temperature and the Basicity of a Boron-Containing Slag on Steel Desulfurization *Russian Metallurgy (Metally)*, 2018 (5), pp. 427-431.
- 2018 Bai, M., Reddy, L., Hussain, T. Experimental and thermodynamic investigations on the chlorine-induced corrosion of HVOF thermal sprayed NiAl coatings and 304 stainless steels at 700 °C *Corrosion Science*, 135, pp. 147-157.
- 2018 Li, Y., Wang, S., Sun, P., Yang, J., Tang, X., Xu, D., Guo, Y., Yang, J., Macdonald, D.D. Investigation on early formation and evolution of oxide scales on ferritic-martensitic steels in supercritical water *Corrosion Science*, 135, pp. 136-146.
- 2018 Elliott, R., Coley, K., Mostaghel, S., Barati, M. Review of Manganese Processing for Production of TRIP/TWIP Steels, Part 1: Current Practice and Processing Fundamentals *JOM*, 70 (5), pp. 680-690.
- 2018 Kauppi, E.I., Rönkkönen, E.H., Lahtinen, J., Krause, A.O. Promoting effect of H₂S on the performance of ZrO₂ and La₂O₃-ZrO₂ catalysts in biomass gasification gas clean-up *Applied Catalysis A: General*, 556, pp. 172-179.
- 2018 Chu, K., Wang, F., Wang, X.-H., Li, Y.-B., Geng, Z.-R., Huang, D.-J., Zhang, H. Interface design of graphene/copper composites by matrix alloying with titanium *Materials and Design*, 144, pp. 290-303.

- 2018 Bayon, A., Bader, R., Jafarian, M., Fedunik-Hofman, L., Sun, Y., Hinkley, J., Miller, S., Lipiński, W. Techno-economic assessment of solid-gas thermochemical energy storage systems for solar thermal power applications Energy, 149, pp. 473-484.
- 2018 Lee, S.-Y., Lee, M., Lee, S., Cho, S.-S., Seo, M. Optimization of germanium enrichment from waste optical fibers: A validation experiment using a hybrid approach Materialpruefung/Materials Testing, 60 (4), pp. 413-417.
- 2018 Kumar, K., Smith, N.D., Lichtenstein, T., Kim, H. Electrochemical studies of molten sulfates in LiCl-KCl-Na₂SO₄ at 700 °C Corrosion Science, 133, pp. 17-24.
- 2018 Soedarsono, J.W., Permana, S., Hutauruk, J.K., Adhyputra, R., Rustandi, A., Maksum, A., Widana, K.S., Trinopiawan, K., Anggraini, M. Upgrading tantalum and niobium oxides content in Bangka tin slag with double leaching IOP Conference Series: Materials Science and Engineering, 316 (1), art. no. 012052, .
- 2018 Kiyabu, S., Lowe, J.S., Ahmed, A., Siegel, D.J. Computational Screening of Hydration Reactions for Thermal Energy Storage: New Materials and Design Rules Chemistry of Materials, 30 (6), pp. 2006-2017.
- 2018 Squires, L.N., King, J.A., Fielding, R.S., Lessing, P. Isolation of high purity americium metal via distillation Journal of Nuclear Materials, 500, pp. 26-32.
- 2018 Sarafraz, M.M., Jafarian, M., Arjomandi, M., Nathan, G.J. Potential of molten lead oxide for liquid chemical looping gasification (LCLG): A thermochemical analysis International Journal of Hydrogen Energy, 43 (9), pp. 4195-4210.
- 2018 Sadeghimeresht, E., Reddy, L., Hussain, T., Markocsan, N., Joshi, S. Chlorine-induced high temperature corrosion of HVAF-sprayed Ni-based alumina and chromia forming coatings Corrosion Science, 132, pp. 170-184
- 2018 Miskufova, A., Kochmanova, A., Havlik, T., Horvathova, H., Kuruc, P. Leaching of yttrium, europium and accompanying elements from phosphor coatings Hydrometallurgy, 176, pp. 216-228.
- 2018 Zhou, S., Wei, Y., Peng, B., Li, B., Wang, H. Reduction kinetics for Fe₂O₃/NiO-doped compound in a methane atmosphere Journal of Alloys and Compounds, 735, pp. 365-371
- 2018 Shen, L., Li, X., Zhou, Q., Peng, Z., Liu, G., Qi, T., Taskinen, P. Wolframite Conversion in Treating a Mixed Wolframite-Scheelite Concentrate by Sulfuric Acid JOM, 70 (2), pp. 161-167.
- 2018 Ibiapina, V.F., Dos Santos Florentino, U., Afonso, J.C., Gante, V., Vianna, C.A., Mantovano, J.L. Processing of spent zinc-MnO₂ dry cells in various acidic media Quimica Nova, 41 (2), pp. 176-183.
- 2018 Mei, D., Zhao, H., Yan, S. Kinetics model for the reduction of Fe₂O₃/Al₂O₃ by CO in Chemical Looping Combustion Chemical Engineering and Processing: Process Intensification, 124, pp. 137-146.
- 2018 Shah, L.H., Gerlich, A., Zhou, Y. Design guideline for intermetallic compound mitigation in Al-Mg dissimilar welding through addition of interlayer International Journal of Advanced Manufacturing Technology, 94 (5-8), pp. 2667-2678.
- 2018 Flegkas, S., Birkelbach, F., Winter, F., Freiberger, N., Werner, A. Fluidized bed reactors for solid-gas thermochemical energy storage concepts - Modelling and process limitations Energy, 143, pp. 615-623.
- 2018 Mohanty, U.S., Rintala, L., Halli, P., Taskinen, P., Lundström, M. Hydrometallurgical approach for leaching of metals from copper rich side stream originating from base metal production Metals, 8 (1), art. no. 40
- 2018 Bao, S., Hawker, W., Vaughan, J. Scandium Loading on Chelating and Solvent Impregnated Resin from Sulfate Solution Solvent Extraction and Ion Exchange, 36 (1), pp. 100-113.
- 2018 ARACENA, A., SANINO, A., JEREZ, O. Dissolution kinetics of molybdenite in KOH media at different temperatures Transactions of Nonferrous Metals Society of China (English Edition), 28 (1), pp. 1-8.
- 2018 Padilla, R., Moscoso, I., Ruiz, M.C. Mechanism and Kinetics of Stibnite Chloridizing with Calcium Chloride-Oxygen at 500 °C to 650 °C Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, . Article in Press.
- 2018 Pirošková, J., Laubertová, M., Miškuřová, A., Oráč, D. Hydrometallurgical treatment of copper shaft furnace dust for lead recovery World of Metallurgy - ERZMETALL, 71 (1), pp. 37-42.
- 2018 Machulec, B., Bialik, W., Gil, S. Application of the mining industry wastes as raw material for melting of the complex ferrous alloys Archives of Metallurgy and Materials, 63 (2), pp. 975-979
- 2018 Bodziony, T., Kaczmarek, S.M., Tran, V.H., Figiel, P., Biedunkiewicz, A., Leniec, G. Magnetic properties of AISI 316L stainless steel doped with nanocrystalline Ti-B-C powders Materials Research Express, 5 (12), art. no. 126105
- 2018 Kim, S.-W., Jeon, M.K., Park, W., Heo, D.H., Lee, S.-K., Kang, H.W., Choi, E.-Y. Chemical behavior of grey phases in LiCl molten salt for oxide reduction in pyroprocessing Journal of Radioanalytical and Nuclear Chemistry, . Article in Press.
- 2018 Tesfaye, F., Lindberg, D., Hupa, L. The K₂SO₄-CaSO₄ system and its role in fouling and slagging during high-temperature processes Minerals, Metals and Materials Series, Part F2, pp. 133-142.

- 2018 Plešingerová, B., Vadász, P., Kamenský, R., Bounziová, J., Derďák, J., Medveď, D. Spent magnesia-carbon refractory bricks from steel production: Potentiality of MgO-clinker recovery Acta Montanistica Slovaca, 23 (1), pp. 39-45.
- 2018 Grudinsky, P.I., Dyubanov, V.G., Kozlov, P.A. Distillation Separation of the Copper-Smelting Dusts with Primary Recovery of Lead Russian Metallurgy (Metally), 2018 (1), pp. 7-13.
- 2018 Gedgagov, E.I., Zakharyan, S.V., Terenteva, I.V., Serikbay, A.U. Chelating ion-exchanger for fine cleaning of cobalt solutions from nickel impurities Tsvetnye Metally, (3), pp. 14-20.
- 2018 Zhang, Z., Li, W., Zhan, J., Li, G., Zhao, Z. Thermodynamic analysis of the bottom-blown direct reduction of lead sulfate with carbon Journal of Thermal Analysis and Calorimetry, . Article in Press.
- 2018 Reller, C., Mertens, F. The Recycling of Spent Ammonia Borane with HBr/AlBr₃ and Other HX/AIX₃-Based Schemes ChemPlusChem, . Article in Press.
- 2018 Pérez-Tello, M., Parra-Sánchez, V.R., Sánchez-Corrales, V.M., Gómez-Álvarez, A., Brown-Bojórquez, F., Parra-Figueroa, R.A., Balladares-Varela, E.R., Araneda-Hernández, E.A. Evolution of size and chemical composition of copper concentrate particles oxidized under simulated flash smelting conditions Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 49 (2), pp. 627-643.
- 2018 Chiba, A., Koyama, M., Akiyama, E., Nishimura, T. Interstitial carbon enhanced corrosion resistance of Fe-33Mn-xC austenitic steels: Inhibition of anodic dissolution Journal of the Electrochemical Society, 165 (2), pp. C19-C26.
- 2018 Lerchner, J., Volpe, P.O.L., Lanaro, C., Ferrin, K.Y., Costa, F.F., Albuquerque, D.M., Haenschke, F., Mertens, F. A chip calorimetry-based method for the real-time investigation of metabolic activity changes in human erythrocytes caused by cell sickling Journal of Thermal Analysis and Calorimetry, . Article in Press
- 2018 du Preez, S.P., Beukes, J.P., van Zyl, P.G., Tangstad, M., Tiedt, L.R. Silicon Carbide Formation Enhanced by In-Situ-Formed Silicon Nitride: An Approach to Capture Thermal Energy of CO-Rich Off-Gas Combustion Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, . Article in Press.
- 2018 Silva, W.C., De Souza Corrêa, R., Gismonti, P.R., Afonso, J.C., Da Silva, R.S., Vianna, C.A., Mantovano, J.L. Recovery of lead and noble metals after processing printed circuit boards from cell phones by leaching with mixtures containing hydrogen fluoride Quimica Nova, 41 (9), pp. 1025-1032.
- 2018 Ma, J., Sahai, Y. Direct borohydride fuel cells-current status, issues, and future directions Lecture Notes in Energy, 63, pp. 249-283.
- 2018 Squires L.N., King J.A., Fielding R.S., Lessing P. Isolation of high purity americium metal via distillation Journal of Nuclear Materials 500
- 2018 Zhou S., Wei Y., Peng B., Li B., Wang H. Reduction kinetics for Fe₂O₃/NiO-doped compound in a methane atmosphere Journal of Alloys and Compounds 735
- 2018 Flegkas S., Birkelbach F., Winter F., Freiburger N., Werner A. Fluidized bed reactors for solid-gas thermochemical energy storage concepts - Modelling and process limitations Energy 143
- 2017 Renggli C.J., King P.L., Henley R.W., Norman M.D. Volcanic gas composition, metal dispersion and deposition during explosive volcanic eruption on the Moon Geochimica et Cosmochimica Acta 206, pp. 296-311.
- 2017 Sure J., Vishnu D.S.M., Schwandt C. Direct electrochemical synthesis of high-entropy alloys from metal oxides Applied Materials Today 9
- 2017 Henley R.W., Brink F.J., King P.L., Leys C., Ganguly J., Mernagh T., Middleton J., Renggli C.J., Sieber M., Troitzsch U., Turner M. High temperature gas-solid reactions in calc-silicate Cu-Au skarn formation; Ertsberg, Papua Province, Indonesia Contributions to Mineralogy and Petrology 172(11-12)
- 2017 Ta H.D., Seidel-Morgenstern A. Impact of Liquid-Phase Volume Changes on Estimating Reaction Rate Parameters: The Homogeneously Catalyzed Hydrolysis of Methyl Formate Industrial and Engineering Chemistry Research 56(45)
- 2017 Paiva E.J.M., Pajarre R., Kangas P., Koukkari P. Assessment of 1-Dimensional Catalytic Reactors Using Constrained Gibbs Free Energy Minimization Method: Water Gas Shift and Carbon Monoxide Methanation Case Industrial and Engineering Chemistry Research 56(45)
- 2017 Nigl T.P., Smith N.D., Lichtenstein T., Gesualdi J., Kumar K., Kim H. Determination of thermodynamic properties of alkaline earth-liquid metal alloys using the electromotive force technique Journal of Visualized Experiments 129
- 2017 Jaatinen S., Karinen R. Furfural Hydrotreatment Applying Isopropanol as a Solvent: The Case of Acetone Formation Topics in Catalysis 60(17-18)

2017	Taubert F., Schwalbe S., Seidel J., Huttli R., Gruber T., Janot R., Bobnar M., Gumeniuk R., Mertens F., Kortus J.	Thermodynamic characterization of lithium monosilicide (LiSi) by means of calorimetry and DFT-calculations	International Journal of Materials Research 108(11)
2017	Suzuki N., Suzuki R.O., Natsui S., Kikuchi T.	Branched morphology of Nb powder particles fabricated by calciothermic reduction in CaCl_2 -melt	Journal of Physics and Chemistry of Solids 110
2017	Galan I., Elhoweris A., Hanein T., Bannerman M.N., Glasser F.P.	Advances in clinkering technology of calcium sulfoaluminate cement	Advances in Cement Research 29(10)
2017	Suopajarvi H., Dahl E., Kempainen A., Gornostayev S., Koskela A., Fabritius T.	Effect of charcoal and Kraft-lignin addition on coke compression strength and reactivity	Energies 10(11)
2017	Boulesteix C., Gregoire B., Pedraza F.	Oxidation performance of repaired aluminide coatings on austenitic steel substrates	Surface and Coatings Technology 326
2017	Ahmadi E., Rezan S.A., Baharun N., Ramakrishnan S., Fauzi A., Zhang G.	Chlorination Kinetics of Titanium Nitride for Production of Titanium Tetrachloride from Nitrated Ilmenite	48(5)Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science
2017	Choi E.-Y., Jeon M.K., Hur J.-M.	Reoxidation of uranium in electrolytically reduced simulated oxide fuel during residual salt distillation	Journal of Radioanalytical and Nuclear Chemistry 314(1)
2017	Elliott R., Pickles C.A.	Thermodynamic Analysis of the Selective Reduction of a Nickeliferous Limonitic Laterite Ore by Hydrogen	High Temperature Materials and Processes 36(8)
2017	Gutknecht T., Forsgren C., Steenari B.-M.	Investigations into high temperature separation of antimony from metal oxide varistors	Journal of Cleaner Production 162
2017	Simsek I.N.G., Nistal A., Garcia E., Perez-Coll D., Miranzo P., Osendi M.I.	The effect of graphene nanoplatelets on the thermal and electrical properties of aluminum nitride ceramics	Journal of the European Ceramic Society 37(12)
2017	Du K., Zheng K., Chen Z., Zhu H., Gan F., Wang D.	Unusual temperature effect on the stability of nickel anodes in molten carbonates	Electrochimica Acta 245
2017	Chen Z., Ma W., Wei K., Li S., Ding W.	Effect of raw materials on the production process of the silicon furnace	Journal of Cleaner Production 158
2017	Schieber G.L., Stechel E.B., Ambrosini A., Miller J.E., Loutzenhiser P.G.	H_2 splitting via a two-step solar thermoelectrolytic cycle based on non-stoichiometric ceria redox reactions: Thermodynamic analysis	International Journal of Hydrogen Energy 42(30)
2017	Tupala J., Kemell M., Mattinen M., Meinander K., Seppala S., Hatanpaa T., Raisanen J., Ritala M., Leskela M.	Atomic layer deposition of tin oxide thin films from bis[bis(trimethylsilyl)amino]tin(II) with ozone and water	Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films 35(4)
2017	Jeon M.K., Yoo T.-S., Choi E.-Y., Hur J.-M.	Quantitative calculations on the reoxidation behavior of oxide reduction system for pyroprocessing	Journal of Radioanalytical and Nuclear Chemistry 313(1)
2017	Nady H., El-Rabiei M.M., Fathy M., Migahed M.A.	Corrosion Control of Cu-10Al-10Ni and Cu-10Al-10Zn Alloys in Seawater Environment by Some Ethoxylated Tolytriazole Derivatives	Zeitschrift fur Physikalische Chemie 231(6)
2017	Leffler T., Brackmann C., Alden M., Li Z.	Laser-Induced Photofragmentation Fluorescence Imaging of Alkali Compounds in Flames	Applied Spectroscopy 71(6)
2017	Renggli C.J., King P.L., Henley R.W., Norman M.D.	Volcanic gas composition, metal dispersion and deposition during explosive volcanic eruptions on the Moon	Geochimica et Cosmochimica Acta 206
2017	Diaz-Damacillo L., Reyes F., Ingalls A., Mendez C., Plascencia G.	Mass Transfer Model for the De-oxidation of Molten Copper	JOM 69(6)
2017	Torres D.M., Navarro R.C.S., Souza R.F.M., Brocchi E.A.	Chromium Extraction via Chemical Processing of Fe-Cr Alloys Fine Powder with High Carbon Content	Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science 48(3)
2017	Abdollahi A., Ehsani N., Valefi Z., Khalifesoltani A.	SiC Nanoparticles Toughened-SiC/MoSi $_2$ -SiC Multilayer Functionally Graded Oxidation Protective Coating for Carbon Materials at High Temperatures	Journal of Materials Engineering and Performance 26(6)
2017	Uddin M.A., Banas C., Liang C., Pasaogullari U., Recknagle K., Koepfel B., Stevenson J., Singh P.	Design and optimization of chromium getter for SOFC systems through computational modeling	ECS Transactions 78(1)
2017	Fantozzi D., Matikainen V., Uusitalo M., Koivuluoto H., Vuoristo P.	Chlorine-induced high temperature corrosion of Inconel 625 sprayed coatings deposited with different thermal spray techniques	Surface and Coatings Technology 318
2017	Scheele R.D., Casella A.M., McNamara B.K.	Use of Nitrogen Trifluoride to Purify Molten Salt Reactor Coolant and Heat Transfer Fluoride Salts	Industrial and Engineering Chemistry Research 56(19)
2017	Kang J., Lee J.Y.	Production of chalcocite by selective chlorination of chalcopyrite using cuprous chloride	Minerals and Metallurgical Processing 34(2)

2017	Yang J.H., Yoon J.Y., Lee J.H., Cho Y.-Z.	A kaolinite-based filter to capture gaseous cesium compounds in off-gas released during the pyroprocessing head-end process	Annals of Nuclear Energy 103
2017	van der Walt I.J., Jansen A.A., Crouse P.L.	Plasma-Assisted Treatment of Municipal Solid Waste: A Scenario Analysis	Plasma Chemistry and Plasma Processing 37(3)
2017	Villasmil W., Cooper T., Koepf E., Meier A., Steinfeld A.	Coupled concentrating optics, heat transfer, and thermochemical modeling of a 100-kWth higher-temperature solar reactor for the thermal dissociation of ZnO	Journal of Solar Energy Engineering, Transactions of the ASME 139(2)
2017	Santos F.S.D., Lago F.R., Yokoyama L., Fonseca F.V.	Synthesis and characterization of zero-valent iron nanoparticles supported on SBA-15	Journal of Materials Research and Technology 6(2)
2017	Deutsch M., Horvath F., Knoll C., Lager D., Gierl-Mayer C., Weinberger P., Winter F.	High-Temperature Energy Storage: Kinetic Investigations of the CuO/Cu ₂ O Reaction Cycle	Energy and Fuels 31(3)
2017	Zhang Z., Zuo F., Wan C., Dutta A., Kim J., Rensberg J., Nawrodt R., Park H.H., Larrabee T.J., Guan X., Zhou Y., Prokes S.M., Ronning C., Shalaev V.M., Boltasseva A., Kats M.A., Ramanathan S.	Evolution of Metallicity in Vanadium Dioxide by Creation of Oxygen Vacancies	Physical Review Applied 7(3)
2017	Kajan I., Karkela T., Auvinen A., Ekberg C.	Effect of nitrogen compounds on transport of ruthenium through the RCS	Journal of Radioanalytical and Nuclear Chemistry 311(3)
2017	Choi E.-Y., Jeon M.K., Lee J., Kim S.-W., Lee S.K., Lee S.-J., Heo D.H., Kang H.W., Jeon S.-C., Hur J.-M.	Reoxidation of uranium metal immersed in a Li ₂ O-LiCl molten salt after electrolytic reduction of uranium oxide	Journal of Nuclear Materials 485
2017	Abolpour B., Afsahi M.M., Goharrizi A.S., Azizkarimi M.	Simulation of In-Flight Reduction of the Fine Iron Ore Concentrate by Hydrogen	Chemical Product and Process Modeling 12(1)
2017	Simon F.-G., Holm O.	[Exergetic Assessment of Raw Materials Using the Example of Copper, Exergetische Bewertung von Rohstoffen am Beispiel von Kupfer]	Chemie-Ingenieur-Technik 89(1)
2017	Kajan I., Karkela T., Tapper U., Johansson L.-S., Gouello M., Rameback H., Holmgren S., Auvinen A., Ekberg C.	Impact of Ag and NO _x compounds on the transport of ruthenium in the primary circuit of nuclear power plant in a severe accident	Annals of Nuclear Energy 100
2017	Leffler T., Brackmann C., Berg M., Alden M., Li Z.S.	Development of an alkali chloride vapour-generating apparatus for calibration of ultraviolet absorption measurements	Review of Scientific Instruments 88(2)
2017	Sychev A.V., Salina V.A., Babenko A.A., Zhuchkov V.I.	Distribution of boron between oxide slag and steel	Steel in Translation 47(2)
2017	Genc A.	Facile synthesis of ZnO nanostructures and enhancement of their sinterability via short-time cryo-milling	Ceramics International 43(2)
2017	Koc S., Avci A.K.	Reforming of glycerol to hydrogen over Ni-based catalysts in a microchannel reactor	Fuel Processing Technology 156
2017	Kadowaki M., Muto I., Sugawara Y., Ishikawa T., Yoneyama Y., Hara N.	Electrochemical Passivation for Sm ₂ Fe ₁₇ N ₃ Magnetic Powders in Non-Aqueous Solvents	Electrochimica Acta 224
2017	Barbin N., Terentiev D., Alexeev S., Barbina T.	Thermodynamic modelling of liquid-vapour equilibrium and thermophysical properties of molten Pb–Bi systems	Physics and Chemistry of Liquids 55(1)
2017	Berdnikov V.I., Gudim Y.A.	Analysis of the chemical interactions of associates in liquid metal binary solutions	Izvestiya Vysshikh Uchebnykh Zavedenij. Chernaya Metallurgiya 60(5)
2017	Plesingerova B., Vadasz P., Kamensky R., Derdak J., Bounziova J., Dedinska E., Vojtko M.	Post-mortem characterisation of alumina-c refractory bricks with organic bond from steel production: Potentiality of Al ₂ O ₃ - Material recovery	Ceramics - Silikaty 61(3)
2017	Bocan J., Sidorova M., Sofranko M.	Thermodynamic study of metal sulphides conversion to oxides in hydrometallurgy	Metalurgija 56(1-2)
2017	Lee T.-K., Eun H.-C., Choi J.-H., Lee K.-R., Han S.-Y., Park H.-S.	A study on the trapping characteristics of rhenium oxide using Ca(OH) ₂	Journal of Korean Institute of Metals and Materials 55(1)
2017	Verma V., Manoj Kumar B.V.	Tribological characteristics of conventionally sintered TiCN-WC-Ni/Co cermets against cemented carbide	Ceramics International 43(1)
2017	Berdnikov V.I., Gudim Y.A.	Identification of associates of binary metal solutions in analytical form	Izvestiya Vysshikh Uchebnykh Zavedenij. Chernaya Metallurgiya 60(2)

2017	Nishimoto M., Muto I., Sugawara Y., Hara N.	Micro-electrochemical properties of CeS inclusions in stainless steel and inhibiting effects of Ce ³⁺ ions on pitting	Journal of the Electrochemical Society 164(13)
2017	Olsen E., Hansen M., Nygard H.S.	Hydrolysis of molten CaCl ₂ -CaF ₂ with additions of CaO	AIMS Energy 5(6)
2017	Fujima K., Morimoto T., Itoigawa H., Becchaku D.	Development of a process for recycling platinum group metals using molten alkali metal chlorides	Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals 81(4)
2017	Carrillo Pedroza F.R., Soria Aguilar M.J., Sanchez Castillo M.A., Martinez Luevanos A., Picazo Rodriguez N.G.	Adsorption of chromium from steel plating wastewater using blast furnace dust	Revista Internacional de Contaminacion Ambiental 33(4)
2017	Fray D., Schwandt C.	Aspects of the application of electrochemistry to the extraction of titanium and its applications	Materials Transactions 58(3)
2017	Amanov D., Shevko V., Karatayeva G., Serzhanov G.	Thermodynamic analysis of obtaining ferroalloy from silicon-aluminum-containing silica clay	Chemistry and Chemical Technology 11(4)
2017	Salvo C., Aguilar C., Cardoso-Gil R., Medina A., Bejar L., Mangalaraja R.V.	Study on the microstructural evolution of Ti-Nb based alloy obtained by high-energy ball milling	Journal of Alloys and Compounds 720
2017	Suzuki R.O., Noguchi H., Hada H., Natsui S., Kikuchi T.	Reduction of CaTiO ₃ in molten CaCl ₂ As basic understanding of electrolysis	Materials Transactions 58(3)
2017	Gencer E., Agrawal R.	Strategy to synthesize integrated solar energy coproduction processes with optimal process intensification. Case study: Efficient solar thermal hydrogen production	Computers and Chemical Engineering 105
2017	Yang J.H., Han A., Yoon J.Y., Park H.-S., Cho Y.-Z.	A new route to the stable capture and final immobilization of radioactive cesium	Journal of Hazardous Materials 339
2017	Berdnikov V.I., Gudim Y.A.	Identification of associates in solutions with positive deviations from raoult's law	Izvestiya Vysshikh Uchebnykh Zavedenij. Chernaya Metallurgiya 60(3)
2017	Suzuki N., Tanaka M., Noguchi H., Natsui S., Kikuchi T., Suzuki R.O.	Calcium reduction of TiS ₂ in CaCl ₂ -melt	Materials Transactions 58(3)
2017	Haarberg G.M., Qin B., Martinez A.M.	Electrodeposition of indium and tin from molten chloride electrolytes	ECS Transactions 77(11)
2017	Gedgagov E.I., Tarasov A.V., Giganov V.G., Lunkova M.A.	Development of innovative sorption-extraction technology for obtaining high-purity (99.99%) rareearth metal compounds when processing ultimate concentrates (on the example of the light group)	Tsvetnye Metally
2017	Niu G.B., Wang D.P., Yang Z.W., Wang Y.	Microstructure and mechanical properties of Al ₂ O ₃ /TiAl joints brazed with B powders reinforced Ag-Cu-Ti based composite fillers	Ceramics International 43(1)
2017	Chiba A., Nagataki A., Nishimura T.	Electrochemical aspects of interstitial nitrogen in carbon Steel: Passivation in neutral environments	Journal of the Electrochemical Society 164(2)
2016	Rönnlund Ida, Reuter Markus, Horn Susanna, Aho Jatta, Aho Maija, Päällysaho Minna, Ylimäki Laura, Pursula Tiina	Eco-efficiency indicator framework implemented in the metallurgical industry: part 2 - a case study from the copper industry	International Journal of Life Cycle Assessment
2016	Rönnlund Ida, Reuter Markus, Horn Susanna, Aho Jatta, Aho Maija, Päällysaho Minna, Ylimäki Laura, Pursula Tiina	Eco-efficiency indicator framework implemented in the metallurgical industry: part 1 - a comprehensive view and benchmark	International Journal of Life Cycle Assessment 21, pp. 1473-1500.
2016	Nekouee K.A., Khosroshahi R.A.	Preparation and characterization of β-SiAlON/TiN nanocomposites sintered by spark plasma sintering and pressureless sintering	Materials and Design 112
2016	Bracher A., Behrens R., von Harbou E., Hasse H.	Application of a new micro-reactor ¹ H NMR probe head for quantitative analysis of fast esterification reactions	Chemical Engineering Journal 306
2016	Nekouee K.A., Khosroshahi R.A.	Sintering behavior and mechanical properties of spark plasma sintered β-SiAlON/TiN nanocomposites	International Journal of Refractory Metals and Hard Materials 61
2016	Pourasad J., Ehsani N., Khalifesoltani S.A.	Preparation and characterization of SiO ₂ thin film and SiC nanofibers to improve of graphite oxidation resistance	Journal of the European Ceramic Society 36(16)
2016	Roman-Manso B., Chevillotte Y., Osendi M.I., Belmonte M., Miranzo P.	Thermal conductivity of silicon carbide composites with highly oriented graphene nanoplatelets	Journal of the European Ceramic Society 36(16)
2016	Nekouee K.A., Khosroshahi R.A.	Synthesis and properties evaluation of β-SiAlON prepared by mechanical alloying followed by different sintering technique	International Journal of Materials Research 107(12)

	Chen Z., Ma W., Wu J., Wei K., Yang X., Lv G., Xie K., Yu J.	Influence of carbothermic reduction on submerged arc furnace energy efficiency during silicon production	Energy 116
2016	Xie W., Wang N., Qiao Z., Cao Z.	Thermodynamic assessment of the PbO–V ₂ O ₅ system	Calphad: Computer Coupling of Phase Diagrams and Thermochemistry
2016	Davenport T.C., Yang C.-K., Kucharczyk C.J., Ignatowich M.J., Haile S.M.	Maximizing fuel production rates in isothermal solar thermochemical fuel production	Applied Energy 183
2016	Tu R., Li N., Li Q., Zhang S., Zhang L., Goto T.	Effect of microstructure on mechanical, electrical and thermal properties of B ₄ C–HfB ₂ composites prepared by arc melting	Journal of the European Ceramic Society 36(16)
2016	Agrafiotis C., Roeb M., Sattler C.	Exploitation of thermochemical cycles based on solid oxide redox systems for thermochemical storage of solar heat. Part 4: Screening of oxides for use in cascaded thermochemical storage concepts	Solar Energy 139
2016	Tzouganatos N., Wieckert C., Steinfeld A.	A packed-bed solar reactor for the carbothermal zinc production – dynamic modelling and experimental validation	AIChE Journal 62(12)
2016	Garcia E., Nistal A., Osendi M.I., Miranzo P., Mauro J.	Superior Performance of Ablative Glass Coatings Containing Graphene Nanosheets	Journal of the American Ceramic Society 99(12)
2016	Tang D., Yin H., Cheng X., Xiao W., Wang D.	Green production of nickel powder by electro-reduction of NiO in molten Na ₂ CO ₃ –K ₂ CO ₃	International Journal of Hydrogen Energy 41(41)
2016	Senanayake G., Jayasekera S., Bandara A.M.T.S., Koenigsberger E., Koenigsberger L., Kyle J.	Rare earth metal ion solubility in sulphate-phosphate solutions of pH range –0.5 to 5.0 relevant to processing fluorapatite rich concentrates: Effect of calcium, aluminium, iron and sodium ions and temperature up to 80 °C	Minerals Engineering 98
2016	Pourasad J., Ehsani N.	Synthesis of an oxidation-resistant SiC coating on graphite and modeling analysis with thermodynamics calculations	International Journal of Materials Research 107(11)
2016	Khalil Y.F.	Experimental determination of dust cloud combustion parameters of α -AlH ₃ powder in its charged and fully discharged states for H ₂ storage applications	Journal of Loss Prevention in the Process Industries 44
2016	Schmucker E., Petitjean C., Martinelli L., Panteix P.-J., Ben Lagha S., Vilasi M.	Oxidation of Ni-Cr alloy at intermediate oxygen pressures. I. Diffusion mechanisms through the oxide layer	Corrosion Science 111
2016	Hans R., Senanayake G., Dharmasiri L.C.S., Mathes J.A.P., Kim D.J.	A preliminary batch study of sorption kinetics of Cr(VI) ions from aqueous solutions by a magnetic ion exchange (MIEX®) resin and determination of film/pore diffusivity	Hydrometallurgy 164
2016	Connolly J.A.D.	Liquid-vapor phase relations in the Si-O system: A calorically constrained van der Waals-type model	Journal of Geophysical Research E: Planets 121(9)
2016	Kato C., Ishijima Y., Ueno F., Yamamoto M.	The effect of crystal textures on the anodic oxidization of zirconium in a boiling nitric acid solution	Journal of Nuclear Science and Technology 53(9)
2016	Krasikov S.A., Zhilina E.M., Pichkaleva O.A., Ponomarenko A.A., Vedmid' L.B., Zhidovinova S.V., Chentsov V.P.	Effect of the intermetallic compound composition of the character of interphase interactions during aluminothermic coreduction of titanium, nickel, and molybdenum from their oxides	Russian Metallurgy (Metally) 2016(8)
2016	Takacova Z., Havlik T., Kukurugya F., Orac D.	Cobalt and lithium recovery from active mass of spent Li-ion batteries: Theoretical and experimental approach	Hydrometallurgy 163
2016	Xiao J., Qu W., Li W., Zhu P.	Investigation on effect of aggregate on three non-destructive testing properties of concrete subjected to sulfuric acid attack	Construction and Building Materials 115
2016	Xu L., Xiao Y., van Sandwijk A., Zhao Z., Li J., Xu Q., Yang Y.	Zirconium and hafnium separation with molten salt extraction in Sn–Cu–Zr–Hf and Cu–Zr–Hf alloy systems	Separation Science and Technology (Philadelphia) 51(10)
2016	Allen C., Schwandt C., Fray D.J.	Laser welding studies on Ti-6Al-4V in air in conjunction with cathodic protection	Welding in the World 60(4)
2016	Shin Y., Lee T., Lee K., Kim M.	Modeling and simulation of HI and H ₂ SO ₄ thermal decomposers for a 50 NL/h sulfur-iodine hydrogen production test facility	Applied Energy 173
2016	Medvedev A.B.	Equation of state of silicon dioxide with allowance for evaporation, dissociation, and ionization	Combustion, Explosion and Shock Waves 52(4)
2016	Davenport T.C., Yang C.-K., Kucharczyk C.J., Ignatowich M.J., Haile S.M.	Implications of Exceptional Material Kinetics on Thermochemical Fuel Production Rates	Energy Technology 4(6)

2016	Kleynhans E.L.J., Neizel B.W., Beukes J.P., Van Zyl P.G.	Utilisation of pre-oxidised ore in the pelletised chromite pre-reduction process	Minerals Engineering 92
2016	Schaal E., David N., Panteix P.J., Rapin C., Vilasi M., Mathieu S., Brossard J.M., Maad F.	Effect of Zinc Chloride in Ash in Oxidation Kinetics of Ni-Based and Fe-Based Alloys	Oxidation of Metals 85(5-6)
2016	Jeon M.K., Hur J.M., Ahn D.-H.	Introduction of MKZP (Min Ku Zirconium Process) as an alternative to pyroprocessing for used nuclear fuel management	Journal of Radioanalytical and Nuclear Chemistry 308(2)
2016	Muhich C.L., Ehrhart B.D., Al-Shankiti I., Ward B.J., Musgrave C.B., Weimer A.W.	A review and perspective of efficient hydrogen generation via solar thermal water splitting	Wiley Interdisciplinary Reviews: Energy and Environment 5(3)
2016	Kang J., Okabe T.H.	Removal of iron from titanium ore by selective chlorination using $TiCl_4$ under oxygen content atmosphere	International Journal of Mineral Processing 149
2016	Ding X., Guo X.-M.	Study of SiO_2 involved in the formation process of silico-ferrite of calcium (SFC) by solid-state reactions	International Journal of Mineral Processing 149
2016	Bhalerao A.B., Wagh B.G., Bulakhe R.N., Jagdale A.D., Lokhande C.D.	Effect of different modes of electrodeposition on photoelectrochemical cell performance of nanocrystalline Zinc selenide thin films	Advanced Science Letters 22(4)
2016	Li Y.-K., You J.-L., Wang J., Wang M., Ma N., Wei G.-C.	Molar gibbs mixing free energy calculation for a $Na_2O-Al_2O_3-SiO_2$ ternary melt based on the cluster model	Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica 32(3)
2016	Xia L., Liu Z., Taskinen P.A.	Phase equilibria study of Cu-O-ZnO system in various oxygen partial pressures	Ceramics International 42(4)
2016	Harju H., Lehtonen J., Lefferts L.	Steam reforming of n-butanol over Rh/ZrO ₂ catalyst: Role of 1-butene and butyraldehyde	Applied Catalysis B: Environmental 182
2016	Opalka S.M., Zhu T.	Influence of the Si/Al ratio and Al distribution on the H-ZSM-5 lattice and Brønsted acid site characteristics	Microporous and Mesoporous Materials 222
2016	Avarmaa K., Johto H., Taskinen P.	Distribution of Precious Metals (Ag, Au, Pd, Pt, and Rh) Between Copper Matte and Iron Silicate Slag	Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science 47(1)
2016	Lindmayer M.	Simulation of Switching Arcs under Transverse Magnetic Fields for DC Interruption	IEEE Transactions on Plasma Science 44(2)
2016	Enriquez L.C., Munoz-Anton J., Martinez-Val Penalosa J.M.	S-ethane Brayton power conversion systems for concentrated solar power plant	Journal of Solar Energy Engineering, Transactions of the ASME 138
2016	Kheirandish A.R., Nekouee Kh.A., Khosroshahi R.A., Ehsani N.	Self-propagating high temperature synthesis of SiAlON	International Journal of Refractory Metals and Hard Materials 55
2016	Miki T., Chairaksa-Fujimoto R., Maruyama K., Nagasaka T.	Hydrometallurgical extraction of zinc from CaO treated EAF dust in ammonium chloride solution	Journal of Hazardous Materials 302
2016	Hara Y.R.S., Jha A.	Energy efficient separation of magnetic alloy from the carbothermic reduction of Nkana Cu-Co concentrates	Energy Technology 2015: Carbon Dioxide Management and Other Technologies
2016	Scheidema M., Reuter M., Roine A.	Life cycle assessment of metallurgical processes based on physical flowsheet models	REWAS 2016: Towards Materials Resource Sustainability
2016	Cassar D.R.	Crystallization Driving Force of Supercooled Oxide Liquids	International Journal of Applied Glass Science 7(3)
2016	Suzuki R.O., Matsuura F., Natsui S., Kikuchi T.	CO gas production by CO_2 gas decomposition in molten salt electrolysis	ECS Transactions 75(15)
2016	Suzuki N., Tanaka M., Noguchi H., Natsui S., Kikuchi T., Suzuki R.O.	Reduction of TiS_2 by OS process in $CaCl_2$ melt	ECS Transactions 75(15)
2016	Liu C., Yu D., Kirk D.W., Xu Y.	Porous silicon carbide derived from apple fruit with high electromagnetic absorption performance	Journal of Materials Chemistry C 4(23)
2016	Lelievre C., Pickles C.A., Hultgren S.	Plasma-Augmented Fluidized Bed Gasification of Sub-bituminous Coal in CO_2 - O_2 -Atmospheres	High Temperature Materials and Processes 35 (1)
2016	Glasser L., Jenkins H.D.B.	Predictive thermodynamics for ionic solids and liquids	Physical Chemistry Chemical Physics 18(31)
2016	Scheidema M., Reuter M., Roine A.	Life cycle assessment of metallurgical processes based on physical flowsheet models	TMS Annual Meeting
2016	Jeon M.K., Choi Y.T., Lee C.H., Kang D.Y., Kang K.H., Park H.S., Ahn D.-H.	Chlorination reaction kinetics of CsI under cladding hull waste treatment condition: a TGA study	Journal of Radioanalytical and Nuclear Chemistry 307(1)
2016	Chairaksa-Fujimoto R., Maruyama K., Miki T., Nagasaka T.	The selective alkaline leaching of zinc oxide from Electric Arc Furnace dust pre-treated with calcium oxide	Hydrometallurgy 159

