

# In-Ho Jung

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

292  
papers

7,745  
citations

42  
h-index

78  
g-index

313  
ext. papers

8,885  
ext. citations

3.4  
avg. IF

6.33  
L-index

#	Paper	IF	Citations
292	Ferromanganese Production in a Submerged Arc Furnace: Thermodynamic and Energy Balance Analysis. <i>Jom</i> , <b>2022</b> , 74, 1624	2.1	0
291	Numerical modeling of oxide particle evolution during additive manufacturing. <i>Additive Manufacturing</i> , <b>2022</b> , 51, 102631	6.1	0
290	Kinetic Simulation of Hot Metal Pretreatment: Desulfurization Using Powder Injection. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2022</b> , 53, 981	2.5	2
289	Oxidative Refining of Metallurgical Grade Silicon: Lab-Scale Measurements on the Overarching Refining Behavior of Ca and Al. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2022</b> , 53, 1103	2.5	0
288	Coupled experimental phase diagram study and thermodynamic optimization of the Na <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> -Fe <sub>2</sub> O <sub>3</sub> system in air. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2022</b> , 76, 102364	1.9	0
287	Thermodynamic assessment of the Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> , CaO-Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> , and Al <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> systems. <i>Ceramics International</i> , <b>2021</b> ,	5.1	1
286	Phase diagram study of the SnO <sub>2</sub> -SiO <sub>2</sub> system and thermodynamic optimization of the SnO-SnO <sub>2</sub> -SiO <sub>2</sub> system. <i>Ceramics International</i> , <b>2021</b> , 48, 4141-4141	5.1	0
285	Computational discovery of metal oxides for chemical looping hydrogen production. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100362	6.1	2
284	Experimental investigation and thermodynamic modeling of the Mg-Bi-Br ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2021</b> , 72, 102237	1.9	3
283	A model for multicomponent diffusion in oxide melts. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2021</b> , 72, 102246	1.9	0
282	Modeling the viscosity of silicate melts containing Fe oxide: Fe saturation condition. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2021</b> , 72, 102242	1.9	0
281	Microstructural Characterization of TiC-Reinforced Metal Matrix Composites Fabricated by Laser Cladding Using FeCrCoNiAlTiC High Entropy Alloy Powder. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6580	2.6	0
280	Coupled Experimental Study and Thermodynamic Modeling of the Fe-Mn-Ti System. <i>Metals and Materials International</i> , <b>2021</b> , 27, 725-743	2.4	0
279	Thermodynamic optimization of the Mn-B and Fe-Mn-B systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2021</b> , 72, 102226	1.9	0
278	New Production Route for Vanadium Nitride Master Alloy: Experimental and Thermodynamic Analysis. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 956-967	2.5	2
277	Modeling the viscosity of silicate melts containing Fe oxide: FeO/Fe <sub>2</sub> O <sub>3</sub> containing system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2021</b> , 72, 102244	1.9	0
276	Critical evaluation and thermodynamic modeling of the Ag-X (X=Mn, Y, Sr) binary systems. <i>Intermetallics</i> , <b>2021</b> , 136, 107260	3.5	1

275	Critical evaluation and the thermodynamic optimization of the Sn-O system. <i>Ceramics International</i> , <b>2021</b> , 47, 29267-29276	5.1	2
274	Experimental measurement and thermodynamic evaluation of the Mg + Cu + Sr ternary system. <i>Journal of Chemical Thermodynamics</i> , <b>2021</b> , 163, 106582	2.9	1
273	Improved oxidation resistance of SPS sintered Si <sub>2</sub> BC <sub>3</sub> N ceramics with disilicides (MoSi <sub>2</sub> , HfSi <sub>2</sub> , TaSi <sub>2</sub> ) addition. <i>Ceramics International</i> , <b>2020</b> , 46, 18079-18088	5.1	4
272	Thermodynamic Modeling of the Na <sub>2</sub> O-SiO <sub>2</sub> -As <sub>2</sub> O <sub>5</sub> System and Its Application to Arsenic Immobilization Using Glass Formation. <i>Jom</i> , <b>2020</b> , 72, 3213-3223	2.1	
271	Coupled Experimental Study and Thermodynamic Modeling of the MgO-MnO-Mn <sub>2</sub> O <sub>3</sub> -Ti <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> System. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2020</b> , 41, 103-115	1	
270	Phase Equilibrium Diagram for Electric Arc Furnace Slag Optimization in High Alloyed Chromium Stainless Steelmaking. <i>Metals</i> , <b>2020</b> , 10, 826	2.3	2
269	Stabilization of FCC Phase Using Mn Incorporation in Nanograin Invar Alloy Foils Fabricated by Electroforming. <i>Electronic Materials Letters</i> , <b>2020</b> , 16, 188-194	2.9	1
268	DED Type Laser Additive Manufacturing Technology of Oxide Ceramics. <i>Journal of Welding and Joining</i> , <b>2020</b> , 38, 469-478	1.1	1
267	A coupled phase diagram experimental study and thermodynamic optimization of the Li <sub>2</sub> O-CaO-Al <sub>2</sub> O <sub>3</sub> and Li <sub>2</sub> O-CaO-SiO <sub>2</sub> systems, and prediction of the phase diagrams of the Li <sub>2</sub> O-CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> system. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 2185-2199	6	4
266	High-capacity thermochemical CO <sub>2</sub> dissociation using iron-poor ferrites. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 592-600	35.4	12
265	Critical evaluation and thermodynamic assessment of the R <sub>2</sub> O <sub>3</sub> P <sub>2</sub> O <sub>5</sub> (R = Li, Na and K) systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2020</b> , 68, 101718	1.9	4
264	Designing environment-friendly chromium-free Spinel-Periclase-Zirconia refractories for Ruhrstahl Heraeus degasser. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 7095-7114	3.8	4
263	Computational Thermodynamic Calculations: FactSage from CALPHAD Thermodynamic Database to Virtual Process Simulation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2020</b> , 51, 1851-1874	2.5	28
262	Critical Evaluation and Thermodynamic Optimization of the Al-P and Fe-Al-P Systems. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2020</b> , 41, 598-614	1	0
261	Critical Evaluation and Thermodynamic Optimization of the Fe-P System. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2020</b> , 51, 3108-3129	2.5	3
260	Effect of TiN Spray Coating on Cracking Susceptibility and Energy Absorption in Laser Welding of Aluminum Alloys. <i>Metals</i> , <b>2020</b> , 10, 1657	2.3	0
259	Microstructures and mechanical properties of ternary Ti <sub>3</sub> Si <sub>3</sub> Sn alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 770, 138472	5.3	3
258	Coupled Experimental Study and Thermodynamic Modeling of the Al <sub>2</sub> O <sub>3</sub> -Ti <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> System. <i>ISIJ International</i> , <b>2020</b> , 60, 31-41	1.7	6

257	Post-annealing effect on transparent Mg-Zn aluminate solid solutions fabricated by spark plasma sintering. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 5350-5357	6	3
256	Thermochemical Data of Selected Phases in the FeO-FeSO <sub>4</sub> -Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> System. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 227-240	0.3	
255	Thermodynamic Modeling of the SFCA Phase Ca <sub>2</sub> (Fe, Ca) <sub>6</sub> (