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2021	Chen, M., Avarmaa, K., Taskinen, P., Klemettinen, L., Michallik, R., O'Brien, H., Jokilaakso, A.	Handling trace elements in WEEE recycling through copper smelting - an experimental and thermodynamic study	Minerals Engineering, 173, art. No. 107189
2021	Avarmaa, K., Taskinen, P., Klemettinen, L., O'Brien, H., Lindberg, D.	Ni-Fe-Co alloy – magnesia-iron-silicate slag equilibria and the behavior of minor elements Cu and P in nickel slag cleaning	Journal of Materials Research and Technology, 15, pp. 719-730.
2021	Teixeira, L.T., Braz, W.F., Correia de Siqueira, R.N., Pandoli, O.G., Geraldes, M.C.	Sulfated and carboxylated nanocellulose for Co+2 adsorption	Journal of Materials Research and Technology, 15, pp. 434-447.
2021	Makuza, B., Yu, D., Huang, Z., Tian, Q., Guo, X.	Dry Grinding - Carbonated Ultrasound-Assisted Water Leaching of Carbothermally Reduced Lithium-Ion Battery Black Mass Towards Enhanced Selective Extraction of Lithium and Recovery of High-Value Metals	Resources, Conservation and Recycling, 174, art. no. 105784
2021	Staničić, I., Cañete Vela, I., Backman, R., Maric, J., Cao, Y., Mattisson, T.	Fate of lead, copper, zinc and antimony during chemical looping gasification of automotive shredder residue	Fuel, 302, art. no. 121147
2021	Monteverde, F., Saraga, F., Gaboardi, M., Plaisier, J.R.	Compositional pathways and anisotropic thermal expansion of high-entropy transition metal diborides	Journal of the European Ceramic Society, 41 (13), pp. 6255-6266.
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2021	Božinović, K., Štrbac, N., Mitovski, A., Sokić, M., Minić, D., Marković, B., Stojanović, J.	Thermal decomposition and kinetics of pentlandite-bearing ore oxidation in the air atmosphere	Metals, 11 (9), art. no. 1364
2021	Papadopoulou, P., Peñaloza, D., Asbjörnsson, G., Hulthén, E., Evertsson, M.	Development of a pre-verified epd tool with process simulation capabilities for the aggregates industry	Sustainability (Switzerland), 13 (17), art. no. 9492
2021	Rego, A.S.C., Marprates, C.V.B., Silva, T.S.X., Neto, J.G., Navarro, R.C.S., Souza, R.F.M., Brocchi, E.A.	KAl(SO ₄) ₂ thermal decomposition kinetics modeling through graphical and PSO methods	Journal of Materials Research and Technology, 14, pp. 1975-1984.
2021	Kashyap, V., Taylor, P., Tshijik Karumb, E., Cheshire, M.	Application of zinc ferrite reduction in the extraction of Zn, Ga and In from zinc refinery residue	Minerals Engineering, 171, art. no. 107078
2021	Szczepan, V., Petitjean, C., Panteix, P.J., Vilasi, M.	Contribution of modeling to explain the depassivation of chromia-forming alloys in molten glasses	Corrosion Science, 190, art. no. 109697
2021	Li, Y., Xue, H., Taskinen, P., Jokilaakso, A., Tang, C., Jin, W., Rämä, M., Chen, Y., Yang, S.	Clean antimony production from stibnite concentrate with goethite residue co-treatment for zinc, iron, sulfur conservation	Journal of Cleaner Production, 313, art. no. 127847
2021	Gonzales, A., Watkins, J.K., Wagner, A.R., Jaques, B.J., Sooby, E.S.	Challenges and opportunities to alloyed and composite fuel architectures to mitigate high uranium density fuel oxidation: uranium silicide	Journal of Nuclear Materials, 553, art. no. 153026
2021	Zhao, Q., Zhang, X., Wang, H., Liu, M., Lundin, S.-T.B., Shu, S., Kong, H., Hu, X.	Feasibility of solar thermochemical natural gas desulphurization and hydrogen generation with a membrane reactor	Journal of Cleaner Production, 312, art. no. 127835
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2021	Kanari, N., Menad, N.-E., Filippov, L.O., Shallari, S., Allain, E., Patisson, F., Yvon, J.	Some aspects of the thermochemical route for the valorization of plasticwastes, Part I: Reduction of iron oxides by Polyvinyl Chloride (PVC)	Materials, 14 (15), art. no. 4129
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2021	Liu, F., Chen, F., Wang, L., Ma, S., Wan, X., Wang, J.	Selective separation of rare earths from spent Nd-Fe-B magnets using two-stage ammonium sulfate roasting followed by water leaching	Hydrometallurgy, 203, art. no. 105626
2021	Song, S.K., Kim, J.-S., Margavio, H.R.M., Parsons, G.N.	Multimaterial Self-Aligned Nanopatterning by Simultaneous Adjacent Thin Film Deposition and Etching	ACS Nano, 15 (7), pp. 12276-12285.
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2021	Wan, X., Taskinen, P., Shi, J., Jokilaakso, A.	A potential industrial waste–waste co-treatment process of utilizing waste SO ₂ gas and residue heat to recover Co, Ni, and Cu from copper smelting slag	Journal of Hazardous Materials, 414, art. no. 125541
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2021	Zhang, J., Li, B., Li, Y., Lu, J., Wang, K., Zhang, H.	Effect of sulfide on corrosion behavior of stainless steel 316SS and Hastelloy C276 in sub/supercritical water	International Journal of Hydrogen Energy, 46 (42), pp. 22222-22233.
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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 ₂ O-Al ₂ O 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 _x -SiO ₂ -Al ₂ O 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-Kahrizsangi, Mohammadreza Kalani Mahabadi, Omid Torabi	An investigation on the mechanochemical behavior of the Ca–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. Andracka, 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, Guisepppe 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 Ilijana, 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 Zabłocka-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. Kruizenga, 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 Mayin	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 Cl��men��on, Florent Moreau, Christophe Geantet	Innovative low temperature regenerable zinc based mixed oxide sorbents for synthesis gas desulfurization	Fuel 140 (2015) 453-461
2015	M Radepont, 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, Ume�� 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; Kruizenga, 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 C5 and C6 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 US 20140199607
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	
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. Zygogianni, 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 sor Q1 bents 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 Kruizenga	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. Gribbin, 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 Künniger, 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 Brellocks, Stefan Steiert, Peter Sichler, Tonja Marquard-Möllenstedt, Michael Specht (ZSW)	Machbarkeitsstudie für die Methanherzeugung 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	

2013	Glasser Leslie (Curtin University)	Estimation of the Thermodynamics of Ionic Materials	Materials Science & Nanotechnology 1:1 (2013)
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 AgBi ₃ S ₅ 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, $\Delta fH(298)_{ion}$, and Gibbs Formation Energies, $\Delta fG(298)_{ion}$	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'Aloya, 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 Kraaijveld, 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 Havlík, 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 CO ₂ 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 CINESTAV-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	Metal 65:5 (2011) 211-217
2011	Perti 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. Kiviahio	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 Kasui	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	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	CO ₂ 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 CO ₂ 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 H ₂ - and CH ₄ -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
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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

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