2016	Oishi T., Koyama K., Tanaka M.	Electrorefining of silicon using molten salt and liquid alloy electrodes	Journal of the Electrochemical Society 163(14)
2016	Avarmaa K., O'Brien H., Taskinen P.	Equilibria of gold and silver between molten copper and FeO - SiO_2 - Al_2O_3 slag in WEEE smelting at 1300 °C	Advances in Molten Slags, Fluxes, and Salts: Proceedings of the 10th International Conference on Molten Slags, Fluxes and Salts 2016
2016	Nishimoto M., Muto I., Sugawara Y., Hara N.	Microscopic polarization behavior of cerium sulfide inclusions in stainless steel	ECS Transactions 75(52)
2016	Aracena A., Jerez O., Antonucci C.	Senarmontite volatilization kinetics in nitrogen atmosphere at roasting/melting temperatures	Transactions of Nonferrous Metals Society of China (English Edition) 26(1)
2016	Hara Y.R.S., Jha A.	Low temperature sulphidization of Cu-Co slag in the presence of calcium sulphide	Energy Technology 2015: Carbon Dioxide Management and Other Technologies
2016	Kanari N., Menadb N., Diota F., Allaina E., Yvona J.	Phosphate valorization by dry chlorination route	Journal of Mining and Metallurgy, Section B: Metallurgy 52(1)
2016	M.A. Reuter	Digitalizing the Circular Economy - Circular Economy Engineering defined by the metallurgical Internet of Things	2016 TMS EPD Distinguished Lecture, USA, Metallurgical Transactions B (http://link.springer.com/article/10.1007/s11663-016-0735-5)
2016	I. Rönnlund, M.A. Reuter, S. Horn, J. Aho, M. Päällysaho, L. Ylimäki, T. Pursula	Implementation of sustainability indicator framework in the metallurgical industry: Part 2-A case study from the copper industry	International Journal of Life Cycle Assessment (online).
2016	I. Rönnlund, M.A. Reuter, S. Horn, J. Aho, M. Päällysaho, L. Ylimäki, T. Pursula	Sustainability indicator framework implemented in the metallurgical industry: Part 1-A comprehensive view and benchmark	International Journal of Life Cycle Assessment (online).
2016	A. van Schaik, M.A. Reuter	RECYCLING INDICES VISUALIZING THE PERFORMANCE OF THE CIRCULAR ECONOMY	World of Metallurgy – ERZMETALL, 69(4), 201-216.
2016	M.A. Reuter, A. van Schaik	Strategic metal recycling: adaptive metallurgical processing infrastructure and technology are essential for a Circular Economy	RESPONSABILITÉ & ENVIRONNEMENT, AVRIL 2016, 82, 62-66.
2016	Kauppi Inkeri	The effect of H ₂ S on oxidation properties of ZrO ₂ -based biomass gasification gas clean-up catalysts	Doctoral dissertation, Aalto University 2016
2016	Sebastian Wenzel, Dominik A. Weber, Thomas Leichtweiss, Martin R. Busche, Joachim Sann, Jürgen Janek	Interphase formation and degradation of charge transfer kinetics between a lithium metal anode and highly crystalline Li ₇ P ₃ S ₁₁ solid electrolyte	Solid State Ionics 286 (2016) 24-33
2016	Reza Ebrahimi-Kahrizangi, Mohammadreza Kalani Mahabadi, Omid Torabi	An investigation on the mechanochemical behavior of the Ca–Cu–Cu ₂ O–WO ₃ quaternary system to synthesize the Cu–WC nanocomposite powder	International Journal of Refractory Metals and Hard Materials 54 (2016) 75–81
2015	Reuter M.A., van Schaik A.	Product-centric simulation-based design for recycling: Case of LED lamp recycling	Journal of sustainable metallurgy
2015	Kotiranta Tuukka, Horn Susanna, Jansson Kaj, Reuter Markus A.	Towards a "minimum impact" copper concentrator: Sustainability assessment	Procemin 2015
2015	M. Scheidema, M.A. Reuter	Life Cycle Assessment of metals production based on HSC SIM modelling	Materia, 5, 60-63.
2015	M.A. Reuter, A. van Schaik, J. Gediga	Simulation-based design for resource efficiency of metal production and recycling systems, Cases: Copper production and recycling, eWaste (LED Lamps), Nickel pig iron	International Journal of Life Cycle Assessment, 20(5), 671-693.
2015	Merete Tangstad, Kiyoshi Ichihara, Eli Ringdalen	Pretreatment unit in ferromanganese production	Infacon XIV (May 31-June 4, 2015, Kiev, Ukraine)
2015	Eli Ringdalen, Marcelo Rocha, Paulo Figueiredo	Energy consumption during HCFerCr-production at Ferbasa	Infacon XIV (May 31-June 4, 2015, Kiev, Ukraine)
2015	MJ Truex, BD Lee, CD Johnson, NP Qafoku, GV Last, MH Lee, DI Kaplan	Conceptual Model of Iodine Behavior in the Subsurface at the Hanford Site	PNNL-24709
2015	L. Jourdain, T. J. Roberts, M. Pirre, and B. Josse	Modeling the reactive halogen plume from Ambrym volcano and its impact on the troposphere with the CCATT-BRAMS mesoscale model	Atmos. Chem. Phys. Discuss., 15, 35313–35381, 2015
2015	J Cao, J Lu, L Jiang, Z Wang	Oxidation behavior of metallurgical silicon slag under non-isothermal and isothermal conditions	Journal of Thermal Analysis and Calorimetry (2015)

2015	Makkonen Hannu (University of Oulu), Kekki Antti (Aalto), Heikkinen Eetu-Pekka (University of Oulu), Fabritius Timo (University of Oulu), Aromaa Jari (Aalto), Forsen Olof (Aalto)	Characterization and Sulfuric Acid Leaching of Ferrochrome Converter (CRC) Dust	Steel Research International (2015)
2015	DY Kim, HY Ryu, SH Kim, KT Park, SS Cho, MH Han	Demonstration of a High Throughput On-Board Hydrogen Generation Reactor System Using Aluminum Coil as Fuel for a Vehicle	International Journal of Green Energy (2015)
2015	Kemppainen Antti	Limiting phenomena related to the use of iron ore pellets in a blast furnace	Academic dissertation, University of Oulu
2015	C.E. Andraka, A.M. Kruizenga, B.A. Hernandez-Sanchez, E.N. Coker	Metallic Phase Change Material Thermal Storage for Dish Stirling	Energy Procedia volume 69, May 2015, Pages 726–736
2015	M. de las Obras-Loscertales, M.T. Izquierdo, A. Rufas, L.F. de Diego, F. García-Labiano, A. Abad, P. Gayán, J. Adánez	The fate of mercury in fluidized beds under oxy-fuel combustion conditions	Fuel (2015)
2015	J Kang, TH Okabe	Development of a Novel Titania Slag Upgrading Process Using Titanium Tetrachloride	Metallurgical and Materials Transactions B (2015)
2015	R Gilligan, AP Deditius, AN Nikoloski	Leaching of brannerite in the ferric sulphate system. Part 2: Mineralogical transformations during leaching	Hydrometallurgy (2015)
2015	E Kalacheva, Y Taran, T Kotenko, K Hattori, L Kotenko	Volcano-hydrothermal system of Ebeko volcano, Paramushir, Kuril Islands: Geochemistry and solute fluxes of magmatic chlorine and sulfur	Journal of Volcanology and Geothermal Research (2015)
2015	J Tommiska, A Remes, V Vähäkangas	Data Reconciliation of Low Grade Ores and Trace Elements - Gold Balance of Vammala Concentrator	IFAC-Papers OnLine Volume 48, Issue 17, 2015, Pages 108–113
2015	P Calloch, IWM Brown, KJD MacKenzie, JV Hanna	Synthesis and properties of new β -Sialon/TiN composites via a novel AlxTiy intermediate	Ceramics International (2015)
2015	Merete Tangstad, Kiyoshi Ichihara, Eli Ringdalen	PRETREATMENT UNIT IN FERROMANGANESE PRODUCTION	Infacon XIV (May 31-June 4, 2015, Kiev, Ukraine)
2015	Tero Kravtsov	Modal mineralogy calculations by using HSC Geo	Sovellettu mineralogia ja geometallurgia Suomen kaivosteollisuudessa (15-16 October 2015, GTK, Espoo, Finland)
2015	Scheidema Madeleine	The reaction mechanism and operating window for the decomposition of hydrated magnesium sulfate under reducing conditions	Aalto university publication series : doctoral dissertations (2015:120)
2015	P Sinha, A Wade	Assessment of Leaching Tests for Evaluating Potential Environmental Impacts of PV Module Field Breakage	IEEE Journal of Photovoltaics Issue: 99 (2015)
2015	Y Sugawara, T Naruse, T Ebata, I Muto, N Hara	Corrosion Resistance of a Free-Cutting Soft-Magnetic Stainless Steel in Pure Water	MATERIALS TRANSACTIONS (2015)
2015	Plešingerová Beatrice (TU Kosice), Fedoročková Alena (TU Kosice), Jádi Nicolette (TU Kosice), Sučík Gabriel (TU Kosice)	Comparison of the ability of limestone and concrete to remove heavy metal ions from contaminated water	Acta Metallurgica Slovaca 21:3 (2015) 236-246
2015	SH Choi, B Ali, SY Kim, SK Hyun, SJ Seo, KT Park	Fabrication of Ag–SnO ₂ Contact Materials from Gas-Atomized Ag–Sn Powder Using Combined Oxidation and Ball-Milling Process	International Journal of Applied Ceramic Technology (2015)
2015	C Vogel, O Krüger, C Adam (BAM)	Thermochemical treatment of sewage sludge ash with sodium additives under reducing conditions analyzed by thermogravimetry	Journal of Thermal Analysis and Calorimetry (2015)
2015	B Swain, C Mishra, KJ Lee, HS Hong, KS Park, CG Lee	Recycling of GaN, a Refractory eWaste Material: Understanding the Chemical Thermodynamics	International Journal of Applied Ceramic Technology (2015)
2015	KCA Nettleton, AN Nikoloski, M Da Costa	The leaching of uranium from betafite	Hydrometallurgy 157 (2015) 270-279
2015	Christian Vogel, Martin Radtke, Uwe Reinholz, Franz Schäfers, and Christian Adam	Chemical State of Chromium, Sulfur and Iron in Sewage Sludge Ash based Phosphorus Fertilizers	ACS Sustainable Chemistry & Engineering (2015)
2015	Charlotte Parsland, Ann-Charlotte Larsson, Patricia Benito, Guiseppe Fornasari, Jan Brandin	Nickel-substituted bariumhexaaluminates as novel catalysts in steam reforming of tars	Fuel Processing Technology 140 (2015) 1-11

2015	Heidi S. Nygård, Espen Olsen	Molten salt pyrolysis of milled beech wood using an electrostatic precipitator for oil collection	AIMS Energy 3:3 (2015) 284-296
2015	Tommiska Jaana, Remes Antti, Vähäkangas Ville	Data reconciliation of low grade ores and trace elements : gold balance of the Vammala concentrator	IFAC Workshop on Mining, Minerals and Metal Processing (25-28 August 2015, Oulu, Finland)
2015	M Iljana, A Kemppainen, EP Heikkinen, T Fabritius...	A new sophisticated method for evaluating the reduction-softening properties of iron burden materials	METEC & 2nd ESTAD 2015 (15-19 June 2015, Düsseldorf, Germany)
2015	Z Yu, JA Sawada, W An, SM Kuznicki	PtZn-ETS-2: A Novel Catalyst for Ethane Dehydrogenation	AIChE Journal (2015)
2015	M Zablocka-Malicka, P Rutkowski, W Szczepaniak	Recovery of copper from PVC multiwire cable waste by steam gasification	Waste Management (2015)
2015	E Salvioli-Mariani, L Toscani, T Boschetti, D Bersani, M Mattioli	Gold mineralisations in the Canan area, Lepaguare district, east-central Honduras: Fluid inclusions and geochemical constraints on gold deposition	Journal of Geochemical Exploration (2015)
2015	Nitin Kumar, Maryam Shojaee, JJ Spivey	Catalytic bi-reforming of methane: from greenhouse gases to syngas	Current Opinion in Chemical Engineering 9 (2015) 8–15
2015	Yunjian Ma, Keqiang Qiu	Fluorine removal from high-fluorine beryllium ore by roasting and leaching pretreatment	International Journal of Mineral Processing 141 (2015) 1–7
2015	F. García-Labiano, E. García-Díez, L.F. de Diego, A. Serrano, A. Abad, P. Gayán, J. Adánez, J.A.C. Ruíz	Syngas/H ₂ production from bioethanol in a continuous chemical-looping reforming prototype	Fuel Processing Technology 137 (2015) 24–30
2015	Keeyoung Jung, Hoe-Jun Heo, Ju-Hyeok Lee, Yoon-Cheol Park, Chung-Yun Kang	Enhanced corrosion resistance of hypo-eutectic Al–1Mg–xSi alloys against molten sodium attack in high temperature sodium sulfur batteries	Corrosion Science 98 (2015) 748–757
2015	J.X. Chang, D. Wang, T. Liu, G. Zhang, L.H. Lou, J. Zhang	Role of tantalum in the hot corrosion of a Ni-base single crystal superalloy	Corrosion Science 98 (2015) 585–591
2015	Sebastian Wenzel, Thomas Leichtweiss, Dominik Krüger, Joachim Sann, Jürgen Janek	Interphase formation on lithium solid electrolytes—An in situ approach to study interfacial reactions by photoelectron spectroscopy	Solid State Ionics 278 (2015) 98–105
2015	Hyo On Nam, Dane Morgan	Redox condition in molten salts and solute behavior: A first-principles molecular dynamics study	Journal of Nuclear Materials 465 (2015) 224–235
2015	Mohammad Ramezani, Kalpit Shah, Elham Doroodchi, Behdad Moghtaderi	Application of a novel calcium looping process for production of heat and carbon dioxide enrichment of greenhouses	Energy Conversion and Management 103 (2015) 129–138
2015	Milad Roushanafshar, Ning Yan, Karl T. Chuang, Jing-Li Luo	Electrochemical oxidation of sour natural gas over La _{0.4} Ce _{0.6} O _{1.8} –La _{0.4} Sr _{0.6} TiO _{3±δ} anode in SOFC: A mechanism study of H ₂ S effects	Applied Catalysis B: Environmental 176–177 (2015) 627–636
2015	Sanna Tuomi, Noora Kaisalo, Pekka Simell, Esa Kurkela	Effect of pressure on tar decomposition activity of different bed materials in biomass gasification conditions	Fuel 158 (2015) 293-305
2015	V. Duboviks, M. Lomberg, R.C. Maher, L.F. Cohen, N.P. Brandon, G.J. Offer	Carbon deposition behaviour in metal-infiltrated gadolinia doped ceria electrodes for simulated biogas upgrading in solid oxide electrolysis cells	Journal of Power Sources 293 (2015) 912–921
2015	Xu Liu, Cecile Bonifacio, Judith C. Yang, Peter Ercius, Brian Gleeson	Effect of environmental sulfur on the structure of alumina scales formed on Ni-base alloys	Acta Materialia 97 (2015) 41-49
2015	Lu Zhan, Fafa Xia, Qiuyu Ye, Xishu Xiang, Bing Xie	Novel recycle technology for recovering rare metals (Ga, In) from waste light-emitting diodes	Journal of Hazardous Materials 299 (2015) 388-394
2015	C. Pichler, J. Antrekowitsch	Recycling of zinc- and lead-bearing residues with pyrolysis gas	JOM (2015)
2015	H Silva, MG Nielsen, EM Fiordaliso, CD Damsgaard [et al.]	Synthesis and characterization of Fe–Ni/γ-Al ₂ O ₃ egg-shell catalyst for H ₂ generation by ammonia decomposition	Applied Catalysis A: General (2015)

2015	D. Orac , T. Havlik, A. Maul , M. Berwanger	Acidic leaching of copper and tin from used consumer equipment	Journal of Mining and Metallurgy, Section B: Metallurgy (2015)
2015	Swain B, Mishra C, Lee CG, Park KS, Lee KJ	Valorization of GaN based metal-organic chemical vapor deposition dust a semiconductor power device industry waste through mechanochemical oxidation and leaching: A sustainable green process	Environmental Research 140 (2015) 704-713
2015	Bo Yuan, Chun Li, Bin Liang, Li Lv, Hairong Yue, Haoyi Sheng, Longpo Ye, Heping Xie	Extraction of potassium from K-feldspar via the CaCl ₂ calcination route	Chinese Journal of Chemical Engineering (2015)
2015	C.E. Andraka, A.M. Kruienza, B.A. Hernandez-Sanchez, E.N. Coker	Metallic Phase Change Material Thermal Storage for Dish Stirling	Energy Procedia 69 (2015) 726-736
2015	SA Schmidt, Q Balme, N Gemo, N Kumar, K Eränen	Kinetics of ethanol hydrochlorination over γ -Al ₂ O ₃ in a microstructured reactor	Chemical Engineering Science (2015)
2015	Reuter Markus, Matuszewicz Robert, van Schaik Antoinette	Lead, zinc and their minor elements : enablers of a circular economy	Erzmetall 69:3 (2015) 134-148
2015	M Iljana, A Kemppainen, T Paananen, O Mattila	Effect of Adding Limestone on the Metallurgical Properties of Iron Ore Pellets	International Journal of Mineral Processing 141 (2015) 34-43
2015	C Lanzerstorfer	Investigation of the contamination of a fly ash sample during sample preparation by air classification	International Journal of Environmental Science and Technology 12:4 (2015) 1437-1442
2015	YM Lu, J Jiang, C Xia, B Kramm, A Polity, YB He	The influence of oxygen flow rate on properties of SnO ₂ thin films grown epitaxially on c-sapphire by chemical vapor deposition	Thin Solid Films (2015)
2015	Heikki Harju, Juha Lehtonen, Leon Lefferts	Steam- and autothermal-reforming of n-butanol over Rh/ZrO ₂ catalyst	Catalysis Today 244 (2015) 47-57
2015	F Di Lemma, JY Colle, O Beneš, RJM Konings	A separate effect study of the influence of metallic fission products on CsI radioactive release from nuclear fuel	Journal of Nuclear Materials 465 (2015) 499-508
2015	R Gilligan, AN Nikoloski	Leaching of brannerite in the ferric sulphate system Part 1: Kinetics and reaction mechanisms	Hydrometallurgy 156 (2015) 7
2015	S Tuomi, N Kaisalo, P Simell, E Kurkela	Effect of pressure on tar decomposition activity of different bed materials in biomass gasification conditions	Fuel (2015)
2015	K Sipilä, M Bojinov, W Mayir	Effect of chloride and sulfate additions on corrosion of low alloy steel in high-temperature water	Electrochimica acta 173 (2015) 757-770
2015	AM Motoc, IA Tudor, M Petriceanu, V Badilita. Et al.	In-situ synthesis and attachment of colloidal ZnO nanoparticles inside porous carbon structures	Materials Chemistry and Physics (2015)
2015	V Verdingovas, L Müller, MS Jellesen, FB Grumsen, R Ambat	Effect of iodine on the corrosion of Au-Al wire bonds	Corrosion Science 97 (2015) 161-171
2015	Kangas Petteri	Modelling the super-equilibria in thermal biomass conversion : Applications and limitations of the constrained free energy method	Thesis, Åbo Akademi
2015	SP Veetil, LC Pasquier, JF Blais, E Cecchi, S Kentish...	Direct gas–solid carbonation of serpentinite residues in the absence and presence of water vapor: a feasibility study for carbon dioxide sequestration	Environmental Science and Pollution Research (2015)
2015	H Sheng, L Lv, B Liang, C Li, B Yuan, L Ye, H Yue...	Aqueous carbonation of the potassium-depleted residue from potassium feldspar–CaCl ₂ calcination for CO ₂ fixation	Environmental Earth Sciences (2015)
2015	Mocek Piotr	Electricity power generation using process gases from ferrosilicon process	HUTNIK - WIADOMOŚCI HUTNICZE 2015-3
2015	AM Bahmanpour, A Hoadley, A Tanksale	Formaldehyde production via hydrogenation of carbon monoxide in the aqueous phase	Green Chemistry (2015)
2015	C Lund, P Lamberg, T Lindberg	Development of a geometallurgical framework to quantify mineral textures for process prediction	Minerals Engineering (2015)

2015	Parian Mehdi	Development of the mineralogical path for geometallurgical modeling of iron ores	Licentiate thesis / Luleå University of Technology
2015	YM Lu, J Jiang, C Xia, B Kramm, A Polity, Y.B. He, P.J. Klar, B.K. Meyer	The influence of oxygen flow rate on properties of SnO ₂ thin films grown epitaxially on c-sapphire by chemical vapor deposition	This Solid Films (2015)
2015	Jian-Guang Yang, Xu-Liang Zhang, Jian-Ying Yang	Separation of Silver from a Zinc Sulfide Concentrate by a Co-smelting Process	JOM 67:2 (2015) 477-483
2015	ST Mac an Bhaird, P Hemmingway, E Walsh	Bubbling Fluidised Bed Gasification of Wheat Straw–Gasifier Performance Using Mullite as Bed Material	Chemical Engineering Research and Design (2015)
2015	C Zhou, K Shah, E Doroodchi, B Moghtaderi	Equilibrium thermodynamic analyses of methanol production via a novel Chemical Looping Carbon Arrestor process	Energy Conversion and Management 96 (2015) 392–402
2015	Y Ellinger, F Pauzat, O Mousis, A Guilbert-Lepoutre...	Neutral Na in Cometary Tails as a Remnant of Early Aqueous Alteration	The Astrophysical Journal Letters 801:2 (2015)
2015	B Swain, C Mishra, L Kang, KS Park, CG Lee, HS Hong	Recycling process for recovery of gallium from GaN an e-waste of LED industry through ball milling, annealing and leaching	Environmental Research Volume 138, April 2015, Pages 401–408
2015	L Surl, D Donohoue, A Aiuppa, N Bobrowski	Quantification of the depletion of ozone in the plume of Mount Etna	Atmospheric Chemistry and Physics 15 (2015) 2613-2628
2015	Thi Thu Hien-Dinh, Van Tri Luong, Reto Gieré, Tam Tran	Extraction of lithium from lepidolite via iron sulphide roasting and water leaching	Hydrometallurgy 153 (2015) 154-159
2015	J Kihlman, J Sucipto, N Kaisalo, P Simell, J Lehtonen	Carbon formation in catalytic steam reforming of natural gas with SOFC anode off-gas	International Journal of Hydrogen Energy 40:3 (2015)1548-1558
2015	M. A. Reuter, A. van Schaik	Product-Centric Simulation-Based Design for Recycling: Case of LED Lamp Recycling	Journal of Sustainable Metallurgy 1:1 (2015) 4-28
2015	Calloch Pauline	NEW REACTION PATHS FOR ADVANCED SiAlON/TiN COMPOSITES	PhD Thesis, Victoria University of Wellington (2015)
2015	Alejandro Guerra Niehoff, Nicolas Bayer Botero, Anirudh Acharya, Dennis Thomey, Martin Roeb, Christian Sattler, Robert Pitz-Paal	Process modelling and heat management of the solar hybrid sulfur cycle	International Journal of Hydrogen Energy (2015)
2015	Ersin Yazici, Haci Deveci and Arman Ehsani	Recovery of metals from chloride leach solutions of waste of printed circuit boards by adsorption and precipitation	IMPC 2014 Santiago Chile
2015	Asmaa Drif, Nicolas Bion, Rachid Brahmi, Satu Ojala, Laurence Pirault-Roy, Esa Turpeinen, Prem Kumar Seelam, Riitta L. Keiski, Florence Epron	Study of the dry reforming of methane and ethanol using Rh catalysts supported on doped alumina	Applied Catalysis A: General (2015)
2015	CR Yörük, T Meriste, A Trikkel, R Kuusik	Thermo-oxidation characteristics of oil shale and oil shale char under oxy-fuel combustion conditions	Journal of Thermal Analysis and Calorimetry (February 2015)
2015	Heikki Harju, Juha Lehtonen, Leon Lefferts	Steam- and autothermal-reforming of n-butanol over Rh/ZrO ₂ catalyst	Catalysis Today 244 (2015) 47-57
2015	FC Meunier, J Scalbert, F Thibault-Starzyk	Unraveling the mechanism of catalytic reactions through combined kinetic and thermodynamic analyses: Application to the condensation of ethanol	Comptes Rendus Chimie, 2015
2015	Bai-Qian Dai, Xiaojiang Wu, Anthony De Girolamo, John Cashion, Lian Zhang	Inhibition of lignite ash slagging and fouling upon the use of a silica-based additive in an industrial pulverised coal-fired boiler: Part 2. Speciation of iron in ash deposits and separation of magnetite and ferrite	Fuel 139 (2015) 733-745
2015	Takafumi Wakamatsu, Takuya Uchiyama, Shungo Natsui, Tatsuya Kikuchi, Ryosuke O. Suzuki	Solubility of gaseous carbon dioxide in molten LiCl–Li ₂ O	Fluid Phase Equilibria 385 (2015) 48–53
2015	J. M. Hernández Díaz; A. Flores Valdés*; R. Ochoa Palacios	Preparation of Al–Cu alloys by aluminothermic reduction of CuO using submerged powder injection assisted with mechanical agitation: thermodynamic approach and kinetic measurements	International Journal of Cast Metals Research 28:1 (2015) 9-19

2015	DY Kim, HY Ryu, SH Kim, JB Shim	Thermo-mechano-chemical stability of ceramic materials during the electrowinning process using liquid metal electrodes in molten salts	Journal of Nuclear Science and Technology 52:1 (2015)
2015	Vincent Girard, David Chiche, Arnaud Baudot, Delphine Bazer-Bachi, Isabelle Cléménçon, Florent Moreau, Christophe Geantet	Innovative low temperature regenerable zinc based mixed oxide sorbents for synthesis gas desulfurization	Fuel 140 (2015) 453-461
2015	M Radepon, Y Coquinot, K Janssens, JJ Ezrati, Wout De Nolf and Marine Cotte	Thermodynamic and experimental study of the degradation of the red pigment mercury sulfide	Journal of Analytical Atomic 2015
2015	H Srichandan, S Singh, K Blight, A Pathak, DJ Kim	An integrated sequential biological leaching process for enhanced recovery of metals from decoked spent petroleum refinery catalyst: A comparative study	International Journal of Mineral Processing 134 (2015) 66–73
2015	R Gilligan, AN Nikoloski	The extraction of uranium from brannerite—A literature review	Minerals Engineering 71 (2015) 34-48
2015	CM Torres, ME Taboada, TA Graber, OO Herreros	The effect of seawater based media on copper dissolution from low-grade copper ore	Minerals Engineering 71 (2015) 139-145
2015	Joseph D. Lessard, Leonid N. Shekhter, Daniel G. Gribbin, Yuri Blagoveshchensky, Larry F. McHugh	A new technology platform for the production of electronic grade tantalum nanopowders from tantalum scrap sources	International Journal of Refractory Metals and Hard Materials Volume 48, January 2015, Pages 408–413
2015	Drouet Christophe	A comprehensive guide to experimental and predicted thermodynamic properties of phosphate apatite minerals in view of applicative purposes	The Journal of Chemical Thermodynamics 81 (2015) 143–159
2015	EL Berger, LP Keller, DS Lauretta	An experimental study of the formation of cubanite (CuFe ₂ S ₃) in primitive meteorites	Meteoritics & Planetary Science 51:1 (2015)

2014	E. Worrell, M.A. Reuter	Handbook of Recycling	Handbook of Recycling, Elsevier BV, Amsterdam, 595p. (ISBN 978-0-12-396459-5).
2014	VIRGILIO RUBIO-NIEBLAS et al.	TWO-DIMENSIONAL COMPUTATIONAL MODELING OF THE ELECTROKINETIC REMEDIATION OF A COPPER-CONTAMINATED SOIL	DYNA 81:183 (2014) 199-207
2014	KS MWANGI	PHARMACEUTICAL FORMULATION EXCIPIENTS AS CORROSION INHIBITORS FOR LACQUERED TIN PLATED STEEL	Dissertation, University of Nairobi 2014
2014	E Selivanov, R Gulyaeva	Chemistry and kinetics (TG/DTA-MS) of metals carbothermal reduction in the FeS-Ni 3 S 2-CaO system	The Thirteenth Russian - Israeli Bi-National Workshop 2014
2014	OJ Lu-Steffes, L Su, DM Jackson, JH Perepezko	Mo–Si–B Coating for Improved Oxidation Resistance of Niobium	Advanced Engineering Materials (2014)
2014	Mokkala Lasse	Suodattimen simulointi Aspen Plus simulointiohjelmistolla	Lappeenranta University of technology, Bachelor's Thesis
2014	FG Simon, T Meggyes	Effective Cleanup of Groundwater Contaminated with Radionuclides Using Permeable Reactive Barriers	Permeable Reactive Barrier: Sustainable Groundwater Remediation (CRC Press) p. 160
2014	Loukusa henri	Computational module for the calculation of thermochemical equilibria in nuclear fuel	Master's thesis, Aalto University, School of Chemical Technology
2014	SP du Preez, JP Beukes, PG van Zyl	Cr (VI) Generation During Flaring of CO-Rich Off-Gas from Closed Ferrochromium Submerged Arc Furnaces	Metallurgical and Materials Transactions B (2014)
2014	Chen George Z.	The FFC Cambridge process and its relevance to valorisation of ilmenite and titanium-rich slag	Mineral Processing and Extractive Metallurgy (Trans IMM C) 2014
2014	M Thyrel	Spectroscopic characterization of lignocellulosic biomass	Doctoral Thesis, Umeå University
2014	J Ge, L Hu, W Wang, H Jiao, S Jiao	Electrochemical Conversion of CO ₂ into Negative Electrode Materials for Li-Ion Batteries	ChemElectroChem (2014)
2014	C. Lanzerstorfer and R. Neuhold	Residues from single-stage dry de-dusting and desulphurization of sinter plant off-gas: enabling partial recirculation by air classification	International Journal of Environmental Science and Technology (2014)
2014	C Lu, CH Lee, W Zhang, T Nishimura, K Nagashio	Structural and thermodynamic consideration of metal oxide doped GeO ₂ for gate stack formation on germanium	Journal of Applied Physics 116, 174103 (2014)

2014	Jansson Kaj, Kauppi Janne, Kotiranta Tuukka	Towards minimum impact Cu concentrator – A conceptual study	Materia 72:4 (2014) 64-67
2014	TJ Roberts, RS Martin, L Jourdain	Reactive bromine chemistry in Mount Etna's volcanic plume: the influence of total Br, high-temperature processing, aerosol loading and plume–air mixing	Atmospheric Chemistry and Physics (2014)
2014	Drouet Christophe	A Comprehensive Guide to Experimental and Predicted Thermodynamic Properties of Phosphate Apatite Minerals in view of Applicative Purposes	The Journal of Chemical Thermodynamics (2014)
2014	Lamberg Pertti (Luleå UT), Rosenkranz Jan (Luleå UT)	Systematic diagnosis of flotation circuit performance based on process mineralogical methods	International Mineral Processing Symposium IMPS, IV (15-17 October 2014, Kusadasi, Turkey)
2014	E Hryha, L Nyborg	Oxide Transformation in Cr-Mn-Prealloyed Sintered Steels: Thermodynamic and Kinetic Aspects	Metallurgical and Materials Transactions A 45:4 (2014) 1736-1747
2014	Fleming, Darryn; Kruiženga, Alan	Identified Corrosion and Erosion Mechanisms in SCO ₂ Brayton Cycles	Sandia Report SAND2014-15546
2014	E.Y. Yazici, H. Deveci	Ferric sulphate leaching of metals from waste printed circuit boards	International Journal of Mineral Processing 133 (2014) 39-45
2014	YT Shah, TH Gardner	Dry Reforming of Hydrocarbon Feedstocks	Catalysis Reviews (2014)
2014	R. H. Davies J. A. Gisby, A. Dinsdale, M. Tyrer, C. S. Walker, F. P. Glasser	Thermodynamic modelling of phase equilibria in cement systems: multiple sublattice model for solids in equilibrium with non-ideal aqueous phase	Advances in Applied Ceramics (2014)
2014	Kobelke Jens, Bierlich Jörg, Wondraczek Katrin, Aichele Claudia, Pan Zhiwen, Unger Sonja, Schuster Kay and Bartelt Hartmut	Diffusion and Interface Effects during Preparation of All-Solid Microstructured Fibers	Materials 7 (2014) 6879-6892
2014	L. Surl, D. Donohoue, A. Aiuppa, N. Bobrowski, and R. von Glasow	Quantification of the depletion of ozone in the plume of Mount Etna	Atmospheric Chemistry and Physics Discussions 14 (2014) 23639–23680
2014	Ali Mohammad Bahmanpour, Andrew Hoadley, Akshat Tanksale	Critical review and exergy analysis of formaldehyde production processes	Reviews in Chemical Engineering (2014)
2014	Michael Keane, Hui Fan, Minfang Han, Prabhakar Singh	Role of initial microstructure on nickel-YSZ cathode degradation in solid oxide electrolysis cells	International Journal of Hydrogen Energy (2014)
2014	Guikuan Yue, Edouard Asselin	Kinetics of Ferric Ion Reduction on Chalcopyrite and its Influence on Leaching up to 150 °C	Electrochimica Acta (2014)
2014	T. van Haasterecht, C.C.I. Ludding, K.P. de Jong, J.H. Bitter	Toward stable nickel catalysts for aqueous phase reforming of biomass-derived feedstock under reducing and alkaline conditions	Journal of Catalysis 319 (2014) 27-35
2014	Emma Sairanen, Reetta Karinen, Juha Lehtonen	Comparison of Solid Acid-Catalyzed and Autocatalyzed C ₅ and C ₆ Sugar Dehydration Reactions with Water as a Solvent	Catalysis Letters (September 2014)
2014	Manuel Corral Valero and Pascal Raybaud	Stability of Carbon on Cobalt Surfaces in Fischer-Tropsch Reaction Conditions: a DFT Study	Journal of Physical Chemistry C (2014)
2014	Krokstad Magnus	Electrical Resistivity of Industrial SiC-Crusts	Thesis, NTNU
2014	Matthew A. Pasek	Phosphorus as a lunar volatile	Icarus (2014)
2014	C Oikonomou, R Oro, E Hryha, L Nyborg	Effect of heat treatment in air on surface composition of iron-phosphate based soft magnetic composite components	Materials Science and Engineering B 189 (2014) 90-99
2014	Nicholas S. Siefert, Shawn L	Exergy & economic analysis of biogas fueled SOFC systems	Journal of Power Sources (2014)
2014	Maki Matsuka, Kazuki Shigedomi, Tatsumi Ishihara	Comparative study of propane steam reforming in vanadium based catalytic membrane reactor with nickel-based catalysts	International Journal of Hydrogen Energy (2014)
2014	Agnieszka Sobianowska –Turek, Włodzimierz Szczepaniak, Monika Zabłocka-Malicka	Electrochemical evaluation of manganese reducers – recovery of Mn from Zn-Mn and Zn-C battery waste	Journal of Power Sources (2014)

2014	E Huttunen-Saarivirta, VT K	Thermally grown oxide films and corrosion performance of ferritic stainless steels under simulated exhaust gas condensate conditions	Corrosion Science (2014)
2014	Leslie Glasser	Thermodynamic consistencies and anomalies among end-member lanthanoid garnets	The Journal of Chemical Thermodynamics Volume 78, November 2014, Pages 93–98
2014	L Li, S Kim, Z Yang, W Wang, Z Nie, B Chen, J Zhang, Xia G	REDOX FLOW BATTERIES BASED ON SUPPORTING SOLUTIONS CONTAINING CHLORIDE	US 20140199607
2014	ØS Sortland, M Tangstad	Boron Removal from Silicon Melts by H ₂ O/H ₂ Gas Blowing: Mass Transfer in Gas and Melt	Metallurgical and Materials Transactions E (June 2014)
2014	JAKUB ROLEČEK	DESIGN OF NUCLEAR CERAMIC MATERIALS WITH ENHANCED THERMAL CONDUCTIVITY	Master's Thesis, Brno University of Technology
2014	S. Lorentzou, G. Karagiannakis, C. Pagkoura, A. Zygianni, A.G. Konstandopoulos	Thermochemical CO ₂ and CO ₂ /H ₂ O Splitting over NiFe ₂ O ₄ for Solar Fuels Synthesis	Energy Procedia 49 (2014) 1999–2008
2014	NS Siefert, BY Chang, S Litster	Exergy and economic analysis of a CaO-looping gasifier for IGFC–CCS and IGCC–CCS	Applied Energy (2014)
2014	G.J. Puts, L. Crouse	The influence of inorganic materials on the pyrolysis of polytetrafluoroethylene. Part 1: The sulfates and fluorides of Al, Zn, Cu, Ni, Co, Fe and Mn	Journal of Fluorine Chemistry 168 (2014) 260–267
2014	Guikuan Yue, , Oscar G. Olvera, Edouard Asselin	Speciation of the H ₂ SO ₄ -Fe ₂ (SO ₄) ₃ -FeSO ₄ -H ₂ O system and development of an expression to predict the redox potential of the Fe ³⁺ /Fe ²⁺ couple up to 150 °C	Hydrometallurgy (2014)
2014	Juliette Dupré, Philippe Bazin, Olivier Marie, Marco Daturi, Xavier Jeandel, Frédéric Meunier	Understanding the storage function of a commercial NO _x -storage-reduction material using operando IR under realistic conditions	Applied Catalysis B: Environmental (2014)
2014	D. R. Swinbourne	Understanding ferronickel smelting from laterites through computational thermodynamics modelling	Mineral Processing and Extractive Metallurgy (2014)
2014	C Lanzerstorfer	Investigation of the contamination of a fly ash sample during sample preparation by air classification	International Journal of Environmental Science and Technology, May 2014
2014	Conrad L. Bender, Pascal Hartmann, Miloš Vračar, Philipp Adelhelm and Jürgen Janek	On the Thermodynamics, the Role of the Carbon Cathode, and the Cycle Life of the Sodium Superoxide (NaO ₂) Battery	Advanced Energy Materials (2014)
2014	Wei Liu, Honglin Luo, Wenqing Qing, Yongxing Zheng, Kang Yang, Junwei Han	Investigation into Oxygen-Enriched Bottom-Blown Stibnite and Direct Reduction	Metallurgical and Materials Transactions B (April 2014)
2014	Sai Gautam, G., Hari Kumar, K.C.	Elastic, thermochemical and thermophysical properties of rock salt-type transition metal carbides and nitrides: A first principles study	Journal of Alloys and Compounds 587 (2014) 380-386
2014	V Girard, A Baudot, D Chiche, D Bazer-Bachi, C Bounie...	Rational selection of single oxide sorbents for syngas desulfurization 4 regenerable at reduced temperature: Thermochemical calculations 5 and experimental study	Fuel (2014) [Article in print]
2014	C Lu, CH Lee, W Zhang, T Nishimura, K Nagashio and Akira Toriumi	Enhancement of thermal stability and water resistance in yttrium-doped GeO ₂ /Ge gate stack	Applied Physics Letters 104:9 (2014)
2014	Geoff McConohy, Alan Kruiženga	Molten nitrate salts at 600 and 680 °C: Thermophysical property changes and corrosion of high-temperature nickel alloys	Solar Energy 103 (May 2014) 242–252
2014	Yoon-Kyu Yia, Hyun-Soo Kima, Tam Trana, Sung Kil Hongb & Myong Jun Kima	Recovering Valuable Metals from Recycled Photovoltaic Modules	Journal of the Air & Waste Management Association (2014)
2014	H Le, W Sheng-Kai, Z Xiong, X Bai-Qing, W Wang-Ran, et al	Effect of ultrathin GeO _x interfacial layer formed by thermal oxidation on Al ₂ O ₃ capped Ge*	Chin. Phys. B Vol. 23, No. 4 (2014)

2014	VIRGILIO RUBIO-NIEBLAS, MANUEL PEREZ-TELLO, RICHARD A. JACOBS, RONALDO HERRERA -URBINA	Two-dimensional computational modeling of the electrokinetic remediation of a copper-contaminated soil part I: Model validation	Dyna 81:183 (2014) 199-207
2014	Glasser Leslie	Thermodynamics of Inorganic Hydration and of Humidity Control, with an Extensive Database of Salt Hydrate Pairs	Journal of Chemical & Engineering Data (2014)
2014	Joseph D. Lessard , Daniel G. Gibbin, Leonid N. Shekhter	Recovery of Rhenium from Molybdenum and Copper Concentrates during the Looping Sulfide Oxidation Process	International Journal of Refractory Metals and Hard Materials (2014)
2014	Rochim B. Cahyono, Naoto Yasuda, Takahiro Nomura, Tomohiro Akiyama	Optimum temperatures for carbon deposition during integrated coal pyrolysis–tar decomposition over low-grade iron ore for ironmaking applications	Fuel Processing Technology 119 (March 2014) 272–277
2014	M Gasik, A Keski-Honkola, Y Bilotsky, M Friman	Development and optimisation of hydroxyapatite– β -TCP functionally gradated biomaterial	Journal of the Mechanical Behavior of Biomedical Materials 30 (2014) 266–273
2014	Petteri Kangas, Pertti Koukkari and Ilkka Hannula	Modelling Super-Equilibrium in Biomass Gasification With the Constrained Gibbs Energy Method	2013 AIChE Annual Meeting
2014	J Scalbert, F Thibault-Starzyk, R Jacquot, D Morvan, Frederic Meunier	Ethanol condensation to butanol at high temperatures over a basic heterogeneous catalyst: How relevant is acetaldehyde self-aldolization?	Journal of Catalysis 311 (2014) 28-32
2014	Tina Künninger , Andreas C. Gerecke, Andrea Ulrich, Anja Huch, Roger Vonbank, Markus Heeb, Adrian Wichser, Regula Haag, Petra Kunz, Markus Faller	Release and environmental impact of silver nanoparticles and conventional organic biocides from coated wooden façades	Environmental pollution 184 (2014) 464-471
2013	V.V. Alekseyev, E.A. Orlova, F.A. Kozlov, E.V. Varseyev	Evolution of two-layer oxide scale on the steel surface in a lead circuit during NPP operation	International Conference on Fast Reactors and Related Fuel Cycles: Safe Technologies and Sustainable Scenarios; Paris (France); 4-7 Mar 2013
2013	Glasser L.	Thermodynamic estimation: Ionic materials	Journal of Solid State Chemistry 206 (2013) 139-144
2013	Piotr Jarosz	Preparation of Steels and Cast Irons with the Addition of Molybdenum and Vanadium	JOM 65:11 (2013) 1615-1621
2013	Yotamu Stephen Rainford Hara	Study of Reaction Mechanisms for Copper-Cobalt-Iron Sulfide Concentrates in the Presence of Lime and Carbon	JOM 65:11 (2013) 1597-1607
2013	Kangas P, Koukkari P (VTT)	Modelling Super-Equilibrium in Biomass Gasification With the Constrained Gibbs Energy Method	AIChE 2013 Annual Meeting
2013	Jochen Brellochs, Stefan Steiert, Peter Sichler, Tonja Marquard-Möllenstedt, Michael Specht (ZSW)	Machbarkeitsstudie für die Methanerzeugung aus fester Biomasse durch hydrierende Vergasung mit Wasserstoff aus erneuerbarer Energie	Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (ZSW) 2013
2013	TEODOR VELEA, VASILE PREDICA, SANDICA LILIANA GHERGHE, DRAGOS TALOI, LUMINITA MARA, ADRIANA ISPAS, ELENA RUXANDRA CHIURTU	Oxidation of Low Grade Complex Concentrate in Aqueous Medium	Revista de Chimie 64:10 (2013) 1083-1088
2013	P Taskinen, S Patana, P Kobylin, P Latostenmaa	Oxidation Mechanism of Silver Selenide	Oxidation of Metals (2013)
2013	van Swol Frank B.	Predictive Modeling of Reactive Wetting and Metal Joining	Sandia Report SAND2013-8278
2013	Szenay Brian	Modeling Potential Chemical Environments: Implications for Astrobiology	Thesis, University of South Florida

2013	M Ali-Dib, O Mousis, GS Pekmezci, JI Lunine	Influence of the C/O ratio on titanium and vanadium oxides in protoplanetary disks	Astronomy & Astrophysics (2013)
2013	C. Souza, D. Majuste, V.S.T. Ciminelli	Effects of surface properties of activated carbon on the adsorption mechanism of copper cyanocomplexes	Hydrometallurgy (2013)
2013	D Corrales-Pérez, FM Romero	Evaluación de la peligrosidad de jales de zonas mineras de Nicaragua y México y alternativas de solución	Boletín de la Sociedad Geológica Mexicana 65:3 (2013) 427-446
2013	G. Sai Gautam, K.C. Hari Kumar	Elastic, thermochemical and thermophysical properties of rock salt-type transition metal carbides and nitrides: a first principles study	Journal of Alloys and Compounds (2013)
2013	Van Tri Luong, Dong Jun Kang, Jeon Woong An, Duy Anh Dao, Myong Jun Kim, Tam Tran	Iron sulphate roasting for extraction of lithium from lepidolite	Hydrometallurgy (2013) in press
2013	Perkkalainen Terhi	Lyijy (II) kloridin fotofragmentointiin perustuvan mittaustekniikan kalibrointi ja vaihtoehtoisten valonlähteiden kartoitus	Diplomityö, Tampereen teknillinen yliopisto, 2013
2013	Pascal Hartmann, Thomas Leichtweiss, Martin R. Busche, Meike Schneider, Marisa Reich, Joachim Sann, Philipp Adelhelm, and Jürgen Janek	Degradation of NASICON-Type Materials in Contact with Lithium Metal: Formation of Mixed Conducting Interphases (MCI) on Solid Electrolytes	J. Phys. Chem. C, 2013, 117 (41), pp 21064–21074
2013	FJ Moura, HM Veit	PHYSICAL CHEMISTRY CHARACTERIZATION OF PRINTED CIRCUIT BOARD OF MOBILE PHONES	Tecnologia em Metalurgia, Materiais e Mineração 10:3 (2013) 231-238
2013	Dragana Ivšić-Bajčeta, Željko Kamberović, Jelena Rogan, Milorad Ćirković, Toplica Pavlović	Analysis of copper losses throughout weak acid effluent flows generated during off-gas treatment in the New Copper Smelter RTB Bor	1st MME SEE CONGRESS (23-25 May 2013, Belgrade, Serbia)
2013	E Hryha, L Nyborg	Oxide Transformation in Cr-Mn-Prealloyed Sintered Steels: Thermodynamic and Kinetic Aspects	Metallurgical and Materials Transactions A
2013	WeiNa Lia, Rachid Zaffoua, Christopher C Sholvina, Mike L. Perrya and Ying Shea	Vanadium Redox-Flow-Battery Electrolyte Preparation with Reducing Agents	ECS Transactions 53:7 (2013) 93-99
2013	JW Hedenquist, YA Taran	Modeling the Formation of Advanced Argillic Lithocaps: Volcanic Vapor Condensation Above Porphyry Intrusions	Economic Geology 108 (2013) 1523-1540
2013	Joseph D. Lessard, Leonid N. Shekhter, Daniel G. Gribbin, Lawrence F. McHugh	Thermodynamic Analysis of Looping Sulfide Oxidation Production of MoO ₂ from Molybdenite for Energy Capture and Generation	JOM (2013)
2013	Berlanga C., Ruiz JA (Universidad Pública de Navarra)	Study of corrosion in a biomass boiler	Journal of Chemistry (2013)
2013	Ding J (Shenyang Aerospace University)	Investigation of thermodynamic equilibrium of MSWI fly ash during high-temperature treatment	Advanced Materials Research 610-613 (2013) 1871-1875
2013	Pickles, C.A. , Harris, C.T., Peacey, J., Forster, J.	Thermodynamic analysis of the Fe-Ni-Co-Mg-Si-O-H-S-C-Cl system for selective sulphidation of a nickeliferous limonitic laterite ore	Minerals Engineering (2013)
2013	Cecilia Lund	Mineralogical, Chemical and Textural Characterisation of the Malmberget Iron Ore Deposit for a Geometallurgical Model	Doctoral Thesis, Luleå University of Technology
2013	E.Y. Yazici, H. Deveci	Extraction of Metals from Waste Printed Circuit Boards (WPCBs) in H ₂ SO ₄ -CuSO ₄ -NaCl Solutions	Hydrometallurgy (2013)
2013	Franziska Klein, Birte Jache,	Conversion reactions for sodium-ion batteries	Materials Science & Nanotechnology 1:1 (2013)
2013	Glasser Leslie (Curtin University)	Estimation of the Thermodynamics of Ionic Materials	
2013	Ganesh R. Kale, Bhaskar D. Kulkarni	Thermoneutral conditions in dry reforming of ethanol	Asia-Pacific Journal of Chemical Engineering (2013)
2013	Yuhua Duan, Heriberto Pfeiffer, Bingyun Li, Issis C. Romero-Ibarra, Dan Sorescu, David Richard Luebke and J W Halley	CO ₂ capture properties of lithium silicates with different ratios of Li ₂ O/SiO ₂ : an ab initio thermodynamic and experimental approach	Physical Chemistry Chemical Physics (2013)

2013	Sebastian Chong, William Hawker, James Vaughan	Selective reductive leaching of oxidised cobalt containing residue	Minerals Engineering (2013)
2013	Leslie Glasser	Ambient Heat Capacities and Entropies of Ionic Solids: A Unique View Using the Debye Equation	Inorganic Chemistry (2013)
2013	Nurk G (University of Tartu), Huthwelker T (Paul Scherrer Institut), Braun A (Empa), Ludwig C (Paul Scherrer Institut), Lust E (University of Tartu), Struis RPWL (Paul Scherrer Institut)	Redox dynamics of sulphur with Ni/GDC anode during SOFC operation at mid- and low-range temperatures: An operando S K-edge XANES study	Journal of Power Sources 240 (2013) 448–457
2013	Renato Baldan, Rafaela Lisboa Pereira da Rocha, Rafael Bogado Tomasiello, Carlos Angelo Nunes, Alex Matos da Silva Costa, Miguel Justino Ribeiro Barboza, Gilberto Carvalho Coelho, Ruben Rosenthal	Solutioning and Aging of MAR-M247 Nickel-Based Superalloy	Journal of Materials Engineering and Performance (April 2013)
2013	T Tsuchiya, N Yasuda, S Sasaki, N Okinaka, T Akiyama	Combustion synthesis of TiFe-based hydrogen storage alloy from titanium oxide and iron	International Journal of Hydrogen Energy (2013)
2013	F Tesfaye, P Taskinen	Experimental Thermodynamic Study of the Equilibrium Phase AgBi3S5 by an Improved EMF Method	Thermochimica Acta (2013)
2013	Sabrina A. Schmidt, Narendra Kumar, Arne Reinsdorf, Kari Eränen, Johan Wärnå, Dmitry Yu. Murzin, Tapio Salmi	Methyl chloride synthesis over Al ₂ O ₃ catalyst coated microstructured reactor – thermodynamics, kinetics and mass transfer	Chemical Engineering Science (2013)
2013	Le Ge, Atul Verma, Richard Goettler, David Lovett, R. K. Singh Raman, Prabhakar Singh	Oxide Scale Morphology and Chromium Evaporation Characteristics of Alloys for Balance of Plant Applications in Solid Oxide Fuel Cells	Metallurgical and Materials Transactions A 44:1 (2013) 193-206
2013	Ana Maria Martinez, Ole Kjos, Egil Skybakmoen, Asbjørn Solheim, and Geir Martin Haarberg	Extraction of Rare Earth Metals from Nd-based Scrap by Electrolysis from Molten Salts Rare Earth and Nuclear Chemistry	ECS Transactions 50:11 (2013) 453-461
2013	Natal'ya P. Brevnova, Ilya B. Polovov, Mikhail V. Chernyshov, Vladimir A. Volkovich, Boris D. Vasin, and Trevor R. Griffiths	Electronic Absorption Spectra of Niobium Species in Halide Melts New Molten Salts and Ionic Liquids and Their Properties	ECS Transactions 50:11 (2013) 325-338
2013	Ryosuke O. Suzuki, Koya Otake, Takuya Uchiyama, Hiroshi Kinoshita, Norihito Sakaguchi, and Tatsuya Kikuchi	Decomposition of CO ₂ Gas in CaCl ₂ -CaO and LiCl-Li ₂ O Molten Salts Separations and Purification	ECS Transactions 50:11 (2013) 443-450
2013	Nicholas S. Siefert, , Shawn Litster	Exergy and economic analyses of advanced IGCC–CCS and IGFC–CCS power plants	Applied Energy 107 (2013) 315–328
2013	T. R. Muth, Y. Yamamoto, D. A. Frederick, C. I. Contescu, W. Chen, Y. C. Lim, W. H. Peter, Z. Feng	Causal Factors of Weld Porosity in Gas Tungsten Arc Welding of Powder-Metallurgy-Produced Titanium Alloys	JOM (2013)
2013	ALIYA TOLEUOVA, VLADIMIR YUFIT, STEFAAN SIMONS, WILLIAM C. MASKELL and DANIEL J.L. BRETT	A review of liquid metal anode solid oxide fuel cells	Journal of Electrochemical Science and Engineering (2013)
2013	Hervé Toulhoat, Laurent Forti	Valorisation chimique du CO ₂ : les conditions du sens	l'Actualité Chimique 371-372 (2013) 35-49
2013	Reinsalo Ari-Matti	Continuous parameter estimation for online process simulator	Master's Thesis, Aalto University 2013
2013	Anne K. Starace, Judith C. Gomez, Greg C. Glatzmaier	Can particle-stabilized inorganic dispersions be high-temperature heat-transfer and thermal energy storage fluids?	Journal of Materials Science February 2013
2013	VT Luong, DJ Kang, JW An, MJ Kim, T Tran	Factors affecting the extraction of lithium from lepidolite	Hydrometallurgy (2013)
2013	Glasser Leslie	Single-Ion Values for Ionic Solids of Both Formation Enthalpies, ΔfH(298)ion, and Gibbs Formation Energies, ΔfG(298)ion	Inorganic Chemistry (2013)

2013	Brandon J. Hathaway, Masanori Honda, David B. Kittelson, Jane H. Davidson	Steam gasification of plant biomass using molten carbonate salts	Energy 49 (2013) 211-217
2013	Lindberg Daniel (ÅA), Backman Rainer (Sintef), Chartrand Patrice (École Polytechnique), Hupa Mikko (ÅA)	Towards a comprehensive thermodynamic database for ash-forming elements in biomass and waste combustion : Current situation and future developments	Fuel Processing Technology 105 (2013) 129–141
2013	Fiseha Tesfaye, Pekka Taskinen, Markus Aspiala, Dawei Feng	Experimental thermodynamic study of intermetallic phases in the binary Ag–Te system by an improved EMF method	Intermetallics 34 (2013) 56-62
2013	Benedikt Nowak, Philipp Aschenbrenner, Franz Winter	Heavy metal removal from sewage sludge ash and municipal solid waste fly ash — A comparison	Fuel Processing Technology 105 (2013) 195–201
2012	D'Aloia, A., Nikoloski, A.N.	The passivation of iron in ammoniacal solutions containing copper (II) ions	Hydrometallurgy 111-112:1 (2012) 58-64
2012	Yulia V. Meteleva-Fischer, Yongxiang Yang, Rob Boom, Bert Kraaijeveld, Henk Kuntzel	Slag treatment followed by acid leaching as a route to solar-grade silicon	JOM 64:8 (2012) 957-967
2012	Van Nieuwenhove, R.	Development and testing of instruments for Generation IV fuels and materials research at the Halden Reactor Project	IAEA Technical meeting on In-pile testing and instrumentation of Generation IV Fuels and Materials, Halden, 2012-08-21--08-24
2012	M. Vincent Girard	Study of the oxidative regeneration properties of sulphided metal oxides	Diplome de doctorat, l'Universite Claude Bernard Lyon, 2012
2012	Jeon, M.K. , Shin, J.M., Park, J.J., Park, G.I.	Simulation of Cs behavior during the high temperature voloxidation process using the HSC chemistry code	Journal of Nuclear Materials 430:1-3 (2012) 37-43
2012	T Havlik, F Kukurugya, T Vindt, A Miskufova	CALCIUM BEHAVIOR IN EAF STEELMAKING DUST ACIDIC LEACHING	Kammel's Quo Vadis Hydrometallurgy 6, 04. – 07. June 2012, Herlany, Slovakia
2012	Choi, S.-H., Jung, W.-S., Park, J.-H.	Electrical effect of titanium diffusion on amorphous indium gallium zinc oxide	Applied Physics Letters 101:21 (2012)
2012	Nicholas Siefert, Dushyant Shekhawat, Shawn Litster and David Berry	Molten catalytic coal gasification with in situ carbon and sulphur capture	Energy Environ. Sci., 2012,5, 8660-8672
2012	Reginald E. Mitchell	Coal and Biomass Utilization in Solid Oxide Fuel Cells Conversion in SOFC Systems	ECS Transactions 41:12 (2012) 3-28
2012	P Horovpák, J Terpák	The application of service oriented architecture in calculation of thermochemical properties in web service form	Acta Montanistica Slovaca 17:2 (2012) 92-102
2012	BH Park, IK Choi, JM Hur	Study on the Reduction of Rare Earth Oxides by Lithium Metal in a Molten LiCl Salt for a Pyrochemical Processing of Spent Fuels	Journal of Chemical Engineering of Japan 45:11 (2012) 888-892
2012	Singfoong Cheah, Katherine R. Gaston, Yves O. Parent, Mark W. Jarvis, Todd B. Vinzant, Kristin M. Smith, Nicholas E. Thornburg, Mark R. Nimlos, Kimberly A. Magrini-Bair	Nickel cerium olivine catalyst for catalytic gasification of biomass	Applied Catalysis B: Environmental (2012)
2012	Ariane Erickson, C. Hank Rawlins	An Investigation into Solid-State Expansion of Ceramic Materials	Processing and Properties of Advanced Ceramics and Composites IV, Volume 234
2012	Nicholas S. Siefert, Dushyant Shekhawat, Mark W. Smith, Daniel J. Haynes, Richard M. Bergen, Edward H. Robey, Randall S. Gemmen, David A. Berry	Operation of a solid oxide fuel cell on a reformed FAME mixture	Biomass and Bioenergy (2012)
2012	Duan, Yuhua ; Luebke, David ; Pennline, Henry	Efficient Theoretical Screening of Solid Sorbents for CO2 Capture Applications	International Journal of Clean Coal and Energy 1:1 (2012)
2012	Duan, Yuhua ; Zhang, Bo ; Sorescu, Dan C. ; Johnson, Karl ; Majzoub, Eric H ; Luebke, David R.	Density functional theory studies on the electronic, structural, phonon dynamical and thermo-stability properties of bicarbonates MHCO ₃ , M D Li, Na, K	JOURNAL OF PHYSICS: CONDENSED MATTER 24:32 (2012)

2012	Park, Si Jung / Choi, Yoo Youl / Kim, Jun Gyu / Choi, Doo Jin	Growth and mechanism of one-dimensional Al ₂ O ₃ nanostructures grown by chemical vapor deposition from an Al powder source	Journal of Crystal Growth, 361, p.189-194, Dec 2012
2012	Seitaro Kobayashi, Toshiyuki Nohira, Katsutoshi Kobayashi, Kouji Yasuda, Rika Hagiwara, Tetsuo Oishi and Hirokazu Konishi	Electrochemical Formation of Dy-Ni Alloys in Molten LiF-CaF ₂ -DyF ₃	Journal of the Electrochemical Society 159:12 (2012) E193-E197
2012	Martin Roeb, Martina Neises, Nathalie Monnerie, Friedemann Call, Heike Simon, Christian Sattler, Martin Schmücker and Robert Pitz-Paal	Materials-Related Aspects of Thermochemical Water and Carbon Dioxide Splitting: A Review	Materials 5:11 (2012) 2015-2054
2012	C.-J. Chung, Sang-Chul Lee, James R. Groves, Edwin N. Brower, Robert Sinclair, and Bruce M. Clemens	Interfacial Alloy Hydride Destabilization in Mg/Pd Thin Films	Physical Review Letters 108 (2012)
2012	D.S. van Vuuren	Fundamental Reactor Design Considerations for Reducing TiCl ₄ Metallothermally to Produce Ti Powder	Key Engineering Materials, 520, 101-110
2012	Evgeniy Selivanov and Roza Gulyaeva	Crystallization of Iron-Containing Oxide-Sulphide Melts	Crystallization - Science and Technology, Edited by Marcello Rubens Barsi Andreetta, ISBN 978-953-51-0757-6
2012	Hong Youl Ryu, Young Soo An, Bo Yoon Jang, Jin Seok Lee, Hayk H. Nersisyan, Moon Hee Han, Jae-Soo Noh, Jong Hyeon Lee	Formation of high purity Si nanofiber from metallurgical grade Si by molten salt electrorefining	Materials Chemistry and Physics 137:1 (2012) 160-168
2012	Mari K. Næss, David J. Young, Jianqiang Zhang, Jan Erik Olsen and Gabriella Tranell	Active Oxidation of Liquid Silicon: Experimental Investigation of Kinetics	Oxidation of metals (2012)
2012	Marc Rubat du Merac, Ivar E. Reimanis, Charlene Smith, Hans-Joachim Kleebe, Mathis M. Müller	Effect of Impurities and LiF Additive in Hot-Pressed Transparent Magnesium Aluminate Spinel	International Journal of Applied Ceramic Technology (2012)
2012	A.D. Pienaar, J.B. Wagener, P.L. Crouse	Niobium And Tantalum Separation By Gas-Phase Fluorination	International Journal of Mineral Processing 114-117 (2012)7-10
2012	O.J. Lu-Steffes, R. Sakidja, J. Bero, J.H. Perepezko	Multicomponent Coating for Enhanced Oxidation Resistance of Tungsten	Surface and Coatings Technology 207 (2012) 614-619
2012	Hiskey JB	Mechanism and Thermodynamics of Floating Slimes Formation	TT Chen Honorary Symposium on Hydrometallurgy 2012
2012	Yoo Youl Choi, Si Jung Park and Doo Jin Choi	Gas-phase synthesis and growth mechanism of SiC/SiO ₂ core-shell nanowires	CrystEngComm, 2012,14, 1737-1743
2012	Soo-Haeng Cho, Jin-Mok Hur, Jong-Hyeon Lee & Han-Soo Lee	Corrosion behavior of ceramic structural materials in an electrolytic reduction process	Journal of Nuclear Science and Technology 49:8 (2012) 836-844
2012	Collin Blaise	AGR-1 Safety Test Predictions Using the PARFUME code	INL/EXT-12-26014 (May 2012)
2012	Hannu Suopajarvi, Timo Fabritius	Effects of Biomass Use in Integrated Steel Plant – Gate-to-gate Life Cycle Inventory Method	ISIJ International 52:5 (2012) 779-787
2012	Sippola Hannu	Thermodynamic modelling of concentrated sulfuric acid solutions	Calphad 38 (2012) 168-176
2012	Yoo Youl Choi, Si Jung Park, Younghee Kim and Doo Jin Choi	Silica nanowires synthesized from gas by-product of SiC synthesis from alkoxide precursors	CrystEngComm 2012,14, 5552-5557
2012	J.S. Gama, J.B. Wagener, P.L. Crouse	A thermogravimetric study of the reactions of tungsten disilicide with anhydrous hydrogen fluoride and fluorine	Journal of Fluorine Chemistry vol. 139, July 2012, Pages 12–15
2012	A.D. Bas, E.Y. Yazici, H. Deveci	Recovery of silver from X-ray film processing effluents by hydrogen peroxide treatment	Hydrometallurgy 121-124 (2012) 22-27
2012	Janis Grabis, Rein Munter, Yuri Blagoveshchenskiy, Valeri Gorkunov, Leonid Yamshchikov	Plasmochemical process for the production of niobium and tantalum nanopowders	Proceedings of the Estonian Academy of Sciences 61:2 (2012) 137–145
2012	Nebeker Neil (Asarco), Hiskey JB (University of Arizona)	Recovery of Rhenium from Copper Leach Solution by Ion Exchange	Hydrometallurgy 125-126 (2012) 64-68

2012	Jan de Bakker, Joshua LaMarre, John Peacey and Boyd Davis	The Phase Stabilities of Magnesium Hydroxychlorides	Metallurgical and Materials Transactions B (2012)
2012	Grobety, Bernard H. ; Botter, Cedric ; Meier, Mario	Volcanic sulfate aerosols	American Geophysical Union Chapman Conference (Selfoss, Iceland, 10 - 15 June 2012)
2012	FD Doty, DL McCree, GN Doty, LL Holte, JM Doty, and PD Ellis	New Paradigms for Standard Liquid Fuels from CO ₂ , H ₂ O, CH ₄ , and Off-peak Energy	Spring National ACS Meeting, San Diego, 2012
2012	Patrick Littlejohn, James Vaughan	Selectivity of commercial and novel mixed functionality cation exchange resins in mildly acidic sulfate and mixed sulfate-chloride solution	Hydrometallurgy 121-124 (2012) 90-99
2012	Michael Zelenski, Yuri Taran	Volcanic emissions of molecular chlorine	Geochimica et Cosmochimica Acta 87 (2012) 210-226
2012	C. Jiménez-Velasco, F. Nava-Alonso, A. Uribe-Salas CINVESTAV-IPN Unidad Saltillo	Medición de cianuro libre por volumetría en presencia de especies cobre-cianuro. Determinación del punto final visual y potenciométrico	XXI Congreso Internacional de Metalurgia Extractiva "Innovación y Retos en la Metalurgia Extractiva" En Honor a: Carlos Lara Valenzuela 16, 17 y 18 de Mayo de 2012
2012	Matthias Kaindl, Stefan Luidold and Alexander Poscher	Recycling of Rare Earths from Nickel-Metal Hydride Batteries with Special Reference to the Acid Recovery	BHM Berg- und Hüttenmännische Monatshefte 157:1 (2012)20-26
2012	Benedikt Nowak, Sandra Frías Rocha, Philipp Aschenbrenner, Helmut Rechberger, Franz Winter	Heavy metal removal from MSW fly ash by means of chlorination and thermal treatment: Influence of the chloride type	Chemical Engineering Journal 179: January (2012) 178-185
2012	S.H. Cho, S.B. Park, J.H. Lee, J.M. Hur, H.S. Lee	Hot corrosion behavior of ZrO ₂ -MgO coatings in LiCl-Li ₂ O molten salt	Materials Chemistry and Physics 131:3 (2012) 743-751
2012	Johan Sandberg, Mikael Larsson, Chuan Wang, Jan Dahl, Joakim Lundgren	A new optimal solution space based method for increased resolution in energy system optimisation	Applied energy 92:April (2012) 583-592
2012	William Wang, Shwetha Ramkumar ¹ , Danny Wong, Liang-Shih Fan	Simulations and process analysis of the carbonation-calcination reaction process with intermediate hydration	Fuel 92:1 (2012) 94-106
2012	A. Singh, F. Al-Raqom, J. Klausner, J. Petrasch	Production of hydrogen via an Iron/Iron oxide looping cycle: Thermodynamic modeling and experimental validation	International Journal of Hydrogen Energy (2012)
2012	Sato, Sinichi / Yamaguchi, Katsunori	Formation of CaSO ₄ in the CaO-FeOx-Cu ₂ O Slags	High Temperature Materials and Processes 30:4 (2012) 447-449
2012	Ruxandra PĂUNESCU, Ioana GHERGHESCU	Microstructural investigation of a complex cobalt based thermal barrier coating tested by quick thermal shock	U.P.B. Sci. Bull., Series B, Vol. 74, Iss. 1, 2012
2011	Honeyands, T., Jelenich, L.	Calculating the value of iron ores in ironmaking and steelmaking	IRON ORE 2011, Proceedings pp. 431-436
2011	Scheele, R.D., McNamara, B.K., Casella, A.M.	Use of NF ₃ as the fluorinating and oxidizing agent for a fluoride volatility based separations process for used nuclear fuel	Transactions of the American Nuclear Society 105 (2011) 211-212
2011	Orac, D., Havlik, T., Kukurugya, F., Miskufova, A., Takacova, Z.	Leaching of tin and copper from used print circuit boards in hydrochloric acid	Metall 65:5 (2011) 211-217
2011	Pertti Lamberg	Beneficiation technologies simulation with the HSC Chemistry software using data on the mineral liberation extent	Cvetnye metally 10 (2011)
2011	Johan Sandberg	Process integration as a tool for energy systems analysis Application to LKAB in Kiruna	Thesis, Luleå University of Technology
2011	Yukitaka KATO	Innovative Nuclear Energy System using a Concept of Active Carbon Recycling	Bulletin of the Research laboratory for Nuclear Reactors, vol 35 (2011) 21-23
2011	Yuhua Duan and K. Parlinski	Density functional theory study of the structural, electronic, lattice dynamical, and thermodynamic properties of Li ₄ SiO ₄ and its capability for CO ₂ capture	Physical Review B 84:10 (2011)
2011	O. Thomann, M. Pihlatie, J. A. Schuler, O. Himanen and J. Kiviahho	Method for Measuring Chromium Evaporation from SOFC Balance-of-Plant Components	Electrochemical Society Meeting, May 1-6, 2011, Montreal, QC, Canada
2011	Eun-young Kim, Min-seuk Kim, Jae-chun Lee, B.D. Pandey	Selective recovery of gold from waste mobile phone PCBs by hydrometallurgical process	Journal of Hazardous Materials, Volume 198, 30 December 2011, Pages 206-215

2011	Javier Marugán, Juan A. Botas, Mariana Martín, Raúl Molina, Carolina Herradón	Study of the first step of the Mn ₂ O ₃ /MnO thermochemical cycle for solar hydrogen production	International Journal of Hydrogen Energy (in press)
2011	Charikinya Edson	A modelling framework to determine the value proposition of microwave treatment of mineral ores	Thesis, University of Stellenbosch. Faculty of Engineering. Dept. of Process Engineering
2011	Sou Hosokai, Yoshiaki Kasiv	Ironmaking with Ammonia at Low Temperature	Environ. Sci. Technol., 2011, 45 (2), pp 821–826
2011	Yuhua Duan and K. Parlinski	Density functional theory study of the structural, electronic, lattice dynamical, and thermodynamic properties of Li ₄ SiO ₄ and its capability for CO ₂ capture	Phys. Rev. B 84, 104113 (2011)
2011	Judith C. Gomez	High-Temperature Phase Change Materials (PCM) Candidates for Thermal Energy Storage (TES) Applications	NREL/TP-5500-51446
2011	Taufiq Hidayat, Peter C. Hayes and Evgueni Jak	Experimental Study of Ferrous Calcium Silicate Slags: Phase Equilibria at Between 10- 5 atm and 10- 7 atm	Metallurgical and Materials Transactions B (2011)
2011	Lei Zhao, JiCai Feng, XiaoYu Tian, LiXia Zhang and Peng He	Brazing of micrograin-filled quartz fiber reinforced silica composites and Invar using Ag-21Cu-4.5Ti alloy	Chinese Science Bulletin 56:26 /2011) 2869-2873
2011	Jun Shinozaki, Izumi Muto, Tomohiko Omura, Mitsuhiro Numata and Nobuyoshi Hara	Local Dissolution of MnS Inclusion and Microstructural Distribution of Absorbed Hydrogen in Carbon Steel	J. Electrochem. Soc., Volume 158, Issue 9, pp. C302-C309 (2011)
2011	Izumi Muto, Jun Shinozaki, Tomohiko Omura, Mitsuhiro Numata, and Nobuyoshi Hara	Microelectrochemical Investigation of Hydrogen Absorption and Dissolution Behavior of MnS Inclusions in Carbon Steel	ECS Transactions 33:35 (2011) 9-20
2011	Mark LaBarbera, Mark Fedkin, and Serguei Lvov	Liquid Tin-Lead Anode Solid Oxide Fuel Cell Fueled by Coal Operation on Alternative Fuels	ECS Transactions 35:1 (2011) 2725-2734
2011	J. Łabaj	ANALYSIS OF POSSIBILITIES FOR REMOVAL OF TIN FROM LIQUID IRON THROUGH EVAPORATION	Acta Metallurgica Slovaca, Vol. 17, 2011, No. 2, p. 116-122
2011	Y. Sayad-Yaghoubi	Selection of thermodynamic data for a novel carbothermic smelting process for aluminum	JOM 63:5 (2011) 30-34
2011	G. De Micco, A. E. Bohé and H. Y. Sohn	Intrinsic Kinetics of Chlorination of WO ₃ Particles With Cl ₂ Gas Between 973 K and 1223 K (700° C and 950° C)	Metallurgical and Materials Transactions 42B : 2 (2011) 316-323
2011	Kyle JH (Parker CRC), Breuer PL (CSIRO), Bunney KG (CSIRO), Pleysier R (CSIRO), Maya PM (CSIRO)	Review of trace toxic elements (Pb, Cd, Hg, As, Sb, Bi, Se, Te) and their deportment in gold processing. Part 1: Mineralogy, aqueous chemistry and toxicity	Hydrometallurgy 107:3-4 (2011) 91-100
2011	Yukitaka KATO	Innovative Nuclear Energy System using a Concept of Active Carbon Recycling	BULL. RES. LAB. NUCL. REACTOR. Vol.35, 2011, 21-23
2011	Pickles C.A.	Thermodynamic Modeling of Zinc Speciation in Electric Arc Furnace Dust	High Temperature Materials and Processes 30:1-2 (2011) 3-15
2011	Hui Li, Hayk H. Nersisyan, Kyung-Tae Park, Sung-Bin Park, Jeong-Guk Kim, Jeong-Min Lee and Jong-Hyeon Lee	Nuclear-grade zirconium prepared by combining combustion synthesis with molten-salt electrorefining technique	Journal of Nuclear Materials (2011)
2011	H.H. Khoo, J. Bu, R.L. Wong, S.Y. Kuan and P.N. Sharratt (Institute of Chemical and Engineering Sciences, Indonesia)	Carbon capture and utilization: Preliminary life cycle CO ₂ , energy, and cost results of potential mineral carbonation	Energy Procedia volume 4, 2011, Pages 2494-2501 (10th International Conference on Greenhouse Gas Control Technologies)
2011	Glasser Leslie	Thermodynamics of Condensed Phases: Formula Unit Volume, V _m , and the Determination of the Number of Formula Units, Z, in a Crystallographic Unit Cell	Journal of chemical education (2011)
2011	Liyu Li, Soowhan Kim, Wei Wang, M. Vijayakumar, Zimin Nie, Baowei Chen, Jianlu Zhang, Guanguang Xia, Jianzhi Hu, Gordon Graff, Jun Liu, Zhenguo Yang	A Stable Vanadium Redox-Flow Battery with High Energy Density for Large-Scale Energy Storage	Advanced Energy Materials (2011)
2011	FC Pignatale, ST Maddison, V Taquet, G Brooks	The effect of the regular solution model in the condensation of protoplanetary dust	

2011	M.A. Garcia-Lobato, Arturo I. Martinez, M. Castro-Roman, C. Falcony, L. Escobar-Alarcon	Correlation between structural and magnetic properties of sprayed iron oxide thin films	Physica B: Condensed Matter, In Press (2011)
2011	Robin Harvey, Robert Hannah, James Vaughan	Selective precipitation of mixed nickel–cobalt hydroxide	Hydrometallurgy 105:3-4 (2011) 222-228
2011	R. Mathieu, G. Libourel, E. Deloule, L. Tissandier, C. Rapin, R. Podor	Na ₂ O solubility in CaO–MgO–SiO ₂ melts	Geochimica et Cosmochimica Acta 75:2 (2011) 608-628
2011	Niina Koivikko, Tiina Laitinen, Satu Ojala, Satu Pitkäaho, Alexei Kucherov, Riitta L. Keiski	Formaldehyde production from methanol and methyl mercaptan over titania and vanadia based catalysts	Applied Catalysis B: Environmental (2011)
2011	Yuhua Duan	Electronic structural and electrochemical properties of lithium zirconates and their capabilities of CO ₂ capture: A first-principles density-functional theory and phonon dynamics approach	Journal of Renewable and Sustainable Energy 3:1 (2011)
2011	Irina Vishnevetsky, Alexander Berman, Michael Epstein	Features of solar thermochemical redox cycles for hydrogen production from water as a function of reactants' main characteristics	International Journal of Hydrogen Energy, 2011
2010	Christian Adam, Rudolf Brenneis, Burkart Adamczyk, Franz-Georg Simon	Recycling of Waste Materials by Thermochemical Treatment	ISWA World Congress, November 2010, Hamburg, Germany
2010	Korinko P.S.	Zinc Mitigation Interim Report – Thermodynamic Study	SRNL-STI-2010-00473
2010	Edström Curt	Wet etching of optical thin films	Självständigt arbete på avancerad nivå (masterexamen) Högskolan i Jönköping
2010	Kho, T. S.; Swinbourne, D. R.; Blanpain, B.; Arnout, S.; Langberg, D.	Understanding stainless steelmaking through computational thermodynamics Part 1: electric arc furnace melting	Mineral Processing and Extractive Metallurgy 119:1(2010) 1-8
2010	Swinbourne, D, Kho, T, Langberg, D, Blanpain, B and Arnout, S	Understanding stainless steelmaking through computational thermodynamics. Part 2 - VOD converting	Mineral Processing and Extractive Metallurgy 119:2 (2010) 107-115
2010	Swinbourne, D R; Kho, T S; Blanpain, B; Arnout, S; Langberg, D E	Understanding stainless steelmaking through computational thermodynamics: Part 3 - AOD converting	Mineral Processing and Extractive Metallurgy 121:1 (2012) 23-31
2010	Edström Curt	WET ETCHING OF OPTICAL THIN FILMS	Thesis, Jönköping Institute of Technology
2010	Espen Olsen and Sverre Rolseth	Three-Layer Electrorefining of Silicon	Metallurgical and Materials Transactions B Volume 41B:2 (1020) 295-302
2010	Scheepers Emile (Corus), Yang Yongxiang (TU Delft), Adema Allert (TU Delft), Boom Rob (TU Delft), Reuter Markus (Outotec Ausmelt)	Process Modeling and Optimization of a Submerged Arc Furnace for Phosphorus Production	Metallurgical and Materials Transactions 41B:5 (2010) 90-1005
2010	Shogo Osaki, Hiroshi Sakai, and Ryosuke O. Suzuki	Direct Production of Ti–29Nb–13Ta–4.6Zr Biomedical Alloy from Oxide Mixture in Molten CaCl ₂	J. Electrochem. Soc., Volume 157, Issue 8, pp. E117-E121 (2010)
2010	Marin T (Vale-Inco), Utigard T (University of Toronto)	Deoxidation of liquid copper with reducing O ₂ /CH ₄ flames	Metallurgical and Materials Transactions B Volume 41B June 2010 535-542
2010	Karim Ayman M, Su Yu, Sun Junming, Yang Cheng, Strohm James J, King David L, Wang Yong	A comparative study between Co and Rh for steam reforming of ethanol	Applied Catalysis B: Environmental 96:3-4 (2010) 441-448
2010	Matsumoto I, Akiyama T, Nakamura Y, Akiba E	Controlled shape of magnesium hydride synthesized by chemical vapor deposition	Journal of Alloys and Compounds 507:2 (2010) 502-507

2010	Alonso-González O (CINVESTAV), Nava-Alonso F (CINVESTAV), Uribe-Salas A (CINVESTAV), Dreisinger D (U of BC)	Use of quaternary ammonium salts to remove copper–cyanide complexes by solvent extraction	Minerals Engineering 23:10 (2010) 765-770)
2010	Yi Yong Park, Tam Tran, Yeon Ho Lee, Young Il Nam, Gamini Senanayake and Myong Jun Kim	Selective removal of arsenic(V) from a molybdate plant liquor by precipitation of magnesium arsenate	Hydrometallurgy 104:2 (2010) 290-297
2010	Blomberg, T.	A thermodynamic study of the gaseous potassium chemistry in the convection sections of biomass fired boilers	Materials and Corrosion
2010	Kangbi Luo, Chunmei Li, Lan Xiang, Huping Li, Ping Ning	Influence of temperature and solution composition on the formation of calcium sulfates	Particuology, Volume 8, Issue 3, June 2010, Pages 240-244
2010	Christian Adam, Rudolf Brenneis, Burkart Adamczyk, Franz-Georg Simon	Recycling of Waste Materials by Thermochemical Treatment	ISWA World Congress 2010 (15-18 November 2010, Hamburg, Germany)
2010	H Tokoro, S Fujii, Y Kobayashi and Shunsuke Muto	The growth of carbon coating layers on iron particles and the effect of alloying the iron with silicon	Journal of Alloys and Compounds, 2010
2010	Ya. S. Bataev, Yu. A. Zaikov, Yu. A. Lokhmotko, I. B. Polovov, O. I. Rebrin, A. Yu. Chuikin and L. F. Yamshchikov	Chlorination of hafnium dioxide by gaseous chlorine in the presence of Carbon	Russian journal of non-ferrous metals 51:4 (2010)
2010	Kari Valkama	Epäpuhtausmetallien talteenotto sinkkiprosessissa	Master's Thesis, Lappeenranta University of Technology 2010
2010	Rein Munter, Anatoli Parshin, Leonid Yamshchikov, Vladimir Plotnikov, Valeri Gorkunov and Viktor Kober	Reduction of tantalum pentoxide with aluminium and calcium: thermodynamic modelling and scale skilled tests	Proceedings of the Estonian Academy of Sciences 59:3 (2010) 243-252
2010	Roland von Glasow	Atmospheric chemistry in volcanic plumes	PNAS 107:15 (2010) 6594-6599
2010	Yuhua Duan and Dan C. Sorescu	CO2 capture properties of alkaline earth metal oxides and hydroxides: A combined density functional theory and lattice phonon dynamics study	Journal of Chemical Physics 133:7 (2010)
2010	S Hosokai, Y Kasiwaya, K Matsui, N Okinaka and Tomohiro Akiyama	Ironmaking with Ammonia at Low Temperature	Environmental Science & Technology, 2. Dec. 2010
2010	Themelis NJ (Columbia University)	Chlorine sources, sinks and impacts in WTE power plants	NAWTEC18 (May 11-13, 2010, Orlando, Florida, USA)
2010	Yahua Duan	Theoretical Screening Good Sorbents for CO2 Separation: Application to alkali and alkaline- earth oxides and hydroxides	AIChE 2010
2010	Y. A. TARAN, N. R. VARLEY, S. INGUAGGIATO, E. CIENFUEGOS	Geochemistry of H2- and CH4-enriched hydrothermal fluids of Socorro Island, Revillagigedo Archipelago, Mexico. Evidence for serpentinization and abiogenic methane	Geofluids 10:4 (2010) 542-555

2010	S. Steinlechner and J. Antrekowitsch (university of Leoben)	SIMULTANEOUS RECOVERY OF VARIOUS METALS FROM ZINC CONTAINING RESIDUES ON A REDUCING METAL BATH	Lead-Zinc 2010 (October 3-6, 2010, Vancouver, Canada)
2010	Wightman E (JKMRC), Evans C (JKMRC), Bradshaw D (JKMRC), Manlapig E (JKMRC)	Predicting Flotation Response from Liberation Information	International Mineral Processing Congress (IMPC) XXV (Brisbane, QLD, Australia, 6-10 September 2010)
2010	Robin Harvey, Robert Hannah and James Vaughan	Selective precipitation of mixed nickel-cobalt hydroxide	Hydrometallurgy
2010	Elizabeth J. Opila, Jim Smith, Stanley R. Levine, Jonathan Lorincz and Marissa Reigel	Oxidation of TaSi ₂ -Containing ZrB ₂ -SiC Ultra-High Temperature Materials	The Open Aerospace Engineering Journal, 2010, 3, 41-51
2010	Latimer Cole	Simulation optimisation	http://www.mineralsprocessing.com.au/
2010	Peters A.P.H.	Concise chemical thermodynamics	CRC Cress 2010
2010	Pickles C.A.	Thermodynamic modelling of the formation of zinc–manganese ferrite spinel in electric arc furnace dust	Journal of Hazardous Materials 179 (2010) 309-317
2010	Siwei Wang, Fei Zhao, Lingling Zhang, Kyle Brinkman and Fanglin Chen	Stability and electrical property of Ba _{1-x} Sr _x Ce _{0.8} Y _{0.2} O _{3-d} high temperature proton conductor	Journal of Alloys and Compounds 506:1 (2010) 263-267
2010	Daniel J. Haynes, Andrew Campos, David A. Berry, Dushyant Shekhawat, Amitava Roy, James J. Spivey	Catalytic partial oxidation of a diesel surrogate fuel using an Ru-substituted pyrochlore	Catalysis Today 155 (2010) 84-91
2010	Daniel J. Haynes, Andrew Campos, Mark W. Smithd, David A. Berry, Dushyant Shekhawat, James J. Spivey	Reducing the deactivation of Ni-metal during the catalytic partial oxidation of a surrogate diesel fuel mixture	Catalysis Today 154 (2010) 210–216
2010	T. Havlik., D. Orac, M. Petranikova, A. Miskufova, F. Kukurugya, Z. Takacova	Leaching of copper and tin from used printed circuit boards after	Journal of Hazardous Materials 183 (2010) 866–873
2009	Michael J. Apted, David G. Bennett, Timo Saario	A Review of Evidence for Corrosion of Copper by water	Swedish Radiation Safety Authority (SSM) Report 2009:30
2009	Izumi Muto, Shimpei Kurokawa, and Nobuyoshi Hara	Microelectrochemical Investigation of Anodic Polarization Behavior of CrS Inclusions in Stainless Steels	J. Electrochem. Soc., Volume 156, Issue 11, pp. C395-C399 (2009)
2009	L. Medvecký, R. Štulajterová and R. Bureša	Structural evaluation of brushite/gelatine coatings on graphite substrate	Surface and Coatings Technology Volume 203, Issue 24, 15 September 2009, Pages 3754-3762
2009	Maryam Mahmoudkhani and David W. Keith	Low-energy sodium hydroxide recovery for CO ₂ capture from atmospheric air—Thermodynamic analysis	International Journal of Greenhouse Gas Control Volume 3, Issue 4, July 2009, Pages 376-384
2009	L Glasser, HDB Jenkins	Single-Ion Entropies, S _{ion} ^o , of Solids—A Route to Standard Entropy Estimation	Inorg. Chem., 2009, 48 (15), pp 7408–7412
2009	Leslie Glasser* and Franca Jones	Systematic Thermodynamics of Hydration (and of Solvation) of Inorganic Solids	Inorg. Chem., 2009, 48 (4), pp 1661–1665
2009	Cho, Yung-Zun; Yang, Hee-Chul; Lee, Han-Soo; Kim, In-Tae	Characteristic of oxidation reaction of lanthanide chlorides in oxygen-eutectic salt bubble column	Hwahak Konghak (2009), 47(4), 465-469
2009	Cho, Yung-Zun; Yang, Hee-Chul; Park, Gil-Ho; Lee, Han-Soo; Kim, In-Tae	Treatment of a waste salt delivered from an electrorefining process by an oxidative precipitation of the rare earth elements	Journal of Nuclear Materials (2009), 384(3), 256-261
2009	Contreras, M. L.; Arostegui, J. M.; Armesto, L.	Arsenic interactions during co-combustion processes based on thermodynamic equilibrium calculations	Fuel (2009), 88(3), 539-546
2009	Djosic, M. S.; Miskovic-Stankovic, V. B.; Kacarevic-Popovic, Z. M.; Jokic, B. M.; Bibic, N.; Mitric, M.; Milonjic, S. K.; Jancic-Heinemann, R.; Stojanovic, J.	Electrochemical synthesis of nanosized monetite powder and its electrophoretic deposition on titanium	Colloids and Surfaces, A: Physicochemical and Engineering Aspects (2009), 341(1-3), 110-117; ISSN: 0927-7757

- 2009 Feris KP, Ramsey PW, Gibbons SM, Frazar C, Rillig MC, Moore JN, Gannon JE, Holben WE. Hyporheic microbial community development is a sensitive indicator of metal contamination ENVIRONMENTAL SCIENCE & TECHNOLOGY, (15 AUG 2009) Volume 43, Number 16, pp. 6158-6163.
- 2009 Gomez, B.; Jimenez-Suarez, A.; Gordo, E. Oxidation and tribological behaviour of an Fe-based MMC reinforced with TiCN particles International Journal of Refractory Metals & Hard Materials (2009), 27(2), 360-366 CODEN: IRMME3; ISSN: 0958-0611
- 2009 Kouno, Shinji; Shirakawa, Naoki; Yoshida, Yoshiyuki; Umeyama, Norio; Tokiwa, Kazuyasu; Watanabe, Tsuneo The synthesis under controlled oxygen partial pressure and the characterization of a layered perovskite system Sr₂V_{1-x}MoxO₄ Journal of Physics: Condensed Matter (2009), 21(28), 285601/1-285601/6
- 2009 Mevissen, Nora; Schulzke, Tim; Unger, Christoph A.; Mac an Bhaird, Sean Thermodynamics of autothermal wood gasification Environmental Progress & Sustainable Energy (2009), 28(3), 347-354
- 2009 Ogasawara, Tsuneharu; Duarte da Fonseca, Marta; Pinto, Vinicius Bemfica Barreira; Santos, Shirleny Fontes; Franca, Silvia Cristina Alves; Costa, Fernanda Paes de Figueiredo Thermodynamic analysis of the hydrothermal synthesis of leucite from analcime by means of ion-exchange in potassium aqueous solutions Congresso Anual da ABM (2009), 64th, 15153/1-15153/12
- 2009 Petrasch, Joerg Osch, Philippe; Steinfeld, Aldo Dynamics and control of solar thermochemical reactors CHEMICAL ENGINEERING JOURNAL, (1 JAN 2009) Volume 145, Number 3, pp. 362-370
- 2009 Pickles, C. A. Thermodynamic modelling of the multiphase pyrometallurgical processing of electric arc furnace dust Minerals Engineering (2009), 22(11), 977-985
- 2009 Runkel, M.; Sturm, P. Pyrite roasting boost Sulphur (2009), 322, 42-46; ISSN: 0039-4890
- 2009 Runkel, M.; Sturm, P. Pyrite roasting, an alternative to sulphur burning JOURNAL OF THE SOUTH AFRICAN INSTITUTE OF MINING AND METALLURGY, (AUG 2009) Volume 109, Number 8, pp. 491-496.
- 2009 Simonov, Yu. A. (Reprint); Kritskii, A. A.; Tomashov, V. A.; Rychkov, V. N. Study of the process of MgO regeneration from products of its sintering with zircon RUSSIAN JOURNAL OF NON-FERROUS METALS, (OCT 2009) Volume 50, Number 5, pp. 457-460
- 2009 Stoots, Carl M. (Reprint); O'Brien, James E.; Herring, J. Stephen Syngas Production via High-Temperature Coelectrolysis of Steam and Carbon Dioxide JOURNAL OF FUEL CELL SCIENCE AND TECHNOLOGY, (FEB 2009) Volume 6, Number 1,
- 2008 Åkre Torjus Electrowinning of Cobalt from Chloride Solutions: Anodic Deposition of Cobalt Oxide on DSA® Doktoravhandling ved NTNU, ISSN 1503-8181; 2008:101
- 2008 Ao, Xianquan; Wang, Hua; Wei, Yonggang Comparative study on the reaction of methane over a ZnO bed in the absence and presence of CO₂ Journal of Natural Gas Chemistry (2008), 17(1), 81-86; ISSN: 1003-9953
- 2008 Ao, Xianquan; Wang, Hua; Wei, Yonggang Study on the thermochemical cyclic system for hydrogen and synthesis gas production in molten salt using solar process heat Taiyangneng Xuebao (2008), 29(12), 1528-1533; ISSN: 0254-0096
- 2008 Ao, Xian-quan; Wang, Hua; Wei, Yong-gang Thermodynamic analysis of the thermochemical cyclic system for methane conversion in molten salt Tianranqi Huagong (2008), 33(2), 1-5, 10
- 2008 Ban, Lili; Liu, Zhonghua; Yong, Qilong; Chen, Wen Thermodynamic analysis on a new de-coppering process in pyro-refining of lead bullion Youse Jinshu, Yelian Bufen (2008), (1), 15-17; ISSN: 1007-7545
- 2008 Fu, Zhi-qiang; Zhou, Jiabin; Wang, Cheng-biao; Tang, Chun-he; Liang, Tong-xiang; Zhao, Hong-sheng; Robin, Jean-charles Thermodynamic analysis of chemical vapor deposition process for SiC/SiO₂ graded composite coating Cailiao Gongcheng (2008), (6), 68-71
- 2008 Hiroshi Sakai, Yuichi Oka and Ryosuke O. Suzuki Synthesis of Ti-6Al-4V Alloy by the Electrolysis of Molten CaCl₂+CaO Journal of the Japan Institute of Metals Vol. 72 (2008), No. 12 pp.921-927
- 2008 Getman, Rachel B.; Schneider, William F. Thermodynamics of Environment-Dependent Oxygen Chemisorption on Pt (111) JOURNAL OF PHYSICAL CHEMISTRY C, (3 JUL 2008) Volume 112, Number 26, pp. 9559-9572
- 2008 Hatami, S.; Hryha, E.; Nyborg, L.; Nilsson, D. Modelling of sintering atmosphere and microstructure development of chromium alloyed steel Powder Metallurgy Progress (Kosice, Slovakia) (2008), 8(2), 115-120
- 2008 Haynes, Daniel J.; Berry, David A.; Shekhawat, Dushyant; Spivey, James J. Catalytic partial oxidation of n-tetradecane using pyrochlores: Effect of Rh and Sr substitution CATALYSIS TODAY, (31 JUL 2008) Volume 136, Number 3-4, pp. 206-213
- 2008 Horng, Rong-Fang; Huang, Hui-Hui; Lai, Ming-Pin; Wen, Chih-Sheng; Chiu, Wei-Cheng Characteristics of hydrogen production by a plasma-catalyst hybrid converter with energy saving schemes under atmospheric pressure International Journal of Hydrogen Energy (2008), 33(14), 3719-3727
- 2008 Pickles, C. A. Thermodynamic analysis of the selective carbothermic reduction of electric arc furnace dust Journal of Hazardous Materials (2008), 150(2), 265-278

- 2008 Pickles, C. A. Thermodynamic analysis of the separation of zinc and lead from electric arc furnace dust by selective reduction with metallic iron Separation and Purification Technology (2008), 59(2), 115-128
- 2008 Sekula, Felix; Molnar, Frantisek; Schmiedl, Juraj; Szentirmai, Zsolt A method of treating the leaching residue from Sered nickel plant stockpile REWAS 2008--Global Symposium on Recycling, Waste Treatment and Clean Technology, Proceedings, Cancun, Mexico, Oct. 12-15, 2008 (2008), 751-759.
- 2008 Shao, Jingai; Yan, Rong; Chen, Hanping; Wang, Baowen; Lee, Dong Ho; Liang, David Tee Pyrolysis characteristics and kinetics of sewage sludge by thermogravimetry Fourier transform infrared analysis Energy & Fuels (2008), 22(1), 38-45
- 2008 Stefanova, V.; Trifonov, Y. Phase Composition of Spinel Melts Obtained during Flash Smelting of the Mineral Chalcopyrite RUSSIAN JOURNAL OF NON-FERROUS METALS, (JUN 2008) Volume 49, Number 3, pp. 148-155.
- 2008 Tsai, Huan-Liang; Wang, Chi-Sheng Thermodynamic equilibrium prediction for natural gas dry reforming in thermal plasma reformer Journal of the Chinese Institute of Engineers (2008), 31(5), 891-896
- 2008 Turpeinen, E.; Raudaskoski, R.; Pongracz, E.; Keiski, R. L. Thermodynamic analysis of conversion of alternative hydrocarbon-based feedstocks to hydrogen International Journal of Hydrogen Energy (2008), 33(22), 6635-6643
- 2008 Zivanovic, V. D.; Grujic, S. R.; Stojanovic, J. N.; Nikolic, J. D. A study of the primary crystallization of a mixed anion silicate glass JOURNAL OF NON-CRYSTALLINE SOLIDS, (1 AUG 2008) Volume 354, Number 31, pp. 3694-3704
- 2007 Eun, H. C.; Cho, Y. J.; Yang, H. C.; Park, H. S.; Kim, E. H.; Kim, I. T. Study on the oxidizing reaction of rare-earth chlorides (CeCl₃ and PrCl₃) in LiCl-KCl eutectic salt by O₂ injection Journal of Radioanalytical and Nuclear Chemistry (2007), 274(3), 621-624
- 2007 Fu, Zhi-qiang; Tang, Chun-he; Liang, Tong-xiang; Li, Zi-qiang; Wang, Cheng-biao; Zhou, Jia-bin Thermodynamic analysis of chemical vapor deposition process for ZrC coating Yuanzineng Kexue Jishu (2007), 41(3), 297-300
- 2007 Lee Dong Ho; Yang Haiping; Yan Rong; Liang David Tee Prediction of gaseous products from biomass pyrolysis through combined kinetic and thermodynamic simulations FUEL, (FEB 2007) Volume 86, Number 3, pp. 410-417.
- 2007 Liu, Ronghui; Ma, Wenhui; Wang, Hua; Yu, Jie; Yang, Bin; Dai, Yongnian Thermodynamic analysis on synthesis process of La_{1-x}Sr_xCr_{1-y}Mn_yO_{3-d} by solid reaction method Xiyou Jinshu (2007), 31(1), 86-91 ISSN: 0258-7076
- 2007 Liukkonen, Matti; Friman, Michael; Nakamoto, Masashi; Hamalainen, Marko; Holappa, Lauri Assessment of surface energy functions for solid elements Helsinki University of Technology Publications in Materials Science and Metallurgy (2007), TTK-MT-191, i-iii, 1-56; ISSN: 1455-2329
- 2007 Medri, V. ; Brach, M.; Bellosi, A. Corrosion of pressureless sintered ZrB₂-MoSi₂ composite in H₂SO₄ aqueous JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, (2007) Volume 27, Number 2-3, pp. 1357-1360
- 2007 Pickles, C. A. Thermodynamic analysis of the selective reduction of electric arc furnace dust by carbon monoxide High Temperature Materials and Processes (Tel Aviv, Israel) (2007), 26(1), 79-91
- 2007 Pickles, C. A. Thermodynamic analysis of the selective reduction of electric arc furnace dust by hydrogen Canadian Metallurgical Quarterly (2007), 46(2), 125-138
- 2007 Wiinikka, H.;Gebart, R.;Bom Influence of fuel ash composition on high temperature aerosol formation in fixed bed combustion of woody biomass pellets Fuel, Vol 86, No 1, pp 181-193
- 2007 Zivanovic, Vladimir D. The crystallisation of calcium phosphate glass containing vanadium oxide CERAMICS-SILIKATY, (2007) Volume 51, Number 2, pp. 112-118.
- 2006 Abanades, S.;Charvin, P.;Flamant, G.;Neveu, P.; Screening of water-splitting thermochemical cycles potentially attractive for hydrogen production by concentrated solar... Energy, Vol 31, No 14, pp 2805-2822
- 2006 Aitchison, S.H. and Marcus, S. Film Uniformity in Atomic Layer Deposition* Chem. Vap. Deposition, Vol 12, pp 13-24
- 2006 Bachman, LM On-Line Coolant Chemistry Analysis B-MT (SPME)-17, Bettis Atomic Power Laboratory (BAPL), West Mifflin, PA
- 2006 Blomberg, T. Which are the right test conditions for the simulation of high temperature alkali corrosion in biomass combustion? Materials and Corrosion, Vol 57, No 2
- 2006 Brach, M.; Medri, V.; Bellosi, A. Corrosion of pressureless sintered ZrB₂-MoSi₂ composite in H₂SO₄ aqueous solution Journal of the European Ceramic Society (2006), Volume Date 2007, 27(2-3), 1357-1360 CODEN: JECSEJ; ISSN: 0955-2219
- 2006 Burkes D E (Reprint); Moore J J Combustion synthesis of a functionally graded NiTi-TiC_x composite JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME, (JUL 2006) Vol. 128, No. 3, pp. 445-450. ISSN: 0094-4289.
- 2006 Burkes, Douglas E.; Moore, John J. Combustion Synthesis of a Functionally Graded NiTi-TiC_x Composite Journal of Engineering Materials and Technology (2006), 128(3), 445-450
- 2006 Burkes, Douglas E.; Moore, John J. Combustion synthesis of a functionally graded NiTi-TiC_x composite Journal of Engineering Materials and Technology (2006), 128(3), 445-450 ISSN: 0094-4289
- 2006 Chen, Y.;Urquidí-Macdonald, M.;Macdonald, D.D.; The electrochemistry of zirconium in aqueous solutions at elevated temperatures and pressures Journal of Nuclear Materials, Vol 348, No 1, pp 133-147
- 2006 Courtheoux, L.;Amariei, D.;Rossignol, S.;Kappenstein, C.; Thermal and catalytic decomposition of HNF and HAN liquid ionic as propellants Applied Catalysis B, Environmental, Vol 62, No 3, pp 217-225

- 2006 David, N.;Cartigny, Y.;Belmonte, T.;Fiorani, J.M.;Vilasi, M.; Thermodynamic description of the Cr-Nb-Si isothermal section at 1473K Intermetallics, Vol 14, No 4, pp 464-473
- 2006 Diaz-Somoano, M.;Unterberger, S.;Hein, K.R.G.; Prediction of trace element volatility during co-combustion processes Fuel, Vol 85, No 7, pp 1087-1093
- 2006 Edmonds, M.;Gerlach, T.M.; The airborne lava-seawater interaction plume at Kilauea Volcano, Hawai'i Earth and Planetary Science Letters, Vol 244, No 1, pp 83-96
- 2006 Flamant, G.;Kurtcuoglu, V.;Murray, J.;Steinfeld, A.; Purification of metallurgical grade silicon by a solar process Solar Energy Materials and Solar Cells, Vol 90, No 14, pp 2099-2106
- 2006 Frangini, S. Testing procedure to obtain reliable potentiodynamic polarization curves on type 310S stainless steel in alkali carbonate melts Materials and Corrosion, Vol 57, No 4
- 2006 FRAY, Derek, John ; SCHWANDT, Carsten ; DOUGHTY, Greg; IMPROVED ELECTRO-DEOXIDATION METHOD, APPARATUS AND PRODUCT PAT PATENT COOPERATION TREATY APPLICATION
- 2006 Gonzalez, J. A.; Ruiz, M. del C. Bleaching of kaolins and clays by chlorination of iron and titanium Applied Clay Science (2006), 33(3-4), 219-229
- 2006 Harris, D.J.;Roberts, D.G.;Henderson, D.G.; Gasification behaviour of Australian coals at high temperature and pressure Fuel, Vol 85, No 2, pp 134-142
- 2006 Haslam, J.J. and Lange, F.F. Journal J. Am. Ceram. Soc, Vol 89, No 6, pp 2043-2050
- 2006 He, C. and Kunz, HR and Fenton, JM Selective Oxidation of CO in Hydrogen under Fuel Cell Operating Conditions Journal of the Electrochemical Society, Vol 148, No 10, pp 1116-1124
- 2006 Herreros, O.;Quiroz, R.;Longueira, H.;Fuentes, G.;Vinals, J.; Leaching of djurleite in Cu²⁺/Cl⁻ media Hydrometallurgy, Vol 82, No 1, pp 32-39
- 2006 Herrmann, S.D. and Li, S.X. and Simpson, M.F. and Phongikaroon, S. Electrolytic Reduction of Spent Nuclear Oxide Fuel as Part of an Integral Process to Separate and Recover Actinides from Fission Products Separation Science and Technology, Vol 41, No 10, pp 1965-1983
- 2006 Hills, MP and Schwandt, C. and Kumar, RV Oxide Ion Conduction in Indium-Oxide-Substituted Calcium Zirconate Journal of the Electrochemical Society, Vol 153, No 10, pp 189-194
- 2006 Holcomb, G.R.;Alman, D.E.; The effect of manganese additions on the reactive evaporation of chromium in Ni-Cr alloys Scripta Materialia, Vol 54, No 10, pp 1821-1825
- 2006 Houteit, A.;Mahzoul, H.;Ehrburger, P.;Bernhardt, P.;Legare, P.;Garin, F.; Production of hydrogen by steam reforming of methanol over copper-based catalysts: The effect of cesium doping Applied Catalysis A, General, Vol 306, No ., pp 22-28
- 2006 Jarrah, N.A.;van Ommen, J.G.;Lefferts, L.; Mechanistic aspects of the formation of carbon-nanofibers on the surface of Ni foam: A new microstructured catalyst... Journal of Catalysis, Vol 239, No 2, pp 460-469
- 2006 Jerndal, E.; Mattisson, T.; Lyngfelt, A. Thermal analysis of chemical-looping combustion Chemical Engineering Research and Design (2006), 84(A9), 795-806
- 2006 Jögi, I. and Aarik, J. and Laan, M. and Lu, J. and Kukli, K. and Käãmbre, H. and Sajavaara, T. and Uustare, T. Effect of preparation conditions on properties of atomic layer deposited TiO₂ films in Mo--TiO₂--Al stacks Thin Solid Films, Vol 510, No 1-2, pp 39-47
- 2006 Kaila, R.K.;Krause, A.O.I.; Autothermal reforming of simulated gasoline and diesel fuels International Journal of Hydrogen Energy, Vol 31, No 13, pp 1934-1941
- 2006 Ke, K.;Gunji, A.;Mori, H.;Tsuchida, S.;Takahashi, H.;Ukai, K.;Mizutani, Y.;Sumi, H.;Yokoyama, M.;Waki, K.; Effect of oxide on carbon deposition behavior of CH₄ fuel on Ni/ScSZ cermet anode in high temperature SOFCs Solid State Ionics, Vol 177, No 5, pp 541-547
- 2006 Kida, T. and Rahman, M.M. and Nagano, M. Preparation of Phosphor Films by a Layer-by-Layer Deposition Method Journal of the Electrochemical Society, Vol 153, No 4, pp 82-85
- 2006 Kim, S.H. and Joung, C.Y. and Kim, H.S. and Lee, Y.W. and Ryu, H.J. and Sohn, D.S. and Kim, D.J. Fabrication method and thermal conductivity assessment of molybdenum-precipitated uranium dioxide pellets Journal of Nuclear Materials, Vol 352, No 1-3, pp 151-156
- 2006 Kuchar, D.;Fukuta, T.;Onyango, M.S.;Matsuda, H.; Sulfidation treatment of copper-containing plating sludge towards copper resource recovery Journal of Hazardous Materials, Vol 138, No 1, pp 86-94
- 2006 Kugai, J.;Subramani, V.;Song, C.;Engelhard, M.H.;Chin, Y.H.; Effects of nanocrystalline CeO₂ supports on the properties and performance of Ni-Rh bimetallic catalyst for oxidative... Journal of Catalysis, Vol 238, No 2, pp 430-440
- 2006 Li, H. and Vereecke, G. and Maex, K. and Froyen, L. Gaseous Impurities in Co Silicidation: Impact and Solutions Journal of the Electrochemical Society, Vol 148, No 6, pp 344-354
- 2006 Lin, S.;Harada, M.;Suzuki, Y.;Hatano, H.; Continuous experiment regarding hydrogen production by Coal/CaO reaction with steam (II) solid formation Fuel, Vol 85, No 7, pp 1143-1150

2006	Lindstrom, R. and Maurice, V. and Zanna, S. and Klein, L. and Groult, H. and Perrigaud, L. and Cohen, C. and Marcus, P.	Thin films of vanadium oxide grown on vanadium metal: oxidation conditions to produce V ₂ O ₅ films for Li-intercalation applications and characterisation by XPS, AFM, RBS/NRA	Surf. Interface Anal, Vol 38, pp 6-18
2006	Luo, J.G.;Acoff, V.L.;	Processing gamma-based TiAl sheet materials by cyclic cold roll bonding and annealing of elemental titanium and aluminum...	Materials Science & Engineering A, Vol 433, No 1, pp 334-342
2006	Lyons, T.	Different Countries, Same Science Classes: Students' experiences of school science in their own words	International Journal of Science Education, Vol 28, No 6, pp 591-613
2006	Martin, R. S.; Mather, T. A.; Pyle, D. M.	High-temperature mixtures of magmatic and atmospheric gases	Geochemistry, Geophysics, Geosystems (2006), 7(4), No pp. given
2006	Mas-Guindal, M.J.;Contreras, L.;Turrillas, X.;Vaughan, G.B.M.;Kvick, A.;Rodriguez, M.A.;	Self-propagating high-temperature synthesis of TiC-WC composite materials	Journal of Alloys and Compounds, Vol 419, No 1, pp 227-233
2006	McIntosh, K.S.;Auer, D.;Koch, K.R.;Eksteen, J.J.;	Integrating pyrometallurgy and robotic systems engineering: Fully automated fire assay laboratory for rapid PGE analysis	Minerals Engineering, Vol 19, No 3, pp 219-231
2006	Monteverde, F.	Beneficial effects of an ultra-fine α -SiC incorporation on the sinterability and mechanical properties of ZrB ₂	Applied Physics A: Materials Science & Processing, Vol 82, No 2, pp 329-337
2006	Murray, J.P.;Flamant, G.;Roos, C.J.;	Silicon and solar-grade silicon production by solar dissociation of Si ³ N ⁴	Solar Energy, Vol 80, No 10, pp 1349-1354
2006	Nikulshina, V. and Hirsch, D. and Mazzotti, M. and Steinfeld, A.	CO ₂ capture from air and co-production of H ₂ via the Ca(OH) ₂ -CaCO ₃ cycle using concentrated solar power--Thermodynamic analysis	Energy, Vol 31, No 12, pp 1379-1389
2006	Nikulshina, V.;Hirsch, D.;Mazzotti, M.;Steinfeld, A.;	CO ₂ capture from air and co-production of H ₂ via the Ca(OH) ₂ -CaCO ₃ cycle using concentrated solar...	Energy, Vol 31, No 12, pp 1715-1725
2006	Nishiwaki, A.;Oku, T.;	Atomic structures and formation mechanism of boron nitride nanotubes and nanohorns synthesized by arc-melting LaB ₆ ...	Journal of the European Ceramic Society, Vol 26, No 4, pp 435-441
2006	Pfeffer, M.A.;Rietmeijer, F.J.M.;Brearley, A.J.;Fischer, T.P.;	Electron microbeam analyses of aerosol particles from the plume of Poas Volcano, Costa Rica and comparison with...	Journal of Volcanology and Geothermal Research, Vol 152, No 1, pp 174-188
2006	Poor, Ralph Paul ; Barbee, Garry W. ; Verhoff, Stephen Harry ; Brug, James Edward;	Vacuum carburizing with naphthene hydrocarbons	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2006	Puolakka, K.J.;Juutilainen, S.;Krause, A.O.I.;	Combined CO ₂ reforming and partial oxidation of n-heptane on noble metal zirconia catalysts	Catalysis Today, Vol 115, No 1, pp 217-221
2006	Robau-Sanchez, A. and Rosa, F.C. and Aguilar-Pliego, J. and Aguilar-Elguézabal, A.	On the reaction mechanism of the chemical activation of Quercus Agrifolia char by alkaline hydroxides	Journal of Porous Materials, Vol 13, No 2, pp 123-132
2006	Scheepers, E.;Adema, A.T.;Yang, Y.;Reuter, M.A.;	The development of a CFD model of a submerged arc furnace for phosphorus production	Minerals Engineering, Vol 19, No 10, pp 1115-1125
2006	SMIT, Jan, Tjeerd ; STEYL, Johann Du Toit;	LEACHING PROCESS IN THE PRESENCE OF HYDROCHLORIC ACID FOR THE RECOVERY OF A VALUE METAL FROM AN ORA	PAT PATENT COOPERATION TREATY APPLICATION
2006	Sohn, H.Y.;Savic, M.;Padilla, R.;Han, G.;	A novel reaction system involving BaS and BaSO ₄ for converting SO ₂ to elemental sulfur without generating pollutants:...	Chemical Engineering Science, Vol 61, No 15, pp 5082-5087
2006	SRODA, S. and TUURNA, S.	Laboratory scale tests on corrosion behavior of boiler materials in simulated combustion atmospheres (EU Project--OPTICORR)	Materials and corrosion(1995), Vol 57, No 3, pp 244-251
2006	Suzuki, R.O. and Ohta, K.	Chromia Coating on Iron Formed from CrO ₃ in Ozone	Oxidation of Metals, Vol 65, No 1, pp 39-52
2006	T M Børseth ; B G Svensson ; A Yu Kuznetsov;	Annealing study of hydrothermally grown ZnO wafers	Physica Scripta, Vol 2006, No T126, pp 10-14
2006	Tong, Lirong; Reddy, Ramana G.	The processing of nanopowders by thermal plasma technology	JOM (2006), 58(4), 62-66
2006	Tromans, D.;	Solubility of crystalline and metamict zircon: A thermodynamic analysis	Journal of Nuclear Materials, Vol 357, No 1, pp 221-233
2006	Wang, S.;Wang, S.;	Exergy analysis and optimization of methanol generating hydrogen system for PEMFC	International Journal of Hydrogen Energy, Vol 31, No 12, pp 1747-1755
2006	Wu, Q. L.; Xiang, L.; Jin, Y.	Influence of CaCl ₂ on the hydrothermal modification of Mg(OH) ₂	Powder Technology (2006), 165(2), 100-104
2006	Yang, H.;Yan, R.;Chen, H.;Lee, D.H.;Liang, D.T.;Zheng, C.;	Pyrolysis of palm oil wastes for enhanced production of hydrogen rich gases	Fuel Processing Technology, Vol 87, No 10, pp 935-942

2006	Yang, J.H. and Song, K.W. and Kim, K.S. and Jung, Y.H.	A fabrication technique for a UO ₂ pellet consisting of UO ₂ grains and a continuous W channel on the grain boundary	Journal of Nuclear Materials, Vol 353, No 3, pp 202-208
2006	Ünal, S. and Çalık, M. and Ayas, A. and Coll, R.K.	A review of chemical bonding studies: needs, aims, methods of exploring students' conceptions, general knowledge claims and students' alternative conceptions	Research in Science & Technological Education, Vol 24, No 2, pp 141-172
2006	Yong Jun Chen ; Bo Chi ; Denise C Mahon ; Ying Chen;	An effective approach to grow boron nitride nanowires directly on stainless-steel substrates	Nanotechnology, Vol 17, No 12, pp 2942-2946
2006	Yong Jun Chen ; Hong Zhou Zhang ; Ying Chen;	Pure boron nitride nanowires produced from boron triiodide	Nanotechnology, Vol 17, No 3, pp 786-789
2006	Zaim, H. and Liu, Y. and Murray, SN and Alton, GD	A negative surface ionization source for RIB generation	AIP Conference Proceedings, Vol 576, No 1, pp 244-249
2006	Zhao, H. and Wang, J. and Zhu, Z. and Wang, J. and Pan, W.	Mechanical properties and microstructure of in situ synthesized ZrB ₂ -ZrN _{1-x} composites	Journal of Materials Science, Vol 41, No 6, pp 1769-1773
2005	Albina, D.O.	Theory AND Experience ON Corrosion OF Waterwall AND Superheater Tubes OF Waste-TO-Energy Facilities	
2005	Alvarez, FJ and Pasquevich, DM and Bohé, AE	Formation of magnesium spinel in the presence of LiCl	Journal of Materials Science, Vol 40, No 5, pp 1193-1200
2005	Babilo, P. and Haile, S.M.	ENHANCED SINTERING OF YTTRIUM-DOPED BARIUM ZIRCONATE BY ADDITION OF ZnO	Journal of the American Ceramic Society, Vol 88, No 9, pp 2362-2368
2005	Babilo, P. and Haile, S.M.	J ournal	J. Am. Ceram. Soc, Vol 88, No 9, pp 2362-2368
2005	BOREN, Richard M. ; HAMMEL, Charles F.;	METAL OXIDE PROCESSING METHODS AND SYSTEMS	PAT PATENT COOPERATION TREATY APPLICATION
2005	Botes, F.G.;	The effect of a higher operating temperature on the Fischer-Tropsch/HZSM-5 bifunctional process	Applied Catalysis A: General, Vol 284, No 1, pp 21-29
2005	Bretado, M.E.;Guzman Velderrain, V.;Lardizabal Gutierrez, D.;Collins-Martinez, V.;Ortiz, A.L.;	A new synthesis route to Li ⁴ SiO ⁴ as CO ² catalytic/sorbent	Catalysis Today, Vol 107, No ., pp 863-867
2005	Carlsson, M. and Garc(\i)a-Garc(\i)a, F.J. and Johnsson, M. and Gulian, A.	Synthesis of La X Ce 1- X B 6 whiskers	Journal of Materials Science, Vol 40, No 11, pp 2991-2994
2005	Casas, J.M.;Crisostomo, G.;Cifuentes, L.;	Speciation of the Fe(II)-Fe(III)-H ² SO ⁴ -H ² O system at 25 and 50 °C	Hydrometallurgy, Vol 80, No 4, pp 254-264
2005	Castro, S.H.;Baltierra, L.;	Study of the surface properties of enargite as a function of pH	International Journal of Mineral Processing, Vol 77, No 2, pp 104-115
2005	Cellier, C.;Clef, D.L.;Mateos-Pedrero, C.;Ruiz, P.;	Influence of the co-feeding of CO, H ² , CO ² or H ² O in the partial oxidation of methane over Ni and Rh supported...	Catalysis Today, Vol 106, No 1, pp 47-51
2005	Demoulin, O. and Navez, M. and Ruiz, P.	The Activation of a Pd/\$\gamma\$-alumina Catalyst During Methane Combustion: Investigation of the Phenomenon and of Potential Causes	Catalysis Letters, Vol 103, No 1, pp 149-153
2005	Deurwaarder, E. and Boerrigter, H. and Mozaffarian, H. and Rabou, L. and van der Drift, A.	Methanation of MILENA product gas for the production of bio-SNG	14th European Biomass Conference & Exhibition, pp 17-21
2005	Dinh, L.N.;Grant, D.M.;Schildbach, M.A.;Smith, R.A.;Siekhaus, W.J.;Balazs, B.;Leckey, J.H.;Kirkpatrick, J.R.;McLean, W.;	Kinetic measurement and prediction of the hydrogen outgassing from the polycrystalline LiH/Li ² O/LiOH system	Journal of Nuclear Materials, Vol 347, No 1, pp 31-43
2005	Dodwell, Glenn W. ; Morton, Robert W. ; Gislason, Jason J.;	Sorbents for desulfurization	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2005	Dring, K. and Dashwood, R. and Inman, D.	Voltammetry of Titanium Dioxide in Molten Calcium Chloride at 900° C	Journal of the Electrochemical Society, Vol 152, No 3, pp 104-113
2005	Elers, Kai-Erik ; Haukka, Suvi P. ; Saanila, Ville Antero ; Kaipio, Sari Johanna ; Soininen, Pekka Juha;	Method for depositing nanolaminate thin films on sensitive surfaces	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2005	Gupta, H. and Iyer, M. and Sakadjian, B. and Fan, L.S.	ENHANCED HYDROGEN PRODUCTION INTEGRATED WITH CO ₂ SEPARATION IN A SINGLE-STAGE REACTOR	Ohio State University (US)
2005	Hannevold, L.;Nielsen, O.;Kjekshus, A.;Fjellvag, H.;	Chemical vapor transport of platinum and rhodium with oxygen as transport agent	Journal of Crystal Growth, Vol 279, No 1, pp 206-212

2005	Hannevold, L.;Nielsen, O.;Kjekshus, A.;Fjellvag, H.;	Etching of platinum-rhodium alloys in oxygen-containing atmospheres	Journal of Alloys and Compounds, Vol 402, No 1, pp 53-57
2005	Hannevold, L.;Nielsen, O.;Kjekshus, A.;Fjellvag, H.;	Reconstruction of platinum-rhodium catalysts during oxidation of ammonia	Applied Catalysis A: General, Vol 284, No 1, pp 163-176
2005	Hannevold, L.;Nielsen, O.;Kjekshus, A.;Fjellvag, H.;	Surface reconstruction on noble-metal catalysts during oxidation of ammonia	Applied Catalysis A: General, Vol 284, No 1, pp 185-192
2005	Haublein, V.;Sadrawetz, S.;Frey, L.;Martinz, H.P.;Ryssel, H.;	Investigations into the wear of a WL10 ion source	Nuclear Inst. and Methods in Physics Research, B, Vol 237, No 1, pp 341-345
2005	Herreros, O.;Quiroz, R.;Restovic, A.;Vinals, J.;	Dissolution kinetics of metallic copper with CuSO ⁴ -NaCl-HCl	Hydrometallurgy, Vol 77, No 3, pp 183-190
2005	Hobbs, L.W. and Rosen, V.B. and Mangin, S.P. and Treska, M. and Hunter, G.	OXIDATION MICROSTRUCTURES AND INTERFACES IN THE OXIDISED ZIRCONIUM KNEE	International Journal of Applied Ceramic Technology, Vol 2, No 3, pp 221-246
2005	Häublein, V. and Sadrawetz, S. and Frey, L. and Martinz, H.P. and Ryssel, H.	Investigations into the wear of a WL10 ion source	Nuclear Inst. and Methods in Physics Research, B, Vol 237, No 1-2, pp 341-345
2005	Ingier-Stocka, E.;Maciejewski, M.;	Thermal decomposition of [Co(NH ³) ⁶] ²⁺ (C ² O ⁴) ³⁻ ·4H ² O	Thermochemica Acta, Vol 432, No 1, pp 56-69
2005	Ishida, M. and Otsuka, K. and Takenaka, S. and Yamanaka, I.	One-step production of CO- and CO ₂ -free hydrogen from biomass	Journal of Chemical Technology & Biotechnology, Vol 80, No 3, pp 281-284
2005	Jeguirim, M.;Tschamber, V.;Brilhac, J.F.;Ehrburger, P.;	Oxidation mechanism of carbon black by NO ₂ : Effect of water vapour	Fuel, Vol 84, No 14, pp 1949-1956
2005	Jennifer L. Ladd-Lively A1, A2, Barry B. Spencer A1, A2, Robert M. Counce A1, A2	Separation of Cesium and Strontium from Residues Arising from Fluoride Volatility Processing of Spent Nuclear Fuel	Separation Science and Technology, Volume 40, Number 1-3 / 2005
2005	Kaljuvee, T. and Trikkel, A. and Kuusik, R. and Bender, V.	The role of MgO in the binding of SO ₂ by lime-containing materials	Journal of Thermal Analysis and Calorimetry, Vol 80, No 3, pp 591-597
2005	Kalnins, D. and Corey, M. and Ellis, L. and Durie, P.R. and Pencharz, P.B.	Combining unprotected pancreatic enzymes with pH-sensitive enteric-coated microspheres does not improve nutrient digestion in patients with cystic fibrosis	The Journal of Pediatrics, Vol 146, No 4, pp 489-493
2005	Kalnins, D.;Corey, M.;Ellis, L.;Durie, P.R.;Pencharz, P.B.;	Combining unprotected pancreatic enzymes with pH-sensitive enteric-coated microspheres does not improve nutrient...	Journal of Pediatrics, Vol 146, No 4, pp 489-493
2005	Karjalainen, H.;Lassi, U.;Rahkamaa-Tolonen, K.;Kroger, V.;Keiski, R.L.;	Thermodynamic equilibrium calculations of sulfur poisoning in Ce-O-S and La-O-S systems	Catalysis Today, Vol 100, No 3, pp 291-295
2005	Kim, D.J. and Lee, Y.W. and Kim, Y.S.	The thermal conductivity and lattice parameter measurements in a low Ce content (U _{1-y} Ce _y)O ₂ mixed oxide	Journal of Nuclear Materials, Vol 342, No 1-3, pp 192-196
2005	Kim, M.R. and Jang, J.G. and Lee, J.K.	Effect of Ash Compositions on Air Pollutant Emissions during Fluidized Bed Sludge Incineration	Korean J. Chem. Eng, Vol 22, No 1, pp 61-66
2005	Kim, S.H. and Kim, Y.G. and Kim, H.S. and Na, S.H. and Lee, Y.W. and Suhr, D.S.	Thermal conductivity of near-stoichiometric (U, Er)O ₂ solid solutions	Journal of Nuclear Materials, Vol 342, No 1-3, pp 119-124
2005	Kimoto, T. and Kanzaki, Y. and Noborio, M. and Kawano, H. and Matsunami, H.	Interface Properties of Metal--Oxide--Semiconductor Structures on 4H-SiC (11-20) Formed by N ₂ O Oxidation	Japanese Journal of Applied Physics, Vol 44, No 3, pp 1213-1218
2005	Kolhinen, T. and Jalkanen, H.	Thermodynamic modeling of ammoniacal nickel sulphate solutions	Scandinavian Journal of Metallurgy, Vol 34, pp 334
2005	Kräupl, S. and Steinfeld, A.	Monte Carlo Radiative Transfer Modeling of a Solar Chemical Reactor for The Co-Production of Zinc and Syngas	Journal of Solar Energy Engineering, Vol 127, pp 102
2005	Kumari, R.	Computers And Their Applications to Chemistry	Alpha Science International, Ltd
2005	Kuramochi, H.;Wu, W.;Kawamoto, K.;	Prediction of the behaviors of H ₂ S and HCl during gasification of selected residual biomass fuels by equilibrium...	Fuel, Vol 84, No 4, pp 377-387
2005	Ladd-Lively, Jennifer L.; Spencer, Barry B.; Counce, Robert M.	Separation of cesium and strontium from residues arising from fluoride volatility processing of spent nuclear fuel	Separation Science and Technology (2005), 40(1-3), 17-29
2005	Lambertin, D.;Ched'homme, S.;Bourges, G.;Sanchez, S.;Picard, G.S.;	Activity coefficients of plutonium and cerium in liquid gallium at 1073K: Application to a molten salt/solvent metal...	Journal of Nuclear Materials, Vol 341, No 2, pp 131-140

2005	Lee, S.H.D.;Applegate, D.V.;Ahmed, S.;Calderone, S.G.;Harvey, T.L.;	Hydrogen from natural gas: part I-autothermal reforming in an integrated fuel processor	International Journal of Hydrogen Energy, Vol 30, No 8, pp 829-842
2005	Lee, Y.W. and Kim, S.H. and Kim, D.J. and Kim, Y.K. and Sohn, D.S.	The role of oxygen potential in the sintering of UO ₂ -5wt% CeO ₂ powder mixed with M ₃ O ₈ (M= U+ Ce)	Journal of Nuclear Materials, Vol 344, No 1-3, pp 254-258
2005	Lee, Y.W.;Kim, S.H.;Kim, D.J.;Kim, Y.K.;Sohn, D.S.;	The role of oxygen potential in the sintering of UO ₂ -5wt%CeO ₂ powder mixed with M ³ O ⁸ (M=U+Ce)	Journal of Nuclear Materials, Vol 344, No 1, pp 254-258
2005	Lin, S. and Harada, M. and Suzuki, Y. and Hatano, H.	Process analysis for hydrogen production by reaction integrated novel gasification (HyPr-RING)	Energy Conversion and Management, Vol 46, No 6, pp 869-880
2005	Lin, S.;Harada, M.;Suzuki, Y.;Hatano, H.;	CO ₂ separation during hydrocarbon gasification	Energy, Vol 30, No 11, pp 2186-2193
2005	Lin, S.;Harada, M.;Suzuki, Y.;Hatano, H.;	Process analysis for hydrogen production by reaction integrated novel gasification (HyPr-RING)	Energy Conversion and Management, Vol 46, No 6, pp 869-880
2005	LOFFLER, Daniel G.;	SYSTEMS AND METHODS FOR GENERATING HYDROGEN FROM HYDROCARBON FUELS	PAT PATENT COOPERATION TREATY APPLICATION
2005	Malinowska, B.;Rakib, M.;Durand, G.;	Analytical characterization of cadmium cyanamide in CdS thin films and bulk precipitates produced from CBD process in...	Solar Energy Materials and Solar Cells, Vol 86, No 3, pp 399-419
2005	MARIO SERGIO SANT ANNA GONCALVES;	ASPECTS OF SYNTHESIS BY PREFERENTIAL REDUCTION AND CHARACTERIZATION OF CO-ZNO NANOCOMPOSITE. ASPECTOS DA SÍNTESE POR REDUÇÃO ...	THESIS
2005	Matsuda, H.;Ozawa, S.;Naruse, K.;Ito, K.;Kojima, Y.;Yanase, T.;	Kinetics of HCl emission from inorganic chlorides in simulated municipal wastes incineration conditions	Chemical Engineering Science, Vol 60, No 2, pp 545-552
2005	Mini{\'c}, D. and {\w{S}}trbac, N. and Mihajlovi{\'c}, I. and {\w{Z}}ivkovi{\'c}, {\w{Z}}.	Thermal analysis and kinetics of the copper-lead matte roasting process	Journal of Thermal Analysis and Calorimetry, Vol 82, No 2, pp 383-388
2005	Monteverde, F. and Bellosi, A.	Development and characterization of metal-diboride-based composites toughened with ultra-fine SiC particulates	Solid State Sciences, Vol 7, No 5, pp 622-630
2005	Monteverde, F.;	Progress in the fabrication of ultra-high-temperature ceramics: "in situ" synthesis, microstructure and properties of...	Composites Science and Technology, Vol 65, No 11, pp 1869-1879
2005	Monteverde, F.;Bellosi, A.;	Development and characterization of metal-diboride-based composites toughened with ultra-fine SiC particulates	Solid State Sciences, Vol 7, No 5, pp 622-630
2005	Munoz-Sanjose, V. and Tena-Zaera, R. and Martinez-Tomas, C. and Zuniga-Perez, J. and Hassani, S. and Triboulet, R.	A new approach to the growth of ZnO by vapour transport	Physica Status Solidi C, Vol 2, No 3, pp 1106-1114
2005	Munro, S. D.; Rumball, J. A.	A flowsheet-level approach to modelling aqueous phase equilibria and speciation in a CIP/CIL gold plant	Computational Analysis in Hydrometallurgy, Proceedings of the International Symposium on Computational Analysis in Hydrometallurgy, Calgary, AB, Canada, Aug. 21-24, 2005 (2005), 99-111. Editor(s): Nixon, Dave G.; Dry, Mike J. Publisher: Canadian Institute of Mining, Metallurgy and Petroleum, Montreal, Que.
2005	Nakagawa, T.;Suga, S.;Mayanagi, K.;Akaji, K.;Inamasu, J.;Kawase, T.;Keio SAH Cooperative Study Group;	Predicting the overall management outcome in patients with a subarachnoid hemorrhage accompanied by a massive...	Surgical Neurology, Vol 63, No 4, pp 329-334
2005	NEUSCHÜTZ, D. and SPIRIN, D. and QUADE, U. and MEIER-KORTWIG, J. and HOLAPPA, L. and HÄMÄLÄINEN, M. and HEREDIA LOZANO, MA and GUIOBONANY, MJ	Inadvertent Melting of Radioactive Sources in BOF or EAF: Distribution of Nuclides, Monitoring, Prevention	ISIJ International, Vol 45, No 2, pp 288-295
2005	Newcombe, R.L. and Hart, B.K. and Mo"ller, G.	Arsenic Removal from Water by Moving Bed Active Filtration	Journal of Environmental Engineering, Vol 132, No 1, pp 5-12
2005	Nie, Jason X. ; Daniels, Robert ; Perkins-Banks, Dale H. ; Messer, Thomas;	Method of making elemental materials and alloys	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2005	Ojala, S. and Lassi, U. and Ylönen, R. and Karjalainen, H. and Rahkamaa-Tolonen, K. and Keiski, R.L.	Solvent emission minimization by catalytic oxidation	Proc. RESOPT closing seminar 'Waste minimization and utilization in Oulu region: Drivers and constraints, pp 165-172

2005	Ojala, S.;Lassi, U.;Ylonen, R.;Karjalainen, H.;Keiski, R.L.;	Influence of the heat exchangers' construction material on catalytic incineration	Catalysis Today, Vol 100, No 3, pp 367-372
2005	Park, Sang-Eon ; Chang, Jong-Son ; Park, Min Seok;	Method for catalytic dehydrogenation of hydrocarbons using carbon dioxide as a soft oxidant	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2005	Pedraza, F. and G(\o)mez, C. and Carpintero, MC and Hierro, MP and Pérez, FJ	On the aluminisation of stainless steel by CVD in fluidised beds	Surface \& Coatings Technology, Vol 190, No 2-3, pp 223-230
2005	Pedraza, F.;Gomez, C.;Carpintero, M.C.;Hierro, M.P.;Perez, F.J.;	On the aluminisation of stainless steel by CVD in fluidised beds	Surface and Coatings Technology, Vol 190, No 2, pp 223-230
2005	Petkova, V. and Pelovski, Y. and Dombalov, I. and T{\a}nsuaadu, K.	Thermochemical investigations of natural phosphate with ammonium sulfate additive	Journal of Thermal Analysis and Calorimetry, Vol 80, No 3, pp 701-708
2005	Rabe, S.;Truong, T.B.;Vogel, F.;	Low temperature catalytic partial oxidation of methane for gas-to-liquids applications	Applied Catalysis A, General, Vol 292, No ., pp 177-188
2005	Rambo, C.R.;Cao, J.;Rusina, O.;Sieber, H.;	Manufacturing of biomorphic (Si,Ti,Zr)-carbide ceramics by sol-gel processing	Carbon, Vol 43, No 6, pp 1174-1183
2005	Regina, J.R.;DuPont, J.N.;Marder, A.R.;	Gaseous corrosion resistance of Fe-Al-based alloys containing Cr additions	Materials Science & Engineering A, Vol 404, No 1, pp 71-78
2005	Regina, JR and DuPont, JN and Marder, AR	Gaseous corrosion resistance of Fe-Al based alloys containing Cr additions Part II. Scale morphology	Materials Science \& Engineering A, Vol 405, No 1-2, pp 102-110
2005	Ross, J.R.H.;	Natural gas reforming and CO ² mitigation	Catalysis Today, Vol 100, No 1, pp 151-158
2005	Saint-Jean, S.J.;Jons, E.;Lundgaard, N.;Hansen, S.;	Chlorellestadite in the preheater system of cement kilns as an indicator of HCl formation	Cement and Concrete Research, Vol 35, No 3, pp 431-437
2005	Satchell, Donald Prentice;	Method of treating a gas output from a processing chamber	PAT EUROPEAN PATENT APPLICATION
2005	Schmid, S. and Yeung, A.	The influence of a pre-laboratory work module on student performance in the first year chemistry laboratory	Research and Development in Higher Education, Vol 28, pp 471-479
2005	Sciti, D. and Brach, M. and Bellosi, A.	Long-term oxidation behavior and mechanical strength degradation of a pressurelessly sintered ZrB ₂ -MoSi ₂ ceramic	Scripta Materialia, Vol 53, No 11, pp 1297-1302
2005	Sciti, D. and Brach, M. and Bellosi, A.	Oxidation behavior of a pressureless sintered ZrB ₂ -MoSi ₂ ceramic composite	Journal of Materials Research, Vol 20, No 4, pp 922-930
2005	Sciti, D.;Brach, M.;Bellosi, A.;	Long-term oxidation behavior and mechanical strength degradation of a pressurelessly sintered ZrB ₂ -MoSi ₂ ceramic	Scripta Materialia, Vol 53, No 11, pp 1297-1302
2005	Setoudeh, N.;Saidi, A.;Welham, N.J.;	Effect of elemental iron on the carbothermic reduction of the anatase and rutile forms of titanium dioxide	Journal of Alloys and Compounds, Vol 395, No 1, pp 141-148
2005	Soininen, Pekka Juha ; Elers, Kai-Erik;	Process for producing integrated circuits including reduction using gaseous organic compounds	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2005	Soltanieh, M.; Karimi, Y.	Copper reduction in anode furnaces with natural gas	Canadian Metallurgical Quarterly (2005), 44(3), 429-434
2005	Sosa Vazquez, M.;Reyes Rojas, A.;Collins-Martinez, V.;Lopez Ortiz, A.;	Study of the stabilizing effect of Al ² O ₃ and ZrO ₂ in mixed metal oxides of Cu for hydrogen production through REDOX...	Catalysis Today, Vol 107, No ., pp 831-837
2005	STILES, James, Alexander, Robert ; BELLUZ, Paul, Barry, Del, Bel ; MOORE, John, Wesley;	POLYSULFIDE THERMAL VAPOUR SOURCE FOR THIN SULFIDE FILM DEPOSITION	PAT PATENT COOPERATION TREATY APPLICATION
2005	SUGHRUE, Edward L. ; JOHNSON, Marvin M. ; DODWELL, Glenn W. ; REED, Larry E. ; BARES, Joseph E. ; GISLASON, Jason J. ; MORTON, Robert W. ; MALANDRA, James L. ; JOHNSON, Byron G.;	DESULFURIZATION AND SORBENTS FOR SAME	PAT PATENT COOPERATION TREATY APPLICATION
2005	Suzuki, R.O.;Baba, M.;Ono, Y.;Yamamoto, K.;	Formation of broccoli-like morphology of tantalum powder	Journal of Alloys and Compounds, Vol 389, No 1, pp 310-316
2005	Taralunga, M.;Mijoin, J.;Magnoux, P.;	Catalytic destruction of chlorinated POPs-Catalytic oxidation of chlorobenzene over PtHFAU catalysts	Applied Catalysis B, Environmental, Vol 60, No 3, pp 163-171
2005	Teir, S.;Eloneva, S.;Zevenhoven, R.;	Production of precipitated calcium carbonate from calcium silicates and carbon dioxide	Energy Conversion and Management, Vol 46, No 18, pp 2954-2979
2005	Tena Zaera, Ramón;	El óxido de zinc: crecimiento cristalino mediante transporte en fase gaseosa y caracterización de propiedades físicas.	THESIS

2005	Teo, E.D.;Brandon, N.P.;Vos, E.;Kramer, G.J.;	A critical pathway energy efficiency analysis of the thermochemical UT-3 cycle	International Journal of Hydrogen Energy, Vol 30, No 5, pp 559-564
2005	Tong, L. and Reddy, R.G.	Synthesis of titanium carbide nano-powders by thermal plasma	Scripta Materialia, Vol 52, No 12, pp 1253-1258
2005	Trommer, D.;Noembrini, F.;Fasciana, M.;Rodriguez, D.;Morales, A.;Romero, M.;Steinfeld, A.;	Hydrogen production by steam-gasification of petroleum coke using concentrated solar power-I. Thermodynamic and kinetic...	International Journal of Hydrogen Energy, Vol 30, No 6, pp 605-618
2005	upon Reaction, G.V.C.	Journal	J. Am. Ceram. Soc, Vol 88, No 4, pp 882-888
2005	VAJO, John J. ; MERTENS, Florian O. ; SKEITH, Sky L. ; BALOGH, Michael P.;	REVERSIBLE HYDROGEN STORAGE SYSTEM AND METHODS FOR USE THEREOF	PAT PATENT COOPERATION TREATY APPLICATION
2005	Walle, E. and Finne, J. and Picard, G. and Sanchez, S. and Boursier, J.M. and Noel, D.	A computational tool for selective pyrochemical processes based on molten salts in nuclear industry	Journal of Nuclear Materials, Vol 344, No 1-3, pp 158-164
2005	VAN HINSBERG, VJ and VRIEND, SP and SCHUMACHER, JC	A new method to calculate end-member thermodynamic properties of minerals from their constituent polyhedra II: heat capacity, compressibility and thermal expansion	Journal of Metamorphic Geology, Vol 23, No 8, pp 681
2005	Wang, Lidong;	Chemical Vapor Deposition of Thin Films for ULSI Interconnect Metallization	THES
2005	Velasquez, C.E. and Reay, A.R. and Andazola, J.C. and Naranjo, G.E. and Gelbard, F.	High pressure sulfuric acid decomposition experiments for the sulfur-iodine thermochemical cycle.	SAND2005-5598, Sandia National Laboratories
2005	Velu, S.;Suzuki, K.;Vijayaraj, M.;Barman, S.;Gopinath, C.S.;	In situ XPS investigations of Cu ¹⁺ -xNi ^x ZnAl-mixed metal oxide catalysts used in the oxidative steam reforming of...	Applied Catalysis B: Environmental, Vol 55, No 4, pp 287-299
2005	Villani, K.;Brosius, R.;Martens, J.A.;	Catalytic carbon oxidation over Ag/Al ₂ O ₃	Journal of Catalysis, Vol 236, No 1, pp 172-175
2005	Villegas, L.;Guilhaume, N.;Provendier, H.;Daniel, C.;Masset, F.;Mirodatos, C.;	A combined thermodynamic/experimental study for the optimisation of hydrogen production by catalytic reforming of...	Applied Catalysis A: General, Vol 281, No 1, pp 75-83
2005	von Bonsdorff, R.;Jarvenpaa, N.;Aromaa, J.;Forsen, O.;Hyvarinen, O.;Barker, M.H.;	Electrochemical sensors for the HydroCopper(TM) process solution	Hydrometallurgy, Vol 77, No 1, pp 155-161
2005	Xiang, L.;Yin, Y.P.;Jin, Y.;	Hydrothermal preparation of nickel hydroxide coated iron oxide particles	Materials Letters, Vol 59, No 17, pp 2223-2228
2005	YAMANAKA, S. and KUROSAKI, K. and OYAMA, T. and MUTA, H. and UNO, M. and MATSUDA, T. and KOBAYASHI, S.I.	Thermophysical Properties of Perovskite-Type Strontium Cerate and Zirconate	Journal of the American Ceramic Society, Vol 88, No 6, pp 1496-1499
2005	Yuta Matsushima ; Miya Naganuma ; Tsutomu Yamazaki ; Kazuyuki Maeda ; Takeyuki Suzuki;	Diamond synthesis under atmospheric pressure from ethanol-water solution using hot-filament chemical vapor deposition method ...	Journal of Applied Physics, Vol ., No ., pp .-
2005	Yu-wen, Z. and Wei-zhong, D. and Xiong-gang, LU and Shu-qiang, GUO and Kuang-di, XU	Reduction of TiO ₂ with hydrogen cold plasma in DC pulsed glow discharge	??????????? (???) , Vol 15, No 3
2005	Zeschky, J.;Lo, J.;Hofner, T.;Greil, P.;	Mg alloy infiltrated Si-O-C ceramic foams	Materials Science & Engineering A, Vol 403, No 1, pp 215-221
2005	Zhiqiang, F.;Tongxiang, L.;Jean-Charles, R.;Chunhe, T.;	The stability of SiC coating and SiO ₂ /SiC multilayer on the surface of graphite for HTGRs at normal service condition	Applied Surface Science, Vol 240, No 1, pp 349-354
2005	Zilbergleyt, B.	Forecast of the Chemical Aging and Relevant Color Changes in Painting	Arxiv preprint physics/0505037
2005	Zilbergleyt, B.	Le Chatelier Response	Arxiv preprint physics/0508185
2004	1971- Yi, Kwang Bok,;	Ceria-zirconia oxide high temperature desulfurization sorbent	THES
2004	Albina, D.O. and Millrath, K. and Themelis, NJ	Effects of Feed Composition on Boiler Corrosion in Waste-to-Energy Plants	12 thNorth American Waste to Energy Conference (NAWTEC 12), Georgia, USA
2004	Asawa, M. and Devasenapathi, A. and Fujisawa, M.	Effect of corrosion product layer on SCC susceptibility of copper containing type 304 stainless steel in 1 M H ₂ SO ₄	Materials Science & Engineering A, Vol 366, No 2, pp 292-298
2004	Atkinson, A.; Ramos, T.	Assessment of ceramic membrane reforming in a solid oxide fuel cell stack	Journal of Power Sources (2004), 130(1-2), 129-135

2004	Bin, L. and Zhangfu, Y. and Wenbing, L. and Cong, X.	A NEW METHOD FOR DEOXIDIZATION AND CHLORINATION OF REFINED ILMENITE WITH HIGH MAGNESIA AND CALCIA CONTENTS	China Particuology, Vol 2, No 2, pp 84-88
2004	Blum, YD and Kleebe, H.J.	Chemical reactivities of hafnium and its derived boride, carbide and nitride compounds at relatively mild temperature	Journal of Materials Science, Vol 39, No 19, pp 6023-6042
2004	BOREN, Richard M. ; HAMMEL, Charles F.;	OXIDES OF MANGANESE PROCESSED IN CONTINUOUS FLOW REACTORS	PAT PATENT COOPERATION TREATY APPLICATION
2004	Carlsson, Mats;	Preparation and characterisation of refractory whiskers and selected alumina composites	ELEC
2004	Carlsson, Mats;	Preparation and characterisation of refractory whiskers and selected alumina composites	THES
2004	Castagnola, M.J.;Neylon, M.K.;Marshall, C.L.;	Coated bifunctional catalysts for NO ^x SCR with C ³ H ⁶ - Part II. In situ spectroscopic characterization	Catalysis Today, Vol 96, No 1, pp 61-70
2004	Cattaneo, H.;Laurila, T.;Hernberg, R.;	VCSEL based detection of water vapor near 940nm	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Vol 60, No 14, pp 3269-3275
2004	Chojceki, A. and Jobic, H. and Jentys, A. and Müller, T.E. and Lercher, J.A.	Inelastic Neutron Scattering of Hydrogen and Butyronitrile Adsorbed on Raney-Co Catalysts	Catalysis Letters, Vol 97, No 3, pp 155-162
2004	Courouau, J.L.	Electrochemical oxygen sensors for on-line monitoring in lead-bismuth alloys: status of development	Journal of Nuclear Materials, Vol 335, No 2, pp 254-259
2004	Courouau, J.-L.;	Electrochemical oxygen sensors for on-line monitoring in lead-bismuth alloys: status of development	Journal of Nuclear Materials, Vol 335, No 2, pp 254-259
2004	Edwards, Robert Arthur Henry ; Burghartz, Stephan Maurice Marco Boris;	Gas-phase chemical reactions using a molten metal catalyst	PAT EUROPEAN PATENT APPLICATION
2004	Elers, Kai-Erik ; Saanila, Ville Antero ; Kaipio, Sari Johanna ; Soininen, Pekka Juha;	Production of elemental thin films using a boron-containing reducing agent	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2004	Elers, Kai-Erik;	Method of modifying source chemicals in an ald process	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2004	Epstein, M. and Bertocchi, R. and Karni, J.	Solar Fixation of Atmospheric Nitrogen	Journal of Solar Energy Engineering, Vol 126, pp 626
2004	Epstein, M.;Ehrensberger, K.;Yogev, A.;	Ferro-reduction of ZnO using concentrated solar energy	Energy, Vol 29, No 5, pp 745-756
2004	Fei, J. and Hou, Z. and Zheng, X. and Yashima, T.	Doped Ni Catalysts for Methane Reforming with CO ₂	Catalysis Letters, Vol 98, No 4, pp 241-246
2004	Gray, S. and Jacobs, MH and Ponton, CB and Voice, W. and Evans, HE	A method of heat-treatment of near γ -TiAl to enhance oxidation resistance by the formation of a Ti ₅ Si ₃ layer	Materials Science & Engineering A, Vol 384, No 1-2, pp 77-82
2004	Gray, S.;Jacobs, M.H.;Ponton, C.B.;Voice, W.;Evans, H.E.;	A method of heat-treatment of near α -TiAl to enhance oxidation resistance by the formation of a Ti ₅ Si ₃ layer	Materials Science and Engineering: A, Vol 384, No 1, pp 77-82
2004	Han, G. and Sohn, H.Y.	Interphase Mass Transfer with Bulk Flow Normal to the Phase Boundary	KOREAN JOURNAL OF CHEMICAL ENGINEERING, Vol 21, No 1, pp 34-40
2004	Hay, Suzanne J.; Metson, James B.; Hyland, Margaret M.	Sulfur speciation in aluminum smelting anodes	Industrial & Engineering Chemistry Research (2004), 43(7), 1690-1700
2004	Hayrinen, V.;Hernberg, R.;Aho, M.;	Demonstration of plasma excited atomic resonance line spectroscopy for on-line measurement of alkali metals in a 20kW...	Fuel, Vol 83, No 7, pp 791-797
2004	Holcomb, G.R. and Ziomek-Moroz, M. and Cramer, S.D. and Covino Jr, B.S. and Bullard, S.J.	Dual Environment Effects on the Oxidation of Metallic Interconnects	Conference: ASM Materials Solutions Conference and Exposition, Columbus, OH, Oct. 18-21, 2004 (sponsored by ASM International, Materials Park, OH
2004	Huang, J.H.;Kargl-Simard, C.;Oliazadeh, M.;Alfantazi, A.M.;	pH-Controlled precipitation of cobalt and molybdenum from industrial waste effluents of a cobalt electrodeposition...	Hydrometallurgy, Vol 75, No 1, pp 77-90
2004	Ihanus, J.;Lambers, E.;Holloway, P.H.;Ritala, M.;Leskela, M.;	XPS and electroluminescence studies on SrS ¹⁻ - ^x Se ^x and ZnS ¹⁻ - ^x Se ^x thin films deposited by atomic layer deposition...	Journal of Crystal Growth, Vol 260, No 3, pp 440-446
2004	Iwata, M. and Adachi, K. and Furukawa, S. and Amakawa, T.	Synthesis of purified AlN nano powder by transferred type arc plasma	Journal of Physics D Applied Physics, Vol 37, No 7, pp 1041-1047
2004	Ji, P. and Bing, P. and Di, YU and Mo-tang, T. and Lobel, J. and Kozinski, JA	Volatilization of zinc and lead in direct recycling of stainless steel making dust	?????????? (???) , Vol 14, No 2

2004	PAHLMAN, John E. ; CARLTON, Steven C. ; HUFF, Ray V. ; HAMMEL, Charles F. ; BOREN, Richard M. ; KRONBECK, Kevin P. ; LARSON, Joshua E. ; TUZINSKI, Patrick A. ; AXEN, Steve G.;	SYSTEM AND PROCESS FOR REMOVAL OF POLLUTANTS FROM A GAS STREAM	PAT PATENT COOPERATION TREATY APPLICATION
2004	PAHLMAN, John E. ; HAMMEL, Charles F. ; BOREN, Richard M. ; TUZINSKI, Patrick A.;	DISASSOCIATION PROCESSING OF METAL OXIDES	PAT PATENT COOPERATION TREATY APPLICATION
2004	Peng, Ji; Peng, Bing; Yu, Di; Tang, Mo-tang; Lobel, J.; Kozinski, J. A.	Volatilization of zinc and lead in direct recycling of stainless steel making dust	Transactions of Nonferrous Metals Society of China (2004), 14(2), 392-396
2004	Perez, F.J.;Pedraza, F.;Hierro, M.P.;Carpintero, M.C.;Gomez, C.;	Chromising of stainless steels by the use of the CVD- FBR technology	Surface and Coatings Technology, Vol 184, No 1, pp 47-54
2004	Pérez, FJ and Hierro, MP and Carpintero, MC and Bolivar, FJ	Aluminum and silicon co-deposition by the chemical vapor deposition in fluidized bed reactor technique as a precursor of protective coatings of mullite	Surface & Coatings Technology, Vol 184, No 2-3, pp 361-369
2004	Pérez, FJ and Pedraza, F. and Hierro, MP and Carpintero, MC and Gómez, C.	Chromising of stainless steels by the use of the CVD- FBR technology	Surface & Coatings Technology, Vol 184, No 1, pp 47- 54
2004	Preto, F.;Wang, J.;Jia, L.;Anthony, E.J.;	A study on mechanisms of nitrous oxide formation in post-combustion flue gases	Atmospheric Environment, Vol 38, No 8, pp 1123-1131
2004	Pupyshev, A.A.;Surikov, V.T.;	Application of negative ions in inductively coupled plasma-mass spectrometry	Spectrochimica Acta Part B: Atomic Spectroscopy, Vol 59, No 7, pp 1021-1031
2004	QUILEZ, J.	Changes in concentration and in partial pressure in chemical equilibria: students' and teachers' 'misunderstandings	Chemistry Education: Research and Practice
2004	Quinn, R.;Dahl, T.A.;Toseland, B.A.;	An evaluation of synthesis gas contaminants as methanol synthesis catalyst poisons	Applied Catalysis A: General, Vol 272, No 1, pp 61-68
2004	Ramos, T. and Atkinson, A.	Oxygen diffusion and surface exchange in La _{1-x} Sr _x Fe _{0.8} Cr _{0.2} O _{3-δ} (x= 0.2, 0.4 and 0.6)	Solid State Ionics, Vol 170, No 3-4, pp 275-286
2004	REACTORS, F.	REACTOR PHYSICS DESIGN OF SUPERCRITICAL CO	
2004	Regina, JR and DuPont, JN and Marder, AR	The Effect of Water Vapor on Passive-Layer Stability and Corrosion Behavior of Fe-Al-Cr Base Alloys	Oxidation of Metals, Vol 61, No 1, pp 69-90
2004	Ricceri, R. and Matteazzi, P.	A fast and low-cost room temperature process for TiB ₂ formation by mechanosynthesis	Materials Science & Engineering A, Vol 379, No 1-2, pp 341-346
2004	Rivas Mercury, J.M.;De Aza, A.H.;Turrillas, X.;Pena, P.;	The synthesis mechanism of Ca ₃ Al ₂ O ₆ from soft mechanochemically activated precursors studied by time-resolved...	Journal of Solid State Chemistry, Vol 177, No 3, pp 866-874
2004	Rouquette-Sanchez, S.;Picard, G.S.;	Chalcogenide chemistry in molten salts. I. Selenium(IV) acido-basic and redox properties in the LiCl-KCl eutectic melt...	Journal of Electroanalytical Chemistry, Vol 572, No 1, pp 173-183
2004	Saanila, Ville Antero ; Elers, Kai-Erik ; Kaipio, Sari Johanna ; Soininen, Pekka Juha;	Process for growing metal or metal carbide thin films utilizing boron-containing reducing agents	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2004	Sasaki, K. and Watanabe, K. and Shiosaki, K. and Susuki, K. and Teraoka, Y.	Multi-Fuel Capability of Solid Oxide Fuel Cells	Journal of Electroceramics, Vol 13, No 1, pp 669-675
2004	Shores, D.A.;Mohanty, B.P.;	Role of chlorides in hot corrosion of a cast Fe-Cr-Ni alloy. Part II: thermochemical model studies	Corrosion Science, Vol 46, No 12, pp 2909-2924
2004	Strand, M. and Bohgard, M. and Swietlicki, E. and Gharibi, A. and Sanati, M.	Laboratory and Field Test of a Sampling Method for Characterization of Combustion Aerosols at High Temperatures	Aerosol Science & Technology, Vol 38, No 8, pp 757- 765
2004	Sumi, H.;Ukai, K.;Mizutani, Y.;Mori, H.;Wen, C.- J.;Takahashi, H.;Yamamoto, O.;	Performance of nickel-scandia-stabilized zirconia cermet anodes for SOFCs in 3% H ₂ O-CH ₄	Solid State Ionics, Vol 174, No 1, pp 151-156
2004	Teir, S. and Raiski, T. and Zevenhoven, R. and TEKES, F.T.A. and Tuhkanen, S.	"CO ₂ emissions: mineral carbonation and Finnish pulp and paper industry"	Final Rep. Espoo, Vol 59
2004	Tena-Zaera, R.;Martinez- Tomas, M.C.;Hassani, S.;Triboulet, R.;Munoz- Sanjose, V.;	Study of the ZnO crystal growth by vapour transport methods	Journal of Crystal Growth, Vol 270, No 3, pp 711-721
2004	Tomeczek, J.;Palugniok, H.;Ochman, J.;	Modelling of deposits formation on heating tubes in pulverized coal boilers	Fuel, Vol 83, No 2, pp 213-221

2004	Tran, K.-Q.;Iisa, K.;Hagstrom, M.;Steenari, B.-M.;Lindqvist, O.;Petterson, J.B.C.;	On the application of surface ionization detector for the study of alkali capture by kaolin in a fixed bed reactor	Fuel, Vol 83, No 7, pp 807-812
2004	Triboulet, R.;	Fundamentals of the CdTe synthesis	Journal of Alloys and Compounds, Vol 371, No 1, pp 67-71
2004	Uusitalo, M.A.;Vuoristo, P.M.J.;Mantyla, T.A.;	High temperature corrosion of coatings and boiler steels below chlorine-containing salt deposits	Corrosion Science, Vol 46, No 6, pp 1311-1331
2004	Vanderstaay, E. C.;	A computational thermodynamics model of submerged arc electric furnace ferromanganese smelting	Transactions of the Institutions of Mining and Metallurgy, Section C: Mineral Processing and Extractive Metallurgy (2004), 113(1), C38-C44
2004	Swinbourne, D. R.;	A computational thermodynamics model of submerged arc electric furnace ferromanganese smelting	Mineral Processing and Extractive Metallurgy (Trans. Inst. Min. Metall. C), Vol 113, pp C39
2004	Monteiro, M.		
2004	Vanderstaay, EC and Swinbourne, DR and Monteiro, M.		
2004	Volynskii, AB	Chemical Modifiers Based on Platinum-Group Metal Compounds in Electrothermal Atomic Absorption Spectrometry	Journal of Analytical Chemistry, Vol 59, No 6, pp 502-520
2004	Wu, B.	Thermodynamic study of photomask plasma etching	Proceedings of SPIE, Vol 5567, pp 1195-1206
2004	Wu, M.;Snook, G.A.;Chen, G.Z.;Fray, D.J.;	Redox deposition of manganese oxide on graphite for supercapacitors	Electrochemistry Communications, Vol 6, No 5, pp 499-504
2004	Yi, K.B. and Mukherjee, A. and Podlaha, E.J. and Harrison, D.P.	HIGH EFFICIENCY DESULFURIZATION OF SYNTHESIS GAS	Louisiana State University (US)
2004	Yi, Kwang Bok;	Ceria-Zirconia Oxide High Temperature Desulfurization Sorbent	THES
2004	Zhu, J.;Rahuman, M.S.M.M.;van Ommen, J.G.;Lefferts, L.;	Dual catalyst bed concept for catalytic partial oxidation of methane to synthesis gas	Applied Catalysis A: General, Vol 259, No 1, pp 95-100
2004	Zilbergleyt, B.	Chemical Equilibrium as Balance of the Thermodynamic Forces	Arxiv preprint physics/0404082
2004	Zilbergleyt, B.	Peculiarities of Thermodynamic Simulation with the Method of Bound Affinity	Arxiv preprint physics/0409116
2004	Özmen, H.	Some Student Misconceptions in Chemistry: A Literature Review of Chemical Bonding	Journal of Science Education and Technology, Vol 13, No 2, pp 147-159
2003	;	03/01709 Steam reforming of dodecane over supported iridium catalysts - Ando, T. et al. Journal of the Japan Petroleum...	Fuel and Energy Abstracts, Vol 44, No 5, pp 297-297
2003	;	03/01710 Syngas production method utilizing an oxygen transport membrane - Prasad, R. et al. U.S. Pat. Appl. Publ. US...	Fuel and Energy Abstracts, Vol 44, No 5, pp 297-297
2003	;	03/01711 The solar thermal gasification of coal - energy conversion efficiency and CO ² mitigation potential -...	Fuel and Energy Abstracts, Vol 44, No 5, pp 297-297
2003	;	03/01712 Trace element evaporation during coal gasification based on a thermodynamic equilibrium calculation approach...	Fuel and Energy Abstracts, Vol 44, No 5, pp 297-297
2003	;	03/01713 YSZ-SrCO ⁰ ."4Fe ⁰ ."6O ³ -"@d membranes for the partial oxidation of methane to syngas - Gu, X.-H. et al....	Fuel and Energy Abstracts, Vol 44, No 5, pp 297-297
2003	;	03/01714 Adsorption of SO ² using vanadium and vanadium-copper supported on activated carbon - Carabineiro, S. A. C....	Fuel and Energy Abstracts, Vol 44, No 5, pp 297-297
2003	;	03/01715 Estimation of activated carbon adsorption efficiency for organic vapours I. A strategy for selecting test...	Fuel and Energy Abstracts, Vol 44, No 5, pp 297-297
2003	;	03/01716 Flue gas treatment by activated carbon obtained from oil-fired fly ash - Davini, P. Carbon, 2002, 40, (11),...	Fuel and Energy Abstracts, Vol 44, No 5, pp 297-298
2003	Abdullah, A.M.	THE USE OF MICROELECTRODES IN THE STUDY OF LOCALIZED CORROSION OF ALUMINUM 6111-LIKE ALLOYS	
2003	Alton, GD and Liu, Y. and Zaim, H. and Murray, SN	An efficient negative surface ionization source for RIB generation	Nuclear Inst. and Methods in Physics Research, B, Vol 211, No 3, pp 425-435
2003	Andrade, M.C. and Bastos, I.N. and Ogasawara, T.	Rotas de obteno de cernica de niobatos de potssio	Rem: Revista Escola de Minas, Vol 56, pp 267-270
2003	Asikainen, T.;Ritala, M.;Leskela, M.;	Atomic layer deposition growth of zirconium doped In ²⁰ "3 films	Thin Solid Films, Vol 440, No 1, pp 152-154
2003	Beghein, C. and Trampert, J.	Robust Normal Mode Constraints on Inner-Core Anisotropy from Model Space Search	Science, Vol 299, No 5606, pp 552-555
2003	Bender, R. and Schuetze, M.	The role of alloying elements in commercial alloys for corrosion resistance in oxidizing-chloridizing atmospheres. Part I: Literature evaluation and thermodynamic calculations on phase stabilities	Materials and Corrosion, Vol 54, No 8, pp 567-586

2003	Bermanec, V. and Furic, K. and Rajic, M. and Kniewald, G.	Thermal stability and vibrational spectra of the sheet borate tuzlaite, NaCa [B 5 O 8 (OH) 2]? 3H 2 O	American Mineralogist, Vol 88, pp 271-276
2003	Bertolino, N. and Monagheddu, M. and Tacca, A. and Giuliani, P. and Zanotti, C. and Maglia, F. and Tamburini, U.A.	Self-propagating high-temperature synthesis of functionally graded materials as thermal protection systems for high-temperature applications	Journal of materials research, Vol 18, No 2, pp 448-455
2003	Bradford, M.C.J.;Konduru, M.V.;Fuentes, D.X.;	Preparation, characterization and application of Cr ²⁰ /3/ZnO catalysts for methanol synthesis	Fuel Processing Technology, Vol 83, No 1, pp 11-25
2003	Cadwallader, LC	Gallium Safety in the Laboratory	Energy
2003	Caldeira, C.L.;Ciminelli, V.S.T.;Dias, A.;Osseo-Asare, K.;	Pyrite oxidation in alkaline solutions: nature of the product layer	International Journal of Mineral Processing, Vol 72, No 1, pp 373-386
2003	Casas, JM and Etchart, JP and Cifuentes, L.	Aqueous speciation of arsenic in sulfuric acid and cupric sulfate solutions	AIChE Journal, Vol 49, No 8, pp 2199-2210
2003	Ciesla, F.J. and Lauretta, D.S. and Cohen, B.A. and Hood, L.L.	A Nebular Origin for Chondritic Fine-Grained Phyllosilicates	Science, Vol 299, No 5606, pp 549-552
2003	Coll, R.K. and Treagust, D.F.	Investigation of secondary school, undergraduate, and graduate learners' mental models of ionic bonding	Journal of Research in Science Teaching, Vol 40, No 5, pp 464-486
2003	Compositions, I.E. and Conditions, R.	Equilibria in Fuel Cell Gases	Journal of The Electrochemical Society, Vol 150, No 7, pp A878-A884
2003	Davis, R.	Model and Simulation of a Ported Kiln for Iron Oxide Pellet Induration.	Canadian Journal of Chemical Engineering, Vol 81, No 1, pp 86-93
2003	Daz-Somoano, M.;Martnez-Tarazona, M.R.;	Trace element evaporation during coal gasification based on a thermodynamic equilibrium calculation approach	Fuel, Vol 82, No 2, pp 137-145
2003	de Andrade, M.C. and Bastos, I.N. and Ogasawara, T.	Rotas de obten ^c c{c}{\~ao de cer{^a}mica de niobatos de pot{\'assio	Rem: Rev. Esc. Minas, Vol 56, No 4
2003	De Aza, AH and Pena, P. and Rodriguez, MA and Torrecillas, R. and De Aza, S.	New spinel-containing refractory cements	Journal of the European Ceramic Society, Vol 23, No 5, pp 737-744
2003	De Berg, K.C.	The Development of the Theory of Electrolytic Dissociation	Science & Education, Vol 12, No 4, pp 397-419
2003	Elers, K.-E.;Saanila, V.;Li, W.-M.;Soininen, P.J.;Kostamo, J.T.;Haukka, S.;Juhanoja, J.;Besling, W.F.A.;	Atomic layer deposition of W ^x N/TiN and WN ^x C ^y /TiN nanolaminates	Thin Solid Films, Vol 434, No 1, pp 94-99
2003	Esquivel, M.R.;Bohe, A.E.;Pasquevich, D.M.;	Carbochlorination of samarium sesquioxide	Thermochimica Acta, Vol 403, No 2, pp 207-218
2003	Esquivel, M.R.;Bohe, A.E.;Pasquevich, D.M.;	Chlorination of cerium dioxide	Thermochimica Acta, Vol 398, No 1, pp 81-91
2003	GAMZON, Eliyahu ; YOGEV, Amnon;	A CLOSED LOOP ENERGY SYSTEM FOR POWER GENERATION AND TRANSPORTATION BASED ON METAL FUEL AND CONDENSED PHASE REGENERATION, PRETREATMENT AND PRECIPITATION OF OXIDES OF MANGANESE	PAT PATENT COOPERATION TREATY APPLICATION
2003	HAMMEL, Charles F. ; BOREN, Richard M. ; TUZINSKI, Patrick A.;	PRETREATMENT AND REGENERATION OF OXIDES OF MANGANESE	PAT PATENT COOPERATION TREATY APPLICATION
2003	HAMMEL, Charles F. ; TUZINSKI, Patrick A. ; BOREN, Richard M.;	PRETREATMENT AND REGENERATION OF OXIDES OF MANGANESE	PAT PATENT COOPERATION TREATY APPLICATION
2003	Harman, Devon A.; Hager, John P.	Thermodynamic investigation of the stability of HgTe as related to the recovery of mercury from copper smelter acid-plant sludge using a vacuum retort reactor	EPD Congress 2003, Proceedings of Sessions and Symposia held during the TMS Annual Meeting, San Diego, CA, United States, Mar. 2-6, 2003 (2003), 157-170. Editor(s): Schlesinger, Mark E. Publisher: Minerals, Metals & Materials Society, Warrendale, Pa.
2003	Hartman, JD and Roskowski, AM and Reitmeier, ZJ and Tracy, KM and Davis, RF and Nemanich, RJ	Characterization of hydrogen etched 6H--SiC (0001) substrates and subsequently grown AlN films	Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films, Vol 21, pp 394
2003	Hashishin, T. and Yamamoto, T. and Ohyanagi, M. and Munir, Z.A.	Simultaneous synthesis and densification of titanium oxycarbide, Ti (C, O), through gas-solid combustion.	Journal of the American Ceramic Society, Vol 86, No 12, pp 2067-2073
2003	Haukka, Suvi P. ; Tuominen, Marko;	Methods for making a dielectric stack in an integrated circuit	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

2003	Hino, Junzo; Takeda, Yoichi	Distribution of metal values in pyrometallurgical recycling of copper from the waste	Metallurgical and Materials Processing: Principles and Technologies, Yazawa International Symposium, San Diego, CA, United States, Mar. 2-6, 2003 (2003), Volume 2, 545-556. Editor(s): Kongoli, Florian. Publisher: Minerals, Metals & Materials Society, Warrendale, Pa.
2003	Inoue, M.	Origin of the ion migration tendency for several metals in electronics packaging systems	Journal of Materials Science Letters, Vol 22, No 8, pp 607-609
2003	Järdnäs, A. and Svensson, J.E. and Johansson, L.G.	The Inhibitive Effect of Traces of SO ₂ on the Oxidation of Iron	Oxidation of Metals, Vol 60, No 5, pp 427-445
2003	Kahvecioglu, ö. and Derin, B. and Yücel, O.	Carbothermal recovery of zinc from brass ash	Mineral Processing and Extractive Metallurgy (Trans. Inst. Min. Metall. C), Vol 112, pp C95
2003	Karvinen, S.;	The effects of trace elements on the crystal properties of TiO ₂	Solid State Sciences, Vol 5, No 5, pp 811-819
2003	Kim, S.H. and Nam, K.T. and Datta, A. and Kim, H.M. and Kim, K.B. and Kang, D.H.	Multilayer diffusion barrier for copper metallization using a thin interlayer metal (M= Ru, Cr, and Zr) between two TiN films	Journal of Vacuum Science & Technology B: Microelectronics and Nanometer Structures, Vol 21, pp 804
2003	Kozinski, J.A. and Lobel, J.	Thermodynamic calculation on the smelting slag of direct recycling of electric arc furnace stainless steelmaking dust	JOURNAL OF CENTRAL SOUTH UNIVERSITY OF TECHNOLOGY (ENGLISH EDITION), Vol 10, No 1, pp 20-26
2003	KULKARNI, Nagraj;	PROCESS FOR LOW TEMPERATURE, DRY ETCHING, AND DRY PLANARIZATION OF COPPER	PAT PATENT COOPERATION TREATY APPLICATION
2003	Kureti, S. and Hizbullah, K. and Weisweiler, W.	Simultaneous Catalytic Removal of Nitrogen Oxides and Soot from Diesel Exhaust Gas over Potassium Modified Iron Oxide	Chemical Engineering & Technology, Vol 26, No 9, pp 1003-1006
2003	LAL, A.	EFFECT OF GAS COMPOSITION AND CARBON ACTIVITY ON THE GROWTH OF CARBON NANOTUBES	
2003	Lal, Archit.;	Effect of gas composition and carbon activity on the growth of carbon nanotubes	THES
2003	Liang, Ya.;	Carbon Dioxide Capture from Flue Gas Using Regenerable Sodium-Based Sorbents	THES
2003	Lillo, TM and Chu, HS and Bailey, DW and Harrison, WM and Laughton, DA	Development Of A Pressureless Sintered Silicon Carbide Monolith And Special-Shaped Silicon Carbide Whisker Reinforced Silicon Carbide Matrix Composite For Lightweight Armor Application.	Ceramic Transactions, pp 49-58
2003	Loewen, E.P. and Yount, H.J. and Volk, K. and Kumar, A.	Layer formation on metal surfaces in lead-bismuth at high temperatures in presence of zirconium	Journal of Nuclear Materials, Vol 321, No 2-3, pp 269-280
2003	Loewen, E.P.;Yount, H.J.;Volk, K.;Kumar, A.;	Layer formation on metal surfaces in lead-bismuth at high temperatures in presence of zirconium	Journal of Nuclear Materials, Vol 321, No 2, pp 269-280
2003	Mambote, R.C.M.;Krijgsman, P.;Reuter, M.A.;	Hydrothermal precipitation of arsenic compounds in the ferric-arsenic (III)-sulfate system: thermodynamic modeling	Minerals Engineering, Vol 16, No 5, pp 429-440
2003	MARITANO, Mauro ; DONETTI, Raffaella ; CAMPANA, Antonio ; PAVAN, Massimiliano ; SCORDAMAGLIA, Raimondo;	WATER-RESISTANT TELECOMMUNICATION CABLE	PAT PATENT COOPERATION TREATY APPLICATION
2003	Martnez-L., A.;Uribe S., A.;Carrillo P., F.R.;Coreno A., J.;Ortiz, J.C.;	Study of celestite flotation efficiency using sodium dodecyl sulfonate collector: factorial experiment and statistical...	International Journal of Mineral Processing, Vol 70, No 1, pp 83-97
2003	Mineralogist, A.	Thermal stability and vibrational spectra of the sheet borate tuzlaite, NaCa [B ₅ O ₈ (OH) ₂]{\textperiodcentered 3H ₂ O	American Mineralogist, Vol 88, No 2-3, pp 271-276
2003	Monteverde, F. and Bellosi, A.	Oxidation of-Based Ceramics in Dry Air	Journal of the Electrochemical Society, Vol 150, No 11, pp 552-559
2003	Muller, R.;Zedtwitz, P.v.;Wokaun, A.;Steinfeld, A.;	Kinetic investigation on steam gasification of charcoal under direct high-flux irradiation	Chemical Engineering Science, Vol 58, No 22, pp 5111-5119
2003	Neyestanaki, A.K.;Maki-Arvela, P.;Backman, H.;Karhu, H.;Salmi, T.;Vayrynen, J.;Murzin, D.Y.;	Kinetics and stereoselectivity of o-xylene hydrogenation over Pd/Al ₂ O ₃	Journal of Molecular Catalysis A: Chemical, Vol 193, No 1, pp 237-250
2003	Nicol, MJ and Guresin, N.	Anodic behaviour of arsenopyrite and cathodic reduction of ferrate (VI) and oxygen in alkaline solutions	Journal of Applied Electrochemistry, Vol 33, No 11, pp 1017-1024
2003	Oku, T. and Hiraga, K. and Matsuda, T. and Hirai, T. and Hirabayashi, M.	Formation and structures of multiply-twinned nanoparticles with fivefold symmetry in chemical vapor deposited boron nitride	Diamond & Related Materials, Vol 12, No 10-11, pp 1918-1926

2003	Oku, T.;Hiraga, K.;Matsuda, T.;Hirai, T.;Hirabayashi, M.;	Formation and structures of multiply-twinned nanoparticles with fivefold symmetry in chemical vapor deposited boron...	Diamond and Related Materials, Vol 12, No 10, pp 1918-1926
2003	Opalka, S.M.;Anton, D.L.;	First principles study of sodium-aluminum-hydrogen phases	Journal of Alloys and Compounds, Vol 356, No ., pp 486-489
2003	Park, Sang-Eon ; Chang, Jong-San ; Park, Min Seok ; Yoo, Jin S.;	Method for catalytic dehydrogenation of hydrocarbons using carbon dioxide as a soft oxidant	PAT EUROPEAN PATENT
2003	Partenov, D.; Stefanova, V.; Trifonov, Y.; Avramov, A.	Research of drying conditions and reduction for the Pacific Ocean polymetallic nodules	Journal of the University of Chemical Technology and Metallurgy (2003), 38(4), 1105-1110
2003	Partenov, D.; Stefanova, V.; Trifonov, Y.; Avramov, A.	Research of drying conditions and reduction for the Pacific Ocean polymetallic nodules	Journal of the University of Chemical Technology and Metallurgy (2003), 38(4), 1105-1110
2003	Reddy, R.G. and Antony, L.V.M.	The Thermal Plasma Processing of Fine Powders	JOM
2003	Reddy, RG	Processing Of Nanoscale Materials.	Reviews on Advanced Materials Science, Vol 5, No 2, pp 121-133
2003	Rhodes, WD	Use of Modeling for the Prevention of Solids Formation During Canyon Processing of Legacy Nuclear Materials at the Savannah River Site	AIChE Spring National Conference, New Orleans, LA (US), 03/30/2003--04/03/2003
2003	Ruettinger, W. and Ilinich, O. and Farrauto, R.J.	A new generation of water gas shift catalysts for fuel cell applications.	Journal of Power Sources, Vol 118, No 1, pp 61-65
2003	Saanila, Ville Antero ; Elers, Kai-Erik ; Kaipio, Sari Johanna ; Soininen, Pekka Juha;	Process for growing metalloid thin films utilizing boron-containing reducing agents	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2003	Saiz, E. and Hwang, CW and Suganuma, K. and Tomsia, A.P.	Spreading of Sn-Ag solders on FeNi alloys	Acta Materialia, Vol 51, No 11
2003	Sasaki, K.; Teraoka, Y.	Equilibria in Fuel Cell Gases	Journal of the Electrochemical Society (2003), 150(7), A878-A884
2003	Savov, L. and Garonin, S. and Ivanov, O. and Yusfin, YS and Janke, D.	A STUDY ON THE BEHAVIOUR OF GALLIUM IN THE IRONMAKING PROCESS	???? (???) , Vol 16, No 2
2003	Scheffler, M. and Demovsek, O. and Schwarze, D. and Bressiani, AHA and Bressiani, JC and Acchar, W. and Greil, P.	Polymer/filler derived NbC composite ceramics	Journal of Materials Science, Vol 38, No 24, pp 4925-4931
2003	Shamsi, A.;Johnson, C.D.;	Effect of pressure on the carbon deposition route in CO2 reforming of CH_4	Catalysis Today, Vol 84, No 1, pp 17-25
2003	SRINIVAS, Girish ; GEBHARD, Steven, Charles ; KARPUR, Michael E.;	CATALYSTS AND PROCESS FOR OXIDIZING HYDROGEN SULFIDE TO SULFUR DIOXIDE AND SULFUR	PAT PATENT COOPERATION TREATY APPLICATION
2003	Stefanova, V.; Trifonov, Y.; Stefanov, B.	Modelling investigation on the equilibrium composition of copper sulfide concentrates under flash smelting conditions	Journal of the University of Chemical Technology and Metallurgy (2003), 38(4), 1155-1162
2003	Sughrue, Edward L. ; Johnson, Marvin J. ; Dodwell, Glenn W. ; Reed, Larry E. ; Bares, Joseph E. ; Gislason, Jason J. ; Morton, Robert W. ; Malandra, James L.;	Desulfurization and sorbents for same	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2003	SUGHRUE, Edward L. ; JOHNSON, Marvin M. ; DODWELL, Glenn W. ; REED, Larry E. ; BARES, Joseph E. ; GISLASON, Jason J. ; MORTON, Robert W. ; MALANDRA, James L.;	DESULFURIZATION AND SORBENTS FOR SAME	PAT PATENT COOPERATION TREATY APPLICATION
2003	Swinbourne, DR and Yan, S. and Hoang, G. and Higgins, D.	Thermodynamic modelling of cupellation: activity of AgO	Mineral Processing and Extractive Metallurgy (Trans. Inst. Min. Metall. C), Vol 112, pp C69
2003	Sørensen, Lasse Holst ; Fjellerup, Jan ; Henriksen, Ulrik;	Method for reducing agglomeration, sintering and deposit formation in gasification and combustion of biomass	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2003	Taber, K.S.	Mediating mental models of metals: Acknowledging the priority of the learner's prior learning	Science Education, Vol 87, No 5, pp 732-758
2003	Tailoka, F. and Kumar, RV and Fray, DJ	Mechanism of chlorination of tin in air and its application to steel can recycling	Ironmaking & Steelmaking, Vol 30, No 5, pp 391-395

- 2003 Teo, K.B.K. and Singh, C. and Chhowalla, M. and Milne, W.I. Catalytic Synthesis of Carbon Nanotubes and Nanofibers Encyclopedia of Nanoscience and Nanotechnology. California: American Scientific Publ
- 2003 Todaka, Y. and Tsuchiya, K. and Umemoto, M. and Sasaki, M. and Imai, D. Growth of Fe₃O₄ whiskers from solid solution nanoparticles of Fe--Cu and Fe--Ag systems produced by DC plasma jet method Materials Science & Engineering A, Vol 340, No 1-2, pp 114-122
- 2003 Tomic, M. B.; Dimitrijevic, R. Z.; Mitrovic, M. M. The crystallization of calcium phosphate glass with the ratio [CaO]/[P₂O₅] Journal of Materials Science (2003), 38(9), 1983-1994
- 2003 Treptow, R.S. Lithium Batteries: A Practical Application of Chemical Principles JOURNAL OF CHEMICAL EDUCATION, Vol 80, No 9, pp 1015-1020
Oak Ridge National Laboratory
- 2003 Trowbridge, LD and Toth, LM and Collins, ED Molten Hydroxide Trapping Process for Radioiodine Materials Science & Engineering A, Vol 346, No 1-2, pp 168-177
- 2003 Uusitalo, MA and Vuoristo, P.M.J. and Mäntylä, TA High temperature corrosion of coatings and boiler steels in oxidizing chlorine-containing atmosphere
- 2003 UZUNT{\u{G}}RYAK{\u{G}}, E. EFFECTIVENESS OF CONSTRUCTIVIST APPROACH ON STUDENTS' UNDERSTANDING OF CHEMICAL BONDING CONCEPTS Research in Science & Technological Education, Vol 21, No 2, pp 159-175
- 2003 Valanides, N. and Nicolaidou, A. and Eilks, I. Twelfth grade students' understanding of oxidation and combustion: using action research to improve teachers' practical knowledge and teaching practice
- 2003 Van Hinsberg, V.J.; Zinngrebe, E.; de Wijs, C.J.; Vriend, S.P.; Wang, H. and Dalla Lana, I.G. and Chuang, K.T. A new model for Sb deposition in the French Massif Central based upon thermodynamic modeling of the mineralizing fluid Journal of Geochemical Exploration, Vol 78, No ., pp 75-79
- 2003 Wang, H. and Dalla Lana, I.G. and Chuang, K.T. Thermodynamics and Stoichiometry of Reactions between Hydrogen Sulfide and Concentrated Sulfuric Acid The Canadian Journal of Chemical Engineering, Vol 81, pp 81
- 2003 Vaughan, J. and Reid, P. and Alfantazi, A. and Dreisinger, D. and Tromans, D. Corrosion of titanium and Ti-alloys at high temperatures and pressures. International Symposium on Environmental Degradation of Materials and Corrosion Control in Metals as held at the 42 nd Annual Conference of Metallurgists of CIM(COM 2003), pp 423-432
- 2003 Wen, Y.; Xiang, L.; Jin, Y.; Synthesis of plate-like calcium carbonate via carbonation route Materials Letters, Vol 57, No 16, pp 2565-2571
- 2003 Vracar, R. and Saljic, L. and Sokic, M. and Matkovic, V. and Radosavljevic, S. Chemical-technological processing of the complex barite-sulphide ore Scandanavian Journal of Metallurgy, Vol 32, No 6, pp 289
- 2003 Vracar, R.Z.; Vuckovic, N.; Kamberovic, Z.; Leaching of copper(I) sulphide by sulphuric acid solution with addition of sodium nitrate Hydrometallurgy, Vol 70, No 1, pp 143-151
- 2003 Vuorilehto, K. An environmentally friendly water-activated manganese dioxide battery Journal of Applied Electrochemistry, Vol 33, No 1, pp 15-21
- 2003 Xiang, L.; Jin, Y. C.; Jin, Y. Hydrothermal formation of dispersive Mg(OH)₂ particles in NaOH solution Hydrothermal Reactions and Techniques, Proceedings of the International Symposium on Hydrothermal Reactions, 7th, Changchun, China, Dec. 14-18, 2003 (2003), 305-311. Editor(s): Feng, Shou-Hua; Chen, Jie-Sheng; Shi, Zhan. Publisher: World Scientific Publishing Co. Pte. Ltd., Singapore, Singapore.
- 2003 Yamanaka, S.; Kurosaki, K.; Matsuda, T.; Kobayashi, S.I. Thermal properties of SrCeO₃ Journal of Alloys and Compounds, Vol 352, No 1, pp 52-56
- 2003 Yan, S. and Swinbourne, DR Distribution of germanium under lead smelting conditions Mineral Processing and Extractive Metallurgy (Trans. Inst. Min. Metall. C), Vol 112, pp C75
- 2003 Yang, Z. and Stevenson, J.W. and Meinhardt, K.D. Chemical interactions of barium--calcium--aluminosilicate-based sealing glasses with oxidation resistant alloys Solid State Ionics, Vol 160, No 3-4, pp 213-225
- 2003 Yi, K.B. Ceria-Zirconia Oxide High Temperature Desulfurization Sorbent
- 2003 Zedtwitz, P.v.; Steinfeld, A.; The solar thermal gasification of coal - energy conversion efficiency and CO₂ mitigation potential Energy, Vol 28, No 5, pp 441-456
- 2003 Zeschky, J.; Goetz-Neunhoeffer, F.; Neubauer, J.; Jason Lo, S.H.; Kummer, B.; Scheffler, M.; Greil, P.; Pre-ceramic polymer derived cellular ceramics Composites Science and Technology, Vol 63, No 16, pp 2361-2370
- 2002 Aich, S. and Chandran, KSR TiB Whisker Coating on Titanium Surfaces by Solid-State Diffusion: Synthesis, Microstructure, and Mechanical Properties Metallurgical and Materials Transactions A, Vol 33, No 11, pp 3489-3498
- 2002 Amberntsson, A.; Skoglundh, M.; Jonsson, M.; Fridell, E.; Investigations of sulphur deactivation of NO_x storage catalysts: influence of sulphur carrier and exposure conditions Catalysis Today, Vol 73, No 3, pp 279-286
- 2002 Anderson, RP and Fincke, JR and Taylor, CE Conversion of natural gas to liquids via acetylene as an intermediate Fuel, Vol 81, No 7, pp 909-925

2002	Breen, JP and Marella, M. and Pistarino, C. and Ross, JRH	Sulfur-Tolerant NO _x Storage Traps: An Infrared and Thermodynamic Study of the Reactions of Alkali and Alkaline-Earth Metal Sulfates	Catalysis Letters, Vol 80, No 3, pp 123-128
2002	Brown, LC and BESENBRUCH, GE and SCHULTZ, KR and SHOWALTER, SK and MARSHALL, AC and PICKARD, PS and FUNK, JF	High Efficiency Generation Of Hydrogen Fuels Using Thermochemical Cycles And Nuclear Power	Technical Workshop on " Large Scale Production of Hydrogen from Nuclear Power-Fission and Fusion" May, pp 14-15
2002	Carlsson, M. and Alberius-Henning, P. and Johnsson, M.	Vapour-liquid-solid growth of TiB ₂ whiskers	Journal of Materials Science, Vol 37, No 14, pp 2917-2925
2002	Carlsson, M.;Garca-Garca, F.J.;Johnsson, M.;	Synthesis and characterisation of boron carbide whiskers and thin elongated platelets	Journal of Crystal Growth, Vol 236, No 1, pp 466-476
2002	Chen, G.Z. and Fray, D.J.	Voltammetric Studies of the Oxygen-Titanium Binary System in Molten Calcium Chloride	Journal of the Electrochemical Society, Vol 149, No 11, pp 455-467
2002	COLL, R.K.	Exploring Tertiary Students' Understanding of Covalent Bonding	Research in Science & Technological Education, Vol 20, No 2, pp 241-267
2002	Coll, R.K. and Taylor, N.	Mental models in chemistry: Senior chemistry students' mental models of chemical bonding	Chemistry Education: Research and Practice in Europe, Vol 3, No 2, pp 175-184
2002	de Wild, PJ and Cobden, PD and de Bruijn, FA and Fuels, E.C.N.C.F. and Technologies, H. and Catalysis, A. and van der Klein, CAM	SULPHUR REMOVAL FROM NATURAL GAS FOR PEMFC-BASED MICRO COMBINED HEAT AND POWER	
2002	Derin, B. and Yücel, O.	The distribution of cobalt between Co-Cu alloys and Al ₂ O ₃ -FeO-Fe ₂ O ₃ -SiO ₂ slags	Scandinavian Journal of Metallurgy, Vol 31, pp 12-19
2002	Elers, K.E. and Saanila, V. and Soininen, P.J. and Li, W.M. and Kostamo, J.T. and Haukka, S. and Juhanoja, J. and Besling, W.F.A.	Diffusion Barrier Deposition on a Copper Surface by Atomic Layer Deposition	Chemical Vapor Deposition(Germany), Vol 8, No 4, pp 149-153
2002	ELERS, Kai-Erik ; HAUKKA, Suvi, Päivikki ; SAANILA, Ville, Antero ; KAIPIO, Sari, Johanna ; SOININEN, Pekka, Juha;	METHOD OF DEPOSITING TRANSITION METAL NITRIDE THIN FILMS	PAT EUROPEAN PATENT
2002	Elers, Kai-Erik ; Saanila, Ville Antero ; Kaipio, Sari Johanna ; Soininen, Pekka Juha;	Production of elemental thin films using a boron-containing reducing agent	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2002	ELERS, Kai-Erik;	METHOD OF MODIFYING SOURCE CHEMICALS IN AN ALD PROCESS	PAT EUROPEAN PATENT
2002	EL-NAAS, M.H.	A Novel Plasma Technique to Stimulate Tight Carbonate Rocks	Energy Sources, Vol 24, No 3, pp 181-194
2002	Erola, Hanna	Distribution of elements between metal, slag and gas phases - application to certain commonly used radioactive materials	Helsinki University of Technology Publications in Materials Science and Metallurgy (2002), TTK-MK-141, Seminar Course on Advanced Metallurgical Processes, 2002, 40-45
2002	Feng, D.;van Deventer, J.S.J.;	The role of heavy metal ions in gold dissolution in the ammoniacal thiosulphate system	Hydrometallurgy, Vol 64, No 3, pp 231-246
2002	Furtado, Thiago Luiz Coelho; Mendes, Flavia Dutra; Martins, Afonso	Eh versus pH diagrams applied to the extraction of nickel and cobalt from the Niquel do Vermelho(PA) laterite ore leach liquor	Congresso Anual - Associacao Brasileira de Metalurgia e Materiais (2002), 57th, 2306-2315
2002	Gasik, M.I. (NMeAU, Dnepropetrovsk, Ukraine); Gasik, M.M.; Zubov, V.L.;	Hydrogen influence on component stability in condensed phase.	Stal' n 12 2002.p 30-35
2002	Gasik, MI and Gasik, MM and Zubov, VL and Polyakov, OI	Hydrogen influence on component stability in condensed phase.	Stal', No 12, pp 30-35
2002	Green, D.A. and Turk, B.S. and Portzer, J.W. and Gupta, R.P. and McMichael, W.J. and Liang, Y. and Harrison, D.P.	CARBON DIOXIDE CAPTURE FROM FLUE GAS USING DRY REGENERABLE SORBENTS	FC26-00NT40923--07, National Energy Technology Lab., Pittsburgh, PA (US); National Energy Technology Lab., Morgantown, WV (US)
2002	Halmann, M. and Frei, A. and Steinfeld, A.	Thermo-neutral production of metals and hydrogen or methanol by the combined reduction of the oxides of zinc or iron with partial oxidation of hydrocarbons	Energy, Vol 27, No 12, pp 1069-1084
2002	Halmann, M.;Frei, A.;Steinfeld, A.;	Thermo-neutral production of metals and hydrogen or methanol by the combined reduction of the oxides of zinc or iron...	Energy, Vol 27, No 12, pp 1069-1084

2002	Han, G. and Cho, WD	High-Temperature Corrosion of Fe 3 Al in 1% Cl 2/Ar	Oxidation of Metals, Vol 58, No 3, pp 391-413
2002	Hassani, S. and Tromson-Carli, A. and Lusson, A. and Didier, G. and Triboulet, R.	C and CH 4 as Transport Agents for the CVT Growth of ZnO Crystals	physica status solidi(b), Vol 229, No 2, pp 835-839
2002	HAUKKA, Suvii ; SKARP, Jarmo ; TUOMINEN,	DIELECTRIC INTERFACE FILMS AND METHODS THEREFOR	PAT PATENT COOPERATION TREATY APPLICATION
2002	Hay, S. J.; Hyland, M. M.; Metson, J. B.; Bade, O. M.	The influence of dry scrubber alumina and humidity on COS smelter emissions	Light Metals (Warrendale, PA, United States) (2002) 289-295
2002	He, P. and Liu, M. and Luo, JL and Sanger, AR and Chuang, KT	Stabilization of Platinum Anode Catalyst in a Solid Oxide Fuel Cell with an Intermediate Layer	Journal of the Electrochemical Society, Vol 149, No 7, pp 808-814
2002	HUJANEN, Juha ; RAAIJMAKERS, Ivo;	THIN FILMS FOR MAGNETIC DEVICES	PAT PATENT COOPERATION TREATY APPLICATION
2002	Johnson, A.A. and Ziock, H.J.	Variations on Zero Emission Carbon	International Conference on Clean Coal Technologies for Our Future (CCT-2002): London, UK and Los Alamos, NM, IEA Clean Coal Centre Bull. Korean Chem. Soc, Vol 23, No 5, pp 675
2002	Jong-San Chang, H.S.R. and Park, M.S. and Park, S.E.	Propane Dehydrogenation over a Hydrogen Permselective Membrane Reactor	
2002	Kantar, C.;	Solution and flotation chemistry of enargite	Colloids and Surfaces A: Physicochemical and Engineering Aspects, Vol 210, No 1, pp 23-31
2002	Kukli, K. and Ritala, M. and Uustare, T. and Aarik, J. and Forsgren, K. and Sajavaara, T. and Leskelä, M. and Harsta, A.	Influence of thickness and growth temperature on the properties of zirconium oxide films grown by atomic layer deposition on silicon	Thin Solid Films, Vol 410, No 1-2, pp 53-60
2002	Kukli, K.;Ritala, M.;Uustare, T.;Aarik, J.;Forsgren, K.;Sajavaara, T.;Leskela, M.;Harsta, A.;	Influence of thickness and growth temperature on the properties of zirconium oxide films grown by atomic layer...	Thin Solid Films, Vol 410, No 1, pp 53-60
2002	Kulkarni, N.S. and DeHoff, R.T.	Application of Volatility Diagrams for Low Temperature, Dry Etching, and Planarization of Copper	Journal of the Electrochemical Society, Vol 149, No 11, pp 620-632
2002	LIN, H.S. and YANG, T.C. and Chiu, HL and Chou, CY	Students'Difficulties in Learning Electrochemistry	PROCEEDINGS-NATIONAL SCIENCE COUNCIL REPUBLIC OF CHINA PART D MATHEMATICS SCIENCE AND TECHNOLOGY EDUCATION, Vol 12, No 3, pp 100-105
2002	Lin, S.;Harada, M.;Suzuki, Y.;Hatano, H.;	Hydrogen production from coal by separating carbon dioxide during gasification	Fuel, Vol 81, No 16, pp 2079-2085
2002	Lopez-Anton, M.A.;Tascon, J.M.D.;Martnez-Tarazona, M.R.;	Retention of mercury in activated carbons in coal combustion and gasification flue gases	Fuel Processing Technology, Vol 77, No ., pp 353-358
2002	Luiz Fernando Brum Malta*; Tsuneharu Ogasawara	Degradation of some ceria electrolytes under hydrogen contact nearby anode in solid oxide fuel cells (SOFCs)	International Symposium on High Temperature Corrosion in Energy Related Systems, Angra dos Reis - RJ, September 2002
2002	Lynch, DC	Conversion of VOCl 3 to VOCl 2 in Liquid TiCl 4	Metallurgical and Materials Transactions B, Vol 33, No 1, pp 142-146
2002	Matsumoto, T.;Periana, R.A.;Taube, D.J.;Yoshida, H.;	Regioselective hydrophenylation of olefins catalyzed by an Ir(III) complex	Journal of Molecular Catalysis A: Chemical, Vol 180, No 1, pp 1-18
2002	MILLER, J.E. and EVANS, L. and MUDD, J.E. and BROWN, K.A.	Batch Microreactor Studies of Lignin Depolymerization by Bases. 2. Aqueous Solvents	SAND2002-1317, May
2002	Monteverde, F. and Bellosi, A.	Effect of the addition of silicon nitride on sintering behaviour and microstructure of zirconium diboride	Scripta Materialia, Vol 46, No 3, pp 223-228
2002	Monteverde, F. and Medri, V. and Bellosi, A.	Microstructural Evolution of Titanium Carbonitride Based Materials During Oxidation	Microchimica Acta, Vol 139, No 1, pp 97-103
2002	Monteverde, F. and Medri, V. and Bellosi, A.	Microstructure of hot-pressed Ti (C, N)-based cermets	Journal of the European Ceramic Society, Vol 22, No 14-15, pp 2587-2593
2002	Olander, D.;	Redox condition in molten fluoride salts - Definition and control	Journal of Nuclear Materials, Vol 300, No 2, pp 270-272
2002	Orthner, H.R.;Tomasi, R.;Botta F., W.J.;	Reaction sintering of titanium carbide and titanium silicide prepared by high-energy milling	Materials Science and Engineering: A, Vol 336, No 1, pp 202-208
2002	Palmer, RA and Doan, TM and Lloyd, PG and Jarvis, BL and Ahmed, NU	Reduction of TiO 2 with Hydrogen Plasma	Plasma Chemistry and Plasma Processing, Vol 22, No 3, pp 335-350
2002	Pedraza, F. and Román, E. and Cristóbal, MJ and Hierro, MP and Pérez, FJ	Effects of yttrium and erbium ion implantation on the AISI 304 stainless steel passive layer	Thin Solid Films, Vol 414, No 2, pp 231-238

2002	Pedraza, F.;Roman, E.;Cristobal, M.J.;Hiero, M.P.;Perez, F.J.;	Effects of yttrium and erbium ion implantation on the AISI 304 stainless steel passive layer	Thin Solid Films, Vol 414, No 2, pp 231-238
2002	Rahtu, A. and Ritala, M.	Reaction mechanism studies on the zirconium chloride--water atomic layer deposition process	J. Mater. Chem, Vol 12, pp 1484-1489
2002	Ramos, T.; Atkinson, A.	Mass transport in oxides for membrane reforming of methane	Proceedings - Electrochemical Society (2002), Volume Date 2001, 2001-28(Ionic and Mixed Conducting Ceramics), 352-367
2002	Ramrez-Cabrera, E.;Atkinson, A.;Chadwick, D.;	Reactivity of ceria, Gd- and Nb-doped ceria to methane	Applied Catalysis B: Environmental, Vol 36, No 3, pp 193-206
2002	Sato, Motoaki ; Robbins, Eleanor I.;	Recovery/removal of metallic elements from waste water using ozone	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2002	Shettlemore, M.G. and Bundy, K.J.	Assessment of dental material degradation product toxicity using a bioluminescent bacterial assay	Dental Materials, Vol 18, No 6, pp 445-453
2002	Shibuya, M. and Ohyanagi, M. and Munir, Z.A.	Simultaneous synthesis and densification of titanium nitride/titanium diboride composites by high nitrogen pressure combustion	Journal of the American Ceramic Society, Vol 85, No 12, pp 2965-2970
2002	Soltanieh, M.; Karimi, Y.; Vahdati, J.; Niknejad, E.	Using natural gas for the reduction of copper in anode furnace	New Technology Implementation in Metallurgical Processes, Proceedings of the International Symposium on New Technology Implementation in Metallurgical Processes, Montreal, QC, Canada, Aug. 11-14, 2002 (2002), 97-106. Editor(s): Kapusta, Joel. Publisher: Canadian Institute of Mining, Metallurgy and Petroleum, Montreal, Que. J. Mater. Res, Vol 17, No 5, pp 952
2002	Stathis, G. and Simwonis, D. and Tietz, F. and Moropoulou, A. and Naoumides, A.	Oxidation and resulting mechanical properties of Ni/8Y 2 O 3-stabilized zirconia anode substrate for solid-oxide fuel cells	J. Mater. Res, Vol 17, No 5, pp 952
2002	Tan, K.C.D. and Goh, N.K. and Chia, L.S. and Treagust, D.F.	Development and application of a two-tier multiple choice diagnostic instrument to assess high school students' understanding of inorganic chemistry qualitative analysis	Journal of Research in Science Teaching, Vol 39, No 4, pp 283-301
2002	Themelis, N.J. and Kim, Y.H.	Material and energy balances in a large-scale aerobic bioconversion cell	Waste Management & Research, Vol 20, No 3, pp 234-242
2002	Themelis, N.J. and Kim, Y.H. and Brady, M.H.	Energy recovery from New York City municipal solid wastes	Waste Management & Research, Vol 20, No 3, pp 223-233
2002	Uusitalo, M.A.;Vuoristo, P.M.J.;Mantyla, T.A.;	High temperature corrosion of coatings and boiler steels in reducing chlorine-containing atmosphere	Surface and Coatings Technology, Vol 161, No 2, pp 275-285
2002	Uusitalo, MA and Vuoristo, P.M.J. and Mäntylä, TA	High temperature corrosion of coatings and boiler steels in reducing chlorine-containing atmosphere	Surface & Coatings Technology, Vol 161, No 2-3, pp 275-285
2002	van der Weijden, R.D.;Mahabir, J.;Abadi, A.;Reuter, M.A.;	Copper recovery from copper(II) sulfate solutions by reduction with carbohydrates	Hydrometallurgy, Vol 64, No 2, pp 131-146
2002	Wasserman, AA and Melosh, HJ and Laurretta, DS	FULGURITES: A LOOK AT TRANSIENT HIGH TEMPERATURE PROCESSES IN SILICATES	33rd Annual Lunar and Planetary Science Conference, March 11-15, 2002, Houston, Texas, abstract no. 1308
2002	Welham, N.J.;	Activation of the carbothermic reduction of manganese ore	International Journal of Mineral Processing, Vol 67, No 1, pp 187-198
2002	Wickham, David T. ; Engel, Jeffrey ; Karpuk, Michael E.;	Methods for suppression of filamentous coke formation	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2002	Volynsky, A.B.;Wennrich, R.;	Mechanisms of the action of platinum metal modifiers in electrothermal atomic absorption spectrometry: aims and...	Spectrochimica Acta Part B: Atomic Spectroscopy, Vol 57, No 8, pp 1301-1316
2002	YAN, S. and SWINBOURNE, D.R.	The behaviour of germanium in lead/zinc smelting'	Proc. 9 thAPCChE/Chemeca Conf., Christchurch, New Zealand
2002	Zhang, Z.;Zhang, Y.;Muhammed, M.;	The reduction of cobalt doped ammonium paratungstate to nanostructured W-Co powder	International Journal of Refractory Metals and Hard Materials, Vol 20, No 3, pp 227-233
2002	Zilbergleyt, B.	DYNAMIC APPROACH TO THERMODYNAMIC SIMULATION OF CHEMICAL SYSTEMS: FROM TRUE EQUILIBRIUM TO TRUE CHAOS.	MMT-2002: Second International Conference on Mathematical Modeling and Computer Simulation of Metal Technologies, pp 1
2001	@?9kesson Nilsson, G.;Nilsson, O.;Odenbrand, I.;Wesen, C.;	New halogen-specific detector applied to the analysis of chlorinated fatty acids	Journal of Chromatography A, Vol 912, No 1, pp 99-106
2001	Andrei B Utkin ; Victor M B Oliveira ; Rui M C S Vilar;	Two-component finite-volume scheme for modelling the initial stage of Al2O3-TiC laser processing	Modelling and Simulation in Materials Science and Engineering, Vol 9, No 6, pp 513-524
2001	ARII, T. and KISHI, A. and OGAWA, M. and SAWADA, Y.	Thermal Decomposition of Cerium (III) Acetate Hydrate by a Three-dimensional Thermal Analysis	Analytical Sciences, Vol 17, No 7, pp 875-880
2001	Atkinson, A. and Chater, RJ and Rudkin, R.	Oxygen diffusion and surface exchange in La0. 8Sr0. 2Fe0. 8Cr0. 2O3- δ under reducing conditions	Solid State Ionics, Vol 139, No 3-4, pp 233-240

2001	Aylmore, M.G.;Muir, D.M.;	Thiosulfate Leaching of Gold-A Review	Minerals Engineering, Vol 14, No 2, pp 135-174
2001	Aylmore^1, M.G.;Lincoln, F.J.;	Mechanochemical milling-induced reactions between gases and sulfide minerals: II. Reactions of CO ² with arsenopyrite,...	Journal of Alloys and Compounds, Vol 314, No 1, pp 103-113
2001	Banovic, SW and Dupont, JN and Marder, AR	Experimental evaluation of Fe-Al claddings in high-temperature sulfidizing environments	Welding Journal(USA), Vol 80, No 3, pp 63
2001	Carrillo-Heian, E.M. and Carpenter, R.D. and Paulino, G.H. and Gibeling, J.C. and Munir, Z.	DENSE LAYERED MOLYBDENUM DISILICIDE-SILICON CARBIDE FUNCTIONALLY GRADED COMPOSITES FORMED BY FIELD-ACTIVATED SYNTHESIS	J. Am. Ceram. Soc., Vol 84, No 5, pp 962-968
2001	Chen, GZ and Fray, DJ	Cathodic refining in molten salts: Removal of oxygen, sulfur and selenium from static and flowing molten copper	Journal of Applied Electrochemistry, Vol 31, No 2, pp 155-164
2001	COLL, R.K.	Alternative Conceptions of Chemical Bonding Held by Upper Secondary and Tertiary Students	Research in Science & Technological Education, Vol 19, No 2, pp 171-191
2001	Dijs, I.J. and de Koning, R. and Geus, J.W. and Jenneskens, L.W.	Anhydrous zirconium (IV) sulfate and tin (IV) sulfate: solid Lewis acid catalysts in liquid-phase hydroacyloxy-addition reactions?	PHYSICAL CHEMISTRY CHEMICAL PHYSICS-CAMBRIDGE-ROYAL SOCIETY OF CHEMISTRY, Vol 3, pp 4423-4429
2001	Domokos, L.;Lefferts, L.;Seshan, K.;Lercher, J.A.;	Isomerization of Linear Butenes to iso-Butene over Medium Pore Zeolites - I. Kinetic Aspects of the Reaction over H-FER	Journal of Catalysis, Vol 197, No 1, pp 68-80
2001	Ebenezer, J.V.	A Hypermedia Environment to Explore and Negotiate Students' Conceptions: Animation of the Solution Process of Table Salt	Journal of Science Education and Technology, Vol 10, No 1, pp 73-92
2001	ELERS, Kai-Erik ; HAUKKA, Suvi, Päivikki ; SAANILA, Ville, Antero ; KAIPPIO, Sari, Johanna ; SOININEN, Pekka, Juha;	METHOD OF DEPOSITING TRANSITION METAL NITRIDE THIN FILMS	PAT PATENT COOPERATION TREATY APPLICATION
2001	ELERS, Kai-Erik;	METHOD OF MODIFYING SOURCE CHEMICALS IN AN ALD PROCESS	PAT PATENT COOPERATION TREATY APPLICATION
2001	Epstein, M. and Yogev, A. and Yao, C. and Berman, A.	Carbothermal reduction of alkali hydroxides using concentrated solar energy	Energy, Vol 26, No 5, pp 441-455
2001	erforderliche zusätzliche Raum, L.W.	2 Prinzipielle Eignung von festem Harnstoff als Ammoniakquelle	Chemie Ingenieur Technik, Vol 73, pp 7
2001	Funk, A.	Untersuchung des Snr-verfahrens am Dieselmotor	Universitätsbibliothek u. Technische Informationsbibliothek
2001	Gonzalez, J. and Ruiz, M.D.C. and Pasquevich, D. and Bohé, A.	Formation of niobium-tantalum pentoxide orthorhombic solid solutions under chlorine-bearing atmospheres	Journal of Materials Science, Vol 36, No 13, pp 3299-3311
2001	Hall, M. M., Jr.; Symons, D. M.	Hydrogen assisted creep fracture model for low potential stress corrosion cracking of Ni-Cr-Fe alloys	Chemistry and Electrochemistry of Corrosion and Stress Corrosion Cracking: A Symposium Honoring the Contributions of R. W. Staehle, Proceedings of Symposium, New Orleans, LA, United States, Feb. 11-15, 2001 (2001), 447-466. Editor(s): Jones, Russell H. Publisher: Minerals, Metals & Materials Society, Warrendale, Pa.
2001	Harrison, A.G. and Treagust, D.F.	Conceptual change using multiple interpretive perspectives: Two case studies in secondary school chemistry	Instructional Science, Vol 29, No 1, pp 45-85
2001	Holder, John ; Joslin, Steven ; Korb, Harold;	Process and apparatus for preparation of silicon crystals with reduced metal content	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2001	HOLDER, John D. ; JOSLIN, Steven M. ; KORB, Harold W.;	PROCESS AND APPARATUS FOR PREPARATION OF SILICON CRYSTALS WITH REDUCED METAL CONTENT	PAT EUROPEAN PATENT
2001	Hufton, Jeffrey Raymond ; Sircar, Shivaji ; Baade, William Frederick ; Abrardo, Joseph Michael ; Anand, Madhu;	Integrated steam methane reforming process for producing carbon monoxide	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
2001	Hutchins, M.G.;Butt, N.S.;Topping, A.J.;Gallego, J.;Milne, P.;Jeffrey, D.;Brotherston, I.;	Infrared reflectance modulation in tungsten oxide based electrochromic devices	Electrochimica Acta, Vol 46, No 13, pp 1983-1988
2001	Jacobson, N.	Use of Tabulated Thermochemical Data for Pure Compounds	JOURNAL OF CHEMICAL EDUCATION, Vol 78, No 6, pp 814-819
2001	Julsing, H.G. and McCrindle, R.I.	The use of sodium formate for the recovery of precious metals from acidic base metal effluents	Journal of Chemical Technology and Biotechnology, Vol 76, No 4, pp 349-54
2001	Klemola, K. and Turunen, I.	State of Mathematical Modelling and Simulation in the Finnish Process Industry, Universities and Research Centres	Technology Review, Vol 107, pp 2001

2001	Klingstedt, F.;Neyestanaki, A.K.;Byggningsbacka, R.;Lindfors, L.-E.;Lunden, M.;Petersson, M.;Tengstrom, P.;Ollonqvist, T.;Vayrynen, J.;	Palladium based catalysts for exhaust aftertreatment of natural gas powered vehicles and biofuel combustion	Applied Catalysis A: General, Vol 209, No 1, pp 301-316
2001	Kobelke, J. and Kirchhof, J. and Schuster, K. and Schwuchow, A.	Effects of carbon, hydrocarbon and hydroxide impurities on praseodymium doped arsenic sulfide based glasses	Journal of Non-Crystalline Solids, Vol 284, No 1-3, pp 123-127
2001	Kotzeva, V.P. and Kumar, R.V.	The influence of CO ₂ on CO detection with YSZ oxygen sensor	Ionics, Vol 7, No 1, pp 85-87
2001	Kozinski, J.A. and Lobel, J. and Chuan-fu, Z. and Ji, P. and Bing, P.	Thermodynamics calculation on the oxidation and sulfur removal abilities of slag in EAF dust pellet reduction process	???????? (???), Vol 8, No 01
2001	Kräupl, S. and Steinfeld, A.	Pulsed Gas Feeding for Stoichiometric Operation of a Gas-Solid Vortex Flow Solar Chemical Reactor	Journal of Solar Energy Engineering, Vol 123, pp 133
2001	Kuang-di, XU and Guo-chang, J. and Wei-zhong, D. and Xin-guo, W.	Experimental Research on Oxidation Refining of Ferrosilicon	?????? (???), Vol 8, No 01
2001	Lauretta, D.S.;Buseck, P.R.;Zega, T.J.;	Opaque minerals in the matrix of the Bishunpur (LL3.1) chondrite: constraints on the chondrule formation environment	Geochimica et Cosmochimica Acta, Vol 65, No 8, pp 1337-1353
2001	Li, Z.-C.;	Superconvergence of Coupling Techniques in Combined Methods for Elliptic Equations with Singularities	Computers and Mathematics with Applications, Vol 41, No 3, pp 379-398
2001	Liu, M.;He, P.;Luo, J.L.;Sanger, A.R.;Chuang, K.T.;	Performance of a solid oxide fuel cell utilizing hydrogen sulfide as fuel	Journal of Power Sources, Vol 94, No 1, pp 20-25
2001	Lopez, F.A. and Pena, M.C. and Lopez-Delgado, A.	Hydrolysis and Heat Treatment of Aluminum Dust	Journal of the Air & Waste Management Association, Vol 51, No 6, pp 903-912
2001	Merrill, B.J.	A lithium-air reaction model for the melcor code for analyzing lithium fires in fusion reactors	Fusion Engineering and Design, Vol 54, No 3-4, pp 485-493
2001	Mowery, D.L.;McCormick, R.L.;	Deactivation of alumina supported and unsupported PdO methane oxidation catalyst: the effect of water on sulfate...	Applied Catalysis B: Environmental, Vol 34, No 4, pp 287-297
2001	Nikkhah, K.	ROLE OF SIMULATION SOFTWARE IN DESIGN AND OPERATION OF METALLURGICAL PLANTS: A CASE STUDY	SME Annual Meeting, Denver Colorado, Pre-print, pp 01-176
2001	Niskanen, A. and Hatanpää, T. and Ritala, M. and Leskelä, M.	Thermogravimetric Study of Volatile Precursors For Chemical Thin Film Deposition: Estimation of vapor pressures and source temperatures	Journal of Thermal Analysis and Calorimetry, Vol 64, No 3, pp 955-964
2001	Pérez, FJ and Hierro, MP and Carpintero, C. and Pedraza, F. and Gómez, C.	Silicon deposition on AISI 304 stainless steel by CVD in fluidized bed reactors: analysis of silicide formation and adhesion of coatings	Surface & Coatings Technology, Vol 140, No 2, pp 93-98
2001	Pulvirenti, A.L. and Needham, K.M. and Adel-Hadadi, M.A. and Marks, C.R. and Gorman, J.A. and Barkatt, A.	Effects of Heavy Metal Ions on Corrosion of Titanium Grade 7 In Concentrated Groundwaters	Scientific Basis for Nuclear Waste Management XXV(as held at the 2001 MRS Fall Meeting), pp 83-88
2001	RAPP, Robert A. ; VAIS, Philip;	CONVERSION OF HYDROGEN CHLORIDE GAS WITH RECOVERY OF CHLORINE	PAT PATENT COOPERATION TREATY APPLICATION
2001	Richmann, M.K. and Reed, D.T. and Kropf, A.J. and Aase, S.B. and Lewis, M.A.	EXAFS/XANES studies of plutonium-loaded sodalite/glass waste forms	Journal of Nuclear Materials, Vol 297, No 3, pp 303-312
2001	Rosignol, S. and Descorme, C. and Kappenstein, C. and Duprez, D.	SYNTHESIS, STRUCTURE AND CATALYTIC PROPERTIES OF Zr-Ce-Pr-O MIXED OXIDES	Journal of Materials Chemistry, Vol 11, No 10, pp 2587-2592
2001	Shettlemore, M.G.;Bundy, K.J.;	Examination of in vivo influences on bioluminescent microbial assessment of corrosion product toxicity	Biomaterials, Vol 22, No 16, pp 2215-2228
2001	SOININEN, Pekka, Juha ; ELMERS, Kai-Erik;	PROCESS FOR PRODUCING INTEGRATED CIRCUITS	PAT PATENT COOPERATION TREATY APPLICATION
2001	Song, K.W. and Sik Kim, K. and Ho Yang, J. and Won Kang, K. and Ho Jung, Y.	A mechanism for the sintered density decrease of UO ₂ --Gd ₂ O ₃ pellets under an oxidizing atmosphere	Journal of Nuclear Materials, Vol 288, No 2-3, pp 92-99
2001	Spence, JE	Introduction	Interdisciplinary design in practice, Thomas Telford, London
2001	Stern, K. and Stern, KH	High Temperature Properties and Thermal Decomposition of Inorganic Salts With Oxyanions	CRC Press
2001	Taber, K.S.	Building the structural concepts of chemistry: Some considerations from educational research	Chemistry Education: Research and Practice in Europe, Vol 2, No 2, pp 123-158

2001	Teil, I. and berlegungen zur Werkstoffauswahl, G.U.(\ E).	Materials for temperatures above 1500°C in oxidizing atmospheres Part I: Basic considerations on materials selection	Materials and Corrosion, Vol 52, pp 204-212
2001	Utkin, A.B. and Oliveira, V.M.B. and Vilar, R.M.C.S.	Two-component finite-volume scheme for modelling the initial stage of Al ₂ O ₃ -TiC laser processing	Modelling and Simulation in Materials Science and Engineering, Vol 9, No 6, pp 513-524
2001	Van, V.;Danek, V.;	Formation Gibbs energy of K ₂ NbF ₇ , K ₂ NbOF ₅ , and K ₂ NbO ₂ F ₃ from electrochemical measurements	Thermochimica Acta, Vol 373, No 2, pp 181-186
2001	Weber, CF	Phase Equilibrium Studies of Savannah River Tanks and Feed Streams for the Salt Waste Processing Facility	ORNL/TM-2001/109, ORNL Oak Ridge National Laboratory (US)
2001	Wei, D. and Gotkis, Y. and Li, H. and Jew, S. and Li, J. and Srivatsan, S. and Simon, J. and Boyd, J.M. and Ramanujam, KY and Kistler, R.	Copper CMP for Dual Damascene Technology: Some Considerations on the Mechanism of Cu Removal	Chemical-Mechanical Polishing 2001--Advances and Future Challenges as held at the 2001 MRS Spring Meeting
2001	Weisweiler, W. and Buchholz, F.	Solid urea as a source of ammonia for catalytic lowering of nitrogen oxide levels in diesel exhaust by the SCR process.	Chemie Ingenieur Technik, Vol 73, No 7, pp 882-887
2001	Welham, N.J.;	Mechanochemical processing of enargite (Cu ₃ AsS ₄)	Hydrometallurgy, Vol 62, No 3, pp 165-173
2001	Welham, N.J.;	Mechanochemical processing of gold-bearing sulphides	Minerals Engineering, Vol 14, No 3, pp 341-347
2001	Welham, NJ	Novel process for enhanced lunar oxygen recovery	Journal of Materials Science, Vol 36, No 9, pp 2343-2348
2001	Volynsky, A.B. and Wennrich, R.	Comparative efficiency of Pd, Rh and Ru modifiers in electrothermal atomic absorption spectrometry for the simultaneous determination of As, Se and In in a sodium sulfate matrix	Journal of Analytical Atomic Spectrometry, Vol 16, No 2, pp 179-187
2001	Volynsky, A.B.;Stakheev, A.Y.;Telegina, N.S.;Senin, V.G.;Kustov, L.M.;Wennrich, R.;	Low-temperature transformations of sodium sulfate and sodium selenite in the presence of pre-reduced palladium modifier...	Spectrochimica Acta Part B: Atomic Spectroscopy, Vol 56, No 8, pp 1387-1396
2001	Zaim, H.; Liu, Y.; Murray, S. N.; Alton, G. D.	A negative surface ionization source for RIB generation	AIP Conference Proceedings (2001), 576(Applications of Accelerators in Research and Industry), 244-249
2001	Zhang, W.G. and Huettinger, K.J.	CVD of SiC from Methyltrichlorosilane. Part II: Composition of the Gas Phase and the Deposit	Chemical Vapor Deposition, Vol 7, No 4, pp 173-181
2000	Ahlén, N. and Johnsson, M. and Larsson, A.K. and Sundman, B.	On the carbothermal vapour-liquid-solid (VLS) mechanism for TaC, TiC, and TaTi-xC whisker growth	Journal of the European Ceramic Society, Vol 20, No 14-15, pp 2607-2618
2000	Andersson, M. and Alberius-Henning, P. and Jansson, K. and Nygren, M.	Preparation of carbon nanotubes from CO and in situ formed nano-sized Pd particles	Journal of Materials Research, Vol 15, No 8, pp 1822-1827
2000	Ashworth, SC	Mercury removal at Idaho National Engineering and Environmental Laboratory's New Waste Calcining Facility	Waste Management, Vol 2000
2000	Ayala, RE and Venkataramani, VS and Abbasian, J. and Slimane, R.B. and Williams, B.E. and Zarnegar, M.K. and Wangerow, J.R. and Hill, A.H.	ADVANCED SORBENT DEVELOPMENT PROGRAM DEVELOPMENT OF SORBENTS FOR MOVING-BED AND FLUIDIZED-BED APPLICATIONS	AC21-94MC31089--04, Federal Energy Technology Center, Morgantown, WV (US); Federal Energy Technology Center, Pittsburgh, PA (US)
2000	Banovic, S.W.;DuPont, J.N.;Marder, A.R.;	Metallographic preparation and degradation of the α -phase (FeAl ₂ S ₄) formed after high-temperature...	Materials Characterization, Vol 45, No 3, pp 241-249
2000	Banovic, SW and DuPont, JN and Marder, AR	Growth of Nodular Corrosion Products on Fe-Al Alloys in Various High-Temperature Gaseous Environments	Oxidation of Metals, Vol 54, No 3, pp 339-371
2000	Bermanec, V. and Sijaric, G. and Kniewald, G. and Mandarino, J.A.	Gaspéite and associated Ni-rich minerals from veins in altered ultrabasic rocks from Dubostica, Bosnia and Herzegovina	Canadian Mineralogist, Vol 38, pp 1371-1376
2000	Besenbruch, GE and Brown, LC and Funk, JF and Showalter, SK	High Efficiency Generation of Hydrogen Fuels Using Nuclear Power	GA-A23510, September
2000	Bohé, A.E. and Andrade-Gamboa, J. and Pasquevich, D.M. and Tolley, A.J. and Pelegrina, J.L.	Microstructural Characterization of ZrO	J. Am. Ceram. Soc, Vol 83, No 4, pp 755-60
2000	Bond, M.M.	CHARACTERIZATION AND CONTROL OF SELENIUM RELEASES FROM MINING IN THE IDAHO PHOSPHATE REGION	

- 2000 Brown, LC and Funk, JF and Showalter, SK Initial Screening of Thermochemical Water-Splitting Cycles for High Efficiency Generation of Hydrogen Fuels Using Nuclear Power University of Kentucky and Sandia National Laboratories, General Atomics Project, Vol 30047
- 2000 Butler, I.B.;Rickard, D.; Framboidal pyrite formation via the oxidation of iron (II) monosulfide by hydrogen sulphide Geochimica et Cosmochimica Acta, Vol 64, No 15, pp 2665-2672
- 2000 Casas, J.M.;Alvarez, F.;Cifuentes, L.; Aqueous speciation of sulfuric acid-cupric sulfate solutions Chemical Engineering Science, Vol 55, No 24, pp 6223-6234
- 2000 Choe, Jae Young; Fuller, N. C. M.; Donnelly, Vincent M.; Herman, Irving P. Transient plasma-induced emission analysis of laser-desorbed species during Cl₂ plasma etching of Si Journal of Vacuum Science & Technology, A: Vacuum, Surfaces, and Films (2000), 18(6), 2669-2679
- 2000 Cockeram, BV and Hollenbeck, JL The spectral emittance and stability of coatings and textured surfaces for thermophotovoltaic (TPV) radiator applications Annual Meeting of The Minerals, Metals, and Materials Society (TMS), New Orleans, LA (US), 02/02/2001
- 2000 Daher Vieira, Michelle; Ogasawara, Tsuneharu Thermodynamic analysis of the lithium niobate synthesis from aqueous solution [sic] Congresso Anual - Associacao Brasileira de Metalurgia e Materiais (2000), 55th, 1557-1563
- 2000 Desreumaux, J. and Calais, M. and Adriano, R. and Trambaud, S. and Kappenstein, C. and Nguetack, M. Reactions of Sodium-Potassium Alloys with Inert Gas Impurities- Potential Hazards after Oxidation European Journal of Inorganic Chemistry, Vol 2000, No 9, pp 2031-2045
- 2000 Duncan, A. Off-gas system development for the melt-dilute treatment of aluminum-based spent nuclear fuel ANS-DOE Spent Fuel Conference, San Diego, CA (US), 06/04/2000--06/08/2000
- 2000 Ho, T.C.;Kuo, T.H.;Hopper, J.R.; Thermodynamic study of the behavior of uranium and plutonium during thermal treatment under reducing and oxidizing... Waste Management, Vol 20, No 5, pp 355-361
- 2000 Hwang, S.L. and Shen, P. and Chu, H.T. and Yui, T.F. Nanometer-Size alpha-PbO 2-Type TiO 2 in Garnet: A Thermobarometer for Ultrahigh-Pressure Metamorphism Science, Vol 288, No 5464, pp 321-324
- 2000 Ilic, I. and Stopic, S. and Cerovic, K. and Kamberovic, Z. Study of chlorination of nickel silicate by gaseous chlorine and calcium chloride in the presence of active additives Scandinavian Journal of Metallurgy, Vol 29, pp 9-16
- 2000 Johnsson, M. Synthesis and characterization of NbC whiskers Journal of Materials Science Letters, Vol 19, No 17, pp 1571-1574
- 2000 Johnsson, M.;Kihlberg¹, L.; Incorporation of sodium into Nb¹"2O"²9 by high temperature synthesis The International Journal of Inorganic Materials, Vol 2, No 6, pp 477-481
- 2000 Jones, D.E.G. and Brousseau, P. and Fouchard, R.C. and Turcotte, A.M. and Kwok, Q.S.M. Thermal Characterization of Passivated Nanometer Size Aluminium Powders Journal of Thermal Analysis and Calorimetry, Vol 61, No 3, pp 805-818
- 2000 Kaveck{\`y}, {\v{S}}. and Janekov{\`a}, B. and Madejov{\`a}, J. and {\v{S}}ajgal{\`i}k, P. Silicon carbide powder synthesis by chemical vapour deposition from silane/acetylene reaction system Journal of the European Ceramic Society, Vol 20, No 12, pp 1939-1946
- 2000 Lexa, D. and Leibowitz, L. and Kropf, J. On the reactive occlusion of the (uranium trichloride+ lithium chloride+ potassium chloride) eutectic salt in zeolite 4A Journal of Nuclear Materials, Vol 279, No 1, pp 57-64
- 2000 Liu, C. and Little, JA and Henderson, PJ and Ljung, P. Corrosion of HR 3 C heat exchanger alloy in a biomass fired PF utility boiler Materials and Corrosion, Vol 51, No 11, pp 765-773
- 2000 Meunier, F.C.;Ross, J.R.H.; Effect of ex situ treatments with SO² on the activity of a low loading silver-alumina catalyst for the selective... Applied Catalysis B: Environmental, Vol 24, No 1, pp 23-32
- 2000 Morss, L.R.;Lewis, M.A.;Richmann, M.K.;Lexa, D.; Cerium, uranium, and plutonium behavior in glass-bonded sodalite, a ceramic nuclear waste form Journal of Alloys and Compounds, Vol 303, No ., pp 42-48
- 2000 Mroczek, A.;Wennrich, R.;Werner, G.;Schron, W.; Investigation of phosphorus release from different compounds in electrothermal vaporization inductively coupled plasma... Spectrochimica Acta Part B: Atomic Spectroscopy, Vol 55, No 10, pp 1527-1538
- 2000 Niinisto, L. Advanced thin films for electronics and optoelectronic's by atomiclayer epitaxy Semiconductor Conference, 2000. CAS 2000 Proceedings. International, Vol 1
- 2000 Nyberg, J.; Metsarinta, M.-L.; Roine, A. Recent process improvements in the Kokkola zinc roaster Lead-Zinc 2000, Proceedings of the Lead-Zinc 2000 Symposium, Pittsburgh, PA, United States, Oct. 22-25, 2000 (2000), 399-415. Editor(s): Dutrizac, John E. Publisher: Minerals, Metals & Materials Society, Warrendale, Pa.
- 2000 Ogasawara, T.;Veloso de Araujo, R.V.; Hydrochloric acid leaching of a pre-reduced Brazilian ilmenite concentrate in an autoclave Hydrometallurgy, Vol 56, No 2, pp 203-216
- 2000 Olsen, E. and Hagen, G. and Lindquist, S.E. Dissolution of platinum in methoxy propionitrile containing LiI/I Solar Energy Materials & Solar Cells, Vol 63, pp 267-273
- 2000 Pérez, FJ and Hierro, MP and Duday, D. and G{\`o}mez, C. and Romero, M. and Daza, L. Hot-Corrosion Studies of Separator Plates of AISI-310 Stainless Steels in Molten-Carbonate Fuel Cells Oxidation of Metals, Vol 53, No 3, pp 375-398
- 2000 Pirngruber, G. D.; Seshan, K.; Lercher, J. A. Dehydroisomerization of n-butane over Pt-ZSM5 Journal of Catalysis (2000), 190(2), 338-351

2000	Pirngruber, G.D.;Seshan, K.;Lercher, J.A.;	Deactivation of medium pore zeolite catalysts by butadiene during n-butene isomerization	Microporous and Mesoporous Materials, Vol 38, No 2, pp 221-237
2000	Pirngruber, G.D.;Seshan, K.;Lercher, J.A.;	Dehydroisomerization of n-Butane over Pt-ZSM5 - II. Kinetic and Thermodynamic Aspects	Journal of Catalysis, Vol 190, No 2, pp 338-351
2000	R. E. Wildung,* Y. A. Gorby, K. M. Krupka, N. J. Hess, S. W. Li, A. E. Plymale, J. P. McKinley, and J. K. Fredrickson	Effect of Electron Donor and Solution Chemistry on Products of Dissimilatory Reduction of Technetium by <i>Shewanella putrefaciens</i>	Applied and Environmental Microbiology, June 2000, p. 2451-2460, Vol. 66, No. 6
2000	R. M. Fleming ; D. V. Lang ; C. D. W. Jones ; M. L. Steigerwald ; D. W. Murphy ; G. B. Alers ; Y.-H. Wong ; R. B. van Dover ; J. R. Kwo ; A. M. Sergent;	Defect dominated charge transport in amorphous TaO thin films	Journal of Applied Physics, Vol ., No ., pp .-
2000	Roine, Antti; Nyberg, Jens	Heat and material balance model of Kokkola Zn roaster based on HSC chemistry 4.0 software	EPD Congress 2000, Proceedings of Sessions and Symposia held during the TMS Annual Meeting, Nashville, TN, United States, Mar. 12-16, 2000 (2000), 85-95. Editor(s): Taylor, Patrick R. Publisher: Minerals, Metals & Materials Society, Warrendale, Pa.
2000	Rubisov, D.H.;Papangelakis, V.G.;	Sulphuric acid pressure leaching of laterites - a comprehensive model of a continuous autoclave	Hydrometallurgy, Vol 58, No 2, pp 89-101
2000	Sahin, F.C. and Derin, B. and Yucel, O.	Chloride removal from zinc ash	Scandinavian Journal of Metallurgy, Vol 29, No 5, pp 224-230
2000	Santini Jr, J.T. and Richards, A.C. and Scheidt, R. and Cima, M.J. and Langer, R.	Microchips as controlled drug-delivery devices	Angew Chem Int Ed, Vol 39, No 14, pp 2396-2407
2000	Santini Jr, J.T. and Richards, A.C. and Scheidt, R. and Cima, M.J. and Langer, R.	Mikrochips als Systeme zur kontrollierten Freisetzung von Medikamenten	Angewandte Chemie, Vol 112, No 14, pp 2486-2498
2000	Schwalm, C. and Schu{\E}tze, M.	The corrosion behavior of several heat resistant materials in air+ 2 vol-% Cl	Materials and Corrosion, Vol 51, pp 34-49
2000	Schwartz, M.O. and Ploethner, D.	Removal of heavy metals from mine water by carbonate precipitation in the Grootfontein-Omatako canal, Namibia	Environmental Geology, Vol 39, No 10, pp 1117-1126
2000	Senior, C.L.;Sarofim, A.F.;Zeng, T.;Helble, J.J.;Mamani-Paco, R.;	Gas-phase transformations of mercury in coal-fired power plants	Fuel Processing Technology, Vol 63, No 2, pp 197-213
2000	Smolik, GR and Petti, DA and McCarthy, KA and Schuetz, ST	Oxidation, volatilization, and redistribution of molybdenum from TZM alloy in air	INEEL/EXT--99-01353, Idaho National Engineering and Environmental Lab., Idaho Falls, ID (US)
2000	Smolik, GR and Petti, DA and Schuetz, ST	Oxidation and volatilization of TZM alloy in air	Journal of Nuclear Materials, Vol 283, pp 1458-1462
2000	Sobral, L.G.S.;Santos, R.L.C.;Barbosa, L.A.D.;	Electrolytic treatment of mercury-loaded activated carbon from a gas cleaning system	The Science of the Total Environment, Vol 261, No 1, pp 195-201
2000	Song, K.W. and Kim, K.S. and Kim, Y.M. and Jung, Y.H.	Sintering of mixed UO ₂ and U ₃ O ₈ powder compacts	Journal of Nuclear Materials, Vol 277, No 2-3, pp 123-129
2000	Song, K.W.;Kim, K.S.;Kim, Y.M.;Jung, Y.H.;	Sintering of mixed UO ₂ and U ₃ O ₈ powder compacts	Journal of Nuclear Materials, Vol 277, No 2, pp 123-129
2000	Specht, M. and Bandi, A. and Baumgart, F. and Möllenstedt, T. and Textor, O. and Weimer, T.	Enhanced Reforming Reaction for Hydrogen Production from Carbonaceous Feedstock	Hydrogen Energy Progress XIII", ZQ Mao, TN Veziroglu (Eds.), pg, Vol 1203
2000	Strickland, Alan D.;	Determining biodegradability of iminodiacetic acid derivatives, degradable chelants, uses and compositions thereof	PAT EUROPEAN PATENT APPLICATION
2000	Toghiani, B. and Lindner, JS and Weber, CF and Hunt, RD	Modeling of Sulfate Double-salts in Nuclear Wastes	ORNL/TM-2000/317, UT-Battelle, LLC, Oak Ridge National Laboratory (2000)
2000	Warner, TE and Fray, DJ	Nitriding of iron boride to hexagonal boron nitride	Journal of Materials Science, Vol 35, No 21, pp 5341-5345
2000	Weimer, A. and Dahl, J. and Buechler, K. and Lewandowski, A. and Pitts, R. and Bingham, C. and Glatzmaier, G.C.	Thermal Dissociation of Methane Using a Solar Coupled Aerosol Flow Reactor	Proceedings of the 2000 DOE Hydrogen Program Review, pp 570-28890

2000	werden die wichtigsten Verfahren, E. and selektive katalysierte Reduktion, D. and H_2O Oxidation vor Reduktion (textorfeminine), P.	Entfernung von Stickstoffoxiden aus Sauerstoff enthaltenden Automobil-Abgasen	Chemie Ingenieur Technik, Vol 72, No 5
2000	Vieira, MD and Cortes, FR and Ogasawara, T.	Thermodynamic analysis of the lithium niobate synthesis from aqueous solution	55 Congresso Anual Associacao Brasileira de Metalurgia e Materiais, Rio de Janeiro, Brazil, Vol 24, No 28
2000	Wildung, RE and Gorby, YA and Krupka, KM and Hess, NJ and Li, SW and Plymale, AE and McKinley, JP and Fredrickson, JK	Effect of Electron Donor and Solution Chemistry on Products of Dissimilatory Reduction of Technetium by <i>Shewanella putrefaciens</i>	Applied and Environmental Microbiology, Vol 66, No 6, pp 2451-2460
2000	Wildung, RE and Gorby, YA and Krupka, KM and Hess, NJ and Li, SW and Plymale, AE and McKinley, JP and Fredrickson, JK	Effect of Electron Donor and Solution Chemistry on Products of Dissimilatory Reduction of Technetium by <i>Shewanella putrefaciens</i>	Applied and Environmental Microbiology, Vol 66, No 6, pp 2451-2460
2000	Vracar, R.Z.; Cerovic, K.P.;	Manganese leaching in the $\text{FeS}_2\text{-MnO}_2\text{-O}_2\text{-H}_2\text{O}$ system at high temperature in an autoclave	Hydrometallurgy, Vol 55, No 1, pp 79-92
2000	Zilbergleyt, B.	Dynamics of Chemical Reactions: Open Equilibrium	Arxiv preprint physics/0010013
2000	Zilbergleyt, B.	Thermodynamic Equilibrium in Open Chemical Systems	Arxiv preprint physics/0004035
2000	Zilbergleyt, B. and Scholar, I.	OPEN CHEMICAL EQUILIBRIA AND COEFFICIENTS OF THERMODYNAMIC ACTIVITY	MMT-2000: International Conference on Mathematical Modeling and Computer Simulation of Metal Technologies, pp 107-114 INMM 40th Annual Meeting, Phoenix, AZ (US), 07/25/1999-07/29/1999
1999	Aase, SB and Kropf, AJ and Lewis, MA and Reed, DT and Richmann, MK	XAF/XANES studies of plutonium-loaded sodalite/glass composite waste forms.	Journal of Materials Science Letters, Vol 18, No 13, pp 1071-1074
1999	Ahlén, N. and Johnsson, M. and Nygren, M.	Synthesis of $\text{TiN}_x\text{C}_{1-x}$ whiskers	Journal of Solid State Chemistry, Vol 146, No 2, pp 428-436
1999	Andersson, M.; Grins, J.; Nygren, M.;	Structure, Thermodynamic, and Magnetic Properties of Ln_4PdO_7 with $\text{Ln}=\text{La, Nd, Sm, Eu, and Gd}$	Journal of Solid State Chemistry, Vol 146, No 2, pp 428-436
1999	Breen, J.P. and Meunier, F.C. and Ross, J.R.H.	Mechanistic aspects of the steam reforming of methanol over a $\text{CuO/ZnO/ZrO}_2/\text{Al}_2\text{O}_3$ catalyst	Chemical Communications, Vol 22, pp 2247-2248
1999	Brewer, C.M. and Bujalski, D.R. and Parent, V.E. and Su, K. and Zank, G.A.	Insights into the Oxidation Chemistry of SiOC Ceramics Derived from Silsesquioxanes	Journal of Sol-Gel Science and Technology, Vol 14, No 1, pp 49-68
1999	Brown, D.N.S. and Hargis Jr, R.A. and O'Dowd, W.J.	Introduction to the Air & Waste Management Association's 29th Annual Critical Review	Journal of the Air & Waste Management Association
1999	Brown, T.D. and Smith, D.N. and Hargis Jr, R.A. and O'Dowd, W.J.	Mercury Measurement and Its Control: What We Know, Have Learned, and Need to Further Investigate	Journal of the Air & Waste Management Association, Vol 49, No 6, pp 628-640
1999	Carlsson, M. and Johnsson, M. and Nygren, M.	Journal	J. Am. Ceram. Soc, Vol 82, No 8, pp 1969-76
1999	Cisternas, L.A.;	On the synthesis of inorganic chemical and metallurgical processes. Review and extension	Minerals Engineering, Vol 12, No 1, pp 15-41
1999	Cuadra, C. and Moya, T.	Pyrometallurgical copper slag treatment	The Metals Journal, Vol 6, pp 15-22
1999	de Andrade, M.C. and Filgueiras, M.R.T. and Ogasawara, T.	Nucleation and growth of hydroxyapatite on titanium pretreated in NaOH Solution: Experiments and thermodynamic explanation	Journal of Biomedical Materials Research, Vol 46, No 4, pp 441-446
1999	Finch, S.L. and Kumar, R.V.	On-line sensing of aluminium in zinc hot-dip galvanizing baths using novel techniques	Ionics, Vol 5, No 3, pp 299-310
1999	Ga $\{\text{v}\}$ parovi $\{\text{c}\}$ ov $\{\text{a}\}$, D. and Kr $\{\text{a}\}$ lik, M. and Hronec, M.	Pd-Cu Supported on Anionic Polymers-Promising Catalysts for Removal of Nitrates from Drinking Water	Collection of Czechoslovak Chemical Communications, Vol 64, No 3, pp 502-514
1999	Gottwald, U. and Monkhouse, P.	Single-port optical access for spectroscopic measurements in industrial flue gas ducts	Applied Physics B: Lasers and Optics, Vol 69, No 2, pp 151-154
1999	Hage, J.L.T.; Schuiling, R.D.; Vriend, S.P.;	Production of magnetite from sodiumjarosite under reducing hydrothermal conditions. The reduction of Fe^{3+} to Fe^{2+} ...	Canadian Metallurgical Quarterly, Vol 38, No 4, pp 267-276
1999	Ho, T. C.; Kuo, T. H.; Hopper, J. R.	Thermodynamic study of the behavior of uranium and plutonium during thermal treatment under reducing and oxidizing modes	Proceedings of the International Conference on Incineration and Thermal Treatment Technologies, Orlando, Fla., May 10-14, 1999 (1999), 199-205 Publisher: University of California, Irvine, Irvine, Calif.
1999	HOLDER, John D. ; JOSLIN, Steven M. ; KORB, Harold W.;	PROCESS AND APPARATUS FOR PREPARATION OF SILICON CRYSTALS WITH REDUCED METAL CONTENT	PATENT COOPERATION TREATY APPLICATION
1999	Kanari, N.; Allain, E.; Gaballah, I.;	Reactions of wustite and hematite with different chlorinating agents	Thermochimica Acta, Vol 335, No 1, pp 79-86

1999	Karouta, F. and Jacobs, B. and Vreugdewater, P. and VAN MELICK, NGH and SCHOEN, O. and PROTZMANN, H. and HEUKEN, M.	High Etch Rate and Smooth Morphology Using a Novel Chemistry in Reactive Ion Etching of GaN	Electrochemical and Solid State Letters, Vol 2, No 5, pp 240-241
1999	Karouta, F. and Vreugdewater, P. and Jacobs, B. and van Roy, BH and Schoen, O. and Protzmann, H. and Heuken, M.	Progress in reactive ion etching of epitaxial GaN	Optoelectronic and Microelectronic Materials Devices, 1998. Proceedings. 1998 Conference on, pp 171-174
1999	Komanduri, R. and Hou, ZB and Umehara, N. and Raghunandan, M. and Jiong, M. and Bhagavatula, SR and Noori-Khajavi, A. and Wood, NO	A "gentle" method for finishing Si ₃ N ₄ balls for hybrid bearing applications	Tribology Letters, Vol 7, No 1, pp 39-49
1999	Lewis, MA and Lexa, D. and Mors, LR and Richmann, MK	Cerium, uranium, and plutonium behavior in glass-bonded sodalite, a ceramic nuclear waste form.	22nd Rare Earth Research Conference, Argonne, IL (US), 07/10/1999--07/15/1999
1999	Moore, F. and Ribeiro, KM and Almendra, ER and Ogasawara, T.	Thermodynamic analysis to establish the ideal conditions for copper ferrite synthesis from aqueous solutions at low pressure	Cermica, Vol 45, pp 137-139
1999	Moore, F. and Ribeiro, KM and Almendra, ER and Ogasawara, T. and Rio de Janeiro, RJ	Análise termodinâmica visando estabelecer as condições ideais de síntese da ferrita de cobre a partir de solução aquosa a baixa pressão	Cerâmica, Vol 45, No 295, pp 137-139
1999	Mora-Sero, I.;Munoz, V.;Barbe, M.;Triboulet, R.;	Study of the chemically activated sublimation of ZnSe	Journal of Crystal Growth, Vol 197, No 3, pp 497-503
1999	Perez, F. J.; Hierro, M. P.; Pedraza, F.; Gomez, C.; Carpintero, M. C.;	Kinetic studies of Cr and Al deposition using CVD-FBR on different metallic substrates	Surface and Coatings Technology (1999), 122(2-3), 281-289
1999	Perez, F.J.;Hierro, M.P.;Pedraza, F.;Gomez, C.;Carpintero, M.C.;	Aluminizing and chromizing bed treatment by CVD in a fluidized bed reactor on austenitic stainless steels	Surface and Coatings Technology, Vol 120, No ., pp 151-157
1999	Perez, F.J.;Hierro, M.P.;Pedraza, F.;Gomez, C.;Carpintero, M.C.;Trilleros, J.A.;	Kinetic studies of Cr and Al deposition using CVD-FBR on different metallic substrates	Surface and Coatings Technology, Vol 122, No 2, pp 281-289
1999	Pérez, FJ and Hierro, MP and Pedraza, F. and Gómez, C. and Carpintero, MC	Aluminizing and chromizing bed treatment by CVD in a fluidized bed reactor on austenitic stainless steels	Surface & Coatings Technology, Vol 120, pp 151-157
1999	Pérez, FJ and Hierro, MP and Pedraza, F. and Gómez, C. and Carpintero, MC and Trilleros, JA	Kinetic studies of Cr and Al deposition using CVD-FBR on different metallic substrates	Surface & Coatings Technology, Vol 122, No 2-3, pp 281-289
1999	Pupyshev, A.A. and Muzgin, V.N. and Lutsak, A.K.	Thermochemical processes and ion transport in inductively coupled plasma mass spectrometry: theoretical description and experimental confirmation† Invited Lecture	J. Anal. At. Spectrom, Vol 14, pp 1485-1492
1999	Roumeliotis, I.J.	Desulfurization of INCO Semi-Blisters Copper	
1999	Strickland, Alan D.;	Process for determining biodegradability of aspartic acid derivatives	PAT EUROPEAN PATENT APPLICATION
1999	Swift, GA and Koc, R.	Formation studies of TiC from carbon coated TiO ₂	Journal of Materials Science, Vol 34, No 13, pp 3083-3093
1999	Triboulet, R.;Ntep, J.M.;Barbe, M.;Lemasson, P.;Mora-Sero, I.;Munoz, V.;	Some fundamentals of the vapor and solution growth of ZnSe and ZnO	Journal of Crystal Growth, Vol 198, No ., pp 968-974
1999	Weber, CF and Beahm, EC and Watson, JS	Modeling Thermodynamics and Phase Equilibria for Aqueous Solutions of Trisodium Phosphate	Journal of Solution Chemistry, Vol 28, No 11, pp 1207-1238
1999	Welham, NJ	MATERIALS RESEARCH	J. Mater. Res, Vol 14, No 2
1999	Whittenberger, J.D. and Arzt, E. and Luton, M.J.	MATERIALS RESEARCH	J. Mater. Res, Vol 14, No 6, pp 2419
1999	Vogelaar, B.M.;Makkee, M.;Moulijn, J.A.;	Applicability of supercritical water as a reaction medium for desulfurisation and demetallisation of gasoil	Fuel Processing Technology, Vol 61, No 3, pp 265-277
1998	Ahlen, N.;Johnsson, M.;Nygren, M.;	Synthesis and Characterisation of Ta _x Ti _{1-x} C and Ta _x Ti _{1-x} C _y N _{1-y} Whiskers	Journal of the European Ceramic Society, Vol 18, No 11, pp 1513-1519
1998	Boo, H.K.	Students' understandings of chemical bonds and the energetics of chemical reactions	Journal of Research in Science Teaching, Vol 35, No 5, pp 569-581

1998	Dollimore, D.;O'Connell, C.;	A comparison of the thermal decomposition of preservatives, using thermogravimetry and rising temperature kinetics	Thermochimica Acta, Vol 324, No 1, pp 33-48
1998	Films, T.	J ournal	J. Am. Ceram. Soc, Vol 81, No 2, pp 321-27
1998	Hebant, P.;Picard, G.S.;	Electrochemical investigations of the liquid lithium/(LiCl-KCl eutectic melt) interface. Chronopotentiometric and...	Electrochimica Acta, Vol 43, No 14, pp 2071-2081
1998	Hegarty, M.E.S.;O'Connor, A.M.;Ross, J.R.H.;	Syngas production from natural gas using ZrO ² -supported metals	Catalysis Today, Vol 42, No 3, pp 225-232
1998	INTRODUCTION, I. and EQUILIBRIUM, I.I.T.	Synthesis of Ultrafine Particles of Intermetallic Compounds by the Vapor-Phase Magnesium Reduction of Chloride Mixtures: Part I. Titanium Aluminides	METALLURGICAL AND MATERIALS TRANSACTIONS B, Vol 29, pp 457
1998	Juppo, M. and Vehkamäki, M. and Ritala, M. and Leskelä, M.	Deposition of molybdenum thin films by an alternate supply of MoCl and Zn	Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films, Vol 16, pp 2845
1998	Menad, Nourredine; Bjorkman, Bo; Zhang, Shunli; Forssberg, Eric	Thermodynamic conditions for the formation of dioxin during the recycling of non ferrous metals from electric and electronic scrap	EPD Congress 1998, Proceedings of Sessions and Symposia held at the TMS Annual Meeting, San Antonio, Feb. 16-19, 1998 (1998), 657-673. Editor(s): Mishra, Brajendra. Publisher: Minerals, Metals & Materials Society, Warrendale, Pa.
1998	Ntep, J.-M.;Barbe, M.;Cohen-Solal, G.;Bailly, F.;Lusson, A.;Triboulet, R.;	ZnO growth by chemically assisted sublimation	Journal of Crystal Growth, Vol 184, No ., pp 1026-1030
1998	O'Connor, A.M.;Ross, J.R.H.;	The effect of O ² addition on the carbon dioxide reforming of methane over Pt/ZrO ² catalysts	Catalysis Today, Vol 46, No 2, pp 203-210
1998	Peebles, D.E.;Peebles, H.C.;Ohlhausen, J.A.;	Kinetics of the isothermal spreading of tin on the air-passivated copper surface in the absence of a fluxing agent	Colloids and Surfaces A: Physicochemical and Engineering Aspects, Vol 144, No 1, pp 89-114
1998	Puclin, T.;Kaczmarek, W.A.;	Synthesis of alumina-nitride nanocomposites by successive reduction-nitridation in mechanochemically activated...	Journal of Alloys and Compounds, Vol 266, No 1, pp 283-292
1998	Saiz, E. and Tomsia, A.P.	J ournal	J. Am. Ceram. Soc, Vol 81, No 9, pp 2381-93
1998	Saiz, E. and Tomsia, AP	Kinetics of Metal-Ceramic Composite Formation by Reactive Penetration of Silicates with Molten Aluminum	Journal of the American Ceramic Society, Vol 81, No 9, pp 2381-2474
1998	Stephenson, Michael ; Gollither, Waldo ; Haas, Paul;	Thermal process for the conversion of uranium hexafluoride	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
1998	Strickland, Alan D., Lake Jackson, TX;	Analytical process to determine biodegradability of chelants containing a double carboxy containing moiety	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
1998	Strickland, Alan D., Lake Jackson, TX;	Determining biodegradability of aspartic acid derivatives, degradable chelants, uses and compositions	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
1998	Tortorelli, PF and DeVan, JH and Judkins, RR and Wright, IG	Solid-state phase stabilities of relevance to metal dusting in coal gasifier environments	Materials and Corrosion, Vol 49, No 5, pp 340-344
1998	Trouve, G.;Kauffmann, A.;Delfosse, L.;	Comparative thermodynamic and experimental study of some heavy metal behaviours during automotive shredder residues...	Waste Management, Vol 18, No 5, pp 301-307
1998	Welham, N.J.;	Mechanochemical reaction between ilmenite (FeTiO ³) and aluminium	Journal of Alloys and Compounds, Vol 270, No 1, pp 228-236
1998	Welham, N.J.;	Mechanochemical reduction of FeTiO ³ by Si	Journal of Alloys and Compounds, Vol 274, No 1, pp 303-307
1998	von Hochtemperatur-PM-Werkstoffen, K.	Carburization of high temperature PM-materials	Materials and Corrosion, Vol 49, pp 246-251
1998	Zheng, X.;Rapp, R.A.;	Siliconizing carbon fabrics at 1600°C	Materials Science and Engineering: A, Vol 255, No 1, pp 75-80
1997	Asikainen, T.;Ritala, M.;Li, W.-M.;Lappalainen, R.;Leskela, M.;	Modifying ALE grown In ² O ³ films by benzoyl fluoride pulses	Applied Surface Science, Vol 112, No ., pp 231-235
1997	Basque, Daniel F.;	Passivation of stainless steels in reactor coolants	THES
1997	Bertrand, P.;Vidal-Setif, M.H.;Mevrel, R.;	The CVD of pyrolytic carbon and titanium diboride coatings on carbon fibre yarns for use in aluminium-based composites	Surface and Coatings Technology, Vol 96, No 2, pp 283-292
1997	Björkman, E. and Strömberg, B.	Release of Chlorine from Biomass at Pyrolysis and Gasification Conditions	Energy & Fuels, Vol 11, No 5, pp 1026-1032
1997	Bonnet, J.;El Mejdoub, N.;Trouve, G.;Delfosse, L.;	Study of the gas phase combustion of hexachlorobenzene, influence of the oxygen concentration - Attempt at a global...	Journal of Analytical and Applied Pyrolysis, Vol 44, No 1, pp 1-11
1997	Cisternas, L. A.; Guerrero, C. J.; Melo, J. M.; Oyanader, M. A.	SINQUIM, a system for the synthesis of chemical reaction cycles	Informacion Tecnologica (1997), 8(5), 15-21; ISSN: 0716-8756
1997	Doughty, G.R. and Fray, D.J.	Use of sodium beta alumina in novel processes for the production of metals	Ionics, Vol 3, No 5, pp 338-344

1997	Hepola, J.;Simell, P.;	Sulphur poisoning of nickel-based hot gas cleaning catalysts in synthetic gasification gas. II. Chemisorption of...	Applied Catalysis B: Environmental, Vol 14, No 3, pp 305-321
1997	Koc, R. and Folmer, J.S.	SYNTHESIS OF SUBMICROMETRE TITANIUM CARBIDE POWDERS	J. Am. Ceram. Soc., Vol 80, No 4, pp 952-956
1997	Koc, R.;	Kinetics and Phase Evolution During Carbothermal Synthesis of Titanium Carbide from Carbon-Coated Titania Powder	Journal of the European Ceramic Society, Vol 17, No 11, pp 1309-1315
1997	Krakovska, E.;	Tungsten atomizer--the theory of atomization reactions	Spectrochimica Acta Part B: Atomic Spectroscopy, Vol 52, No 9, pp 1327-1332
1997	Menad, N.;Kanari, N.;Gaballah, I.;	Kinetics of chlorination and carbochlorination of lead sulfate	Thermochimica Acta, Vol 306, No 1, pp 61-67
1997	Monteverde, F. and Bellosi, A.	BeneficialEffects of AlN as SinteringAidonMicrostructure andMechanicalProperties of Hot-pressedZrB	Radiochim. Acta, Vol 79, pp 199
1997	MuñOz, JA and Go mez, C. and Ballester, A. and Bla zquez, ML and Gonza lez, F. and Figueroa, M.	Electrochemical behaviour of chalcopyrite in the presence of silver and Sulfolobus bacteria	Journal of Applied Electrochemistry, Vol 28, No 1, pp 49-56
1997	SOTIROPOULOU, D.	A thermodynamic analysis of ceramic oxide/liquid metal interfaces	Journal of Materials Science Letters, Vol 16, No 9, pp 693-695
1997	STEPHENSON, Michael J. ; GOLLIHER, Waldo R. ; HAAS, Paul;	THERMAL PROCESS FOR THE CONVERSION OF URANIUM HEXAFLUORIDE	PAT PATENT COOPERATION TREATY APPLICATION
1997	Strickland, Alan D., Lake Jackson, TX;	Determining the biodegradability of iminodiacetic acid derivatives	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
1997	Strickland, Alan D., Lake Jackson, TX;	Method of chelating a metal ion to form a chelate and biodegrading the chelate	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
1997	STRICKLAND, Alan D.;	DETERMINING BIODEGRADABILITY OF IMINODIACETIC ACID DERIVATIVES, DEGRADABLE CHELANTS, USES AND	PAT EUROPEAN PATENT
1997	Tibbets, Gary George ; Nazri, Gholam Abbas ; Howie, Blake James;	Method of making lithium-ion cell having deactivated carbon anode	PAT EUROPEAN PATENT
1996	Blunt, TJ and Kotvis, PV and Tysoe, WT	Determination of interfacial temperatures under extreme pressure conditions	Tribology Letters, Vol 2, No 3, pp 221-230
1996	Grasserbauer, M.;Friedbacher, G.;Prohaska, T.;Asikainen, T.;Ritala, M.;Leskela, M.;	AFM and STM studies on In ² O ³ and ITO thin films deposited by atomic layer epitaxy	Applied Surface Science, Vol 99, No 2, pp 91-98
1996	Hufton, Jeffrey Raymond ; Sircar, Shivaji ; Baade, William Frederick ; Abrardo, Joseph Michael ; Anand, Madhu;	Integrated steam methane reforming process for producing carbon monoxide and hydrogen	PAT EUROPEAN PATENT
1996	Jefferies, J. and Kuhn, A.	Computer software makes going back to basics easy	Finishing, Vol 20, No 2, pp 28-30
1996	Kukli, K.;Aarik, J.;Aidla, A.;Pung, L.;	Mechanisms of suboxide growth and etching in atomic layer deposition of tantalum oxide from TaCl ⁵ and H ² O	Applied Surface Science, Vol 103, No 4, pp 331-341
1996	Moore, F. and Ogasawara, T.	HYDROTHERMAL SYNTHESIS OF BARIUM TITANATE: THERMODYNAMIC ANALYSIS	Ceramica(Sao Paulo)., Vol 42, No 276, pp 487-489
1996	MTES, CH and MTMS, CH	H ₂ C ₂ [(C	J. Am. Ceram. Soc, Vol 79, pp 1457
1996	Nykanen, J.; Backman, R.; Andries, J.; Hein, K. R. G.	The behavior of alkali compounds in air and CO ₂ /O ₂ -blown coal conversion processes	High Temperature Gas Cleaning, [Papers presented at the International Symposium and Exhibition on Gas Cleaning at High Temperatures], 3rd, Karlsruhe, Sept. 18-20, 1996 (1996), 706-717. Editor(s): Schmidt, Eberhard. Publisher: Institut fuer Mechanische Verfahrenstechnik und Mechanik der Universitaet Karlsruhe (TH), Karlsruhe, Germany.
1996	Phillips, J.D.;Lund, M.W.;Shurtleff, J.K.;Allred, W.P.;	Advancements in platelet growth	Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Vol 380, No 1, pp 50-52
1996	Ritala, M.;Sarlund, J.;Leskela, M.;Siponmaa, E.;Zilliacus, R.;	Characterization of etching procedure in preparation of CdTe solar cells	Solar Energy Materials and Solar Cells, Vol 44, No 2, pp 177-190
1996	Souza, R.	THERMODYNAMIC ANALYSIS OF THE HYDROTHERMAL CONVERSION OF CORAL IN HYDROXYAPATITE USING SODIUM PHOSPHATE	Ceramica(Sao Paulo)., Vol 42, No 278, pp 721-722
1996	STRICKLAND, Alan D.;	DETERMINING BIODEGRADABILITY OF ASPARTIC ACID DERIVATIVES, DEGRADABLE CHELANTS, USES AND COMPOSITIONS	PAT PATENT COOPERATION TREATY APPLICATION
1996	Tibbetts, Gary G. ; Nazri, Gholam-Abbas ; Howie, Blake J.;	Method of making lithium-ion cell having deactivated carbon anodes	PAT UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

- 1996 Vellaikal, M.;Kington, A.I.; Electrical and microstructural characterization of lead titanate thin films deposited by metal-organic chemical vapor... Thin Solid Films, Vol 287, No 1, pp 139-145
- 1996 Vukcevic, S.; A comparison of alkali and acid methods for the extraction of gold from low grade ores Minerals Engineering, Vol 9, No 10, pp 1033-1047
- 1995 Carmack, WJ and Smolik, GR and McCarthy, KA and Gorman, PK Slag remelt purification of irradiated vanadium alloys 3. annual conference on the recycle and reuse of radioactive scrap metal, Knoxville, TN (United States), 31 Jul-3 Aug 1995
- 1995 Holland, ML and De Bruyn, HJ Metal dusting failures in methane reforming plant Elsevier Science Ltd., International Journal of Pressure Vessels and Piping(UK), Vol 66, No 1, pp 125-133
- 1995 Martin, Denise M.; The pyrolysis of fuel nitrogen from black liquor THES
- 1995 Thiele, R.B. and Venville, G.J. and Treagust, D.F. A comparative analysis of analogies in secondary biology and chemistry textbooks used in Australian schools Research in Science Education, Vol 25, No 2, pp 221-230
- 1995 Tysoe, WT and Surerus, K. and Lara, J. and Blunt, TJ and Kotvis, PV The surface chemistry of chloroform as an extreme-pressure lubricant additive at high concentrations Tribology Letters, Vol 1, No 1, pp 39-46
- 1994 Asikainen, T.;Ritala, M.;Leskela, M.; Growth of In²S³ thin films by atomic layer epitaxy Applied Surface Science, Vol 82, No ., pp 122-125
- 1994 Elers, K.-E.;Ritala, M.;Leskela, M.;Rauhala, E.; NbCl⁵ as a precursor in atomic layer epitaxy Applied Surface Science, Vol 82, No ., pp 468-474
- 1994 Hicks, R.E. and Tondorf, S. Electrorestoration of Metal Contaminated Soils Environmental Science & Technology, Vol 28, No 12, pp 2203-2210
- 1994 Ritala, M.;Leskela, M.;Niinisto, L.;Prohaska, T.;Friedbacher, G.;Grasserbauer, M.; Surface roughness reduction in atomic layer epitaxy growth of titanium dioxide thin films Thin Solid Films, Vol 249, No 2, pp 155-162
- 1994 Russell, W.C.;Padmanabhan, K.R.; Modification of Al²O³-TiN interface chemistry to improve adhesion in CVD coatings Surface and Coatings Technology, Vol 68, No ., pp 221-228
- 1994 Stockdale, JAD and Bostick, WD and Hoffmann, DP and Lee, HT Surrogate formulations for thermal treatment of low-level mixed waste. Part 1: Radiological surrogates DOE/MWIP--15, Oak Ridge K-25 Site, TN (United States); Oak Ridge Associated Universities, Inc., TN (United States)
- 1994 Taylor, P.R. and Pirzada, S.A. Thermal plasma processing of materials: A review Advanced Performance Materials, Vol 1, No 1, pp 35-50
- 1993 Lee, Stacy Ray; The Role of carbon dioxide in the combustion of kraft black liquor char THES
- 1993 Treagust, D.F. The evolution of an approach for using analogies in teaching and learning science Research in Science Education, Vol 23, No 1, pp 293-301
- 1988 Lynch, P.P. and Shadbolt, T. Problem solving and the video practical: the iron wool/acetic acid experiment Research in Science Education, Vol 18, No 1, pp 134-142
- 1988 Lynch, P.P. and Webb, P. Linking the aims of practical work to assessment procedures in teaching situations Research in Science Education, Vol 18, No 1, pp 258-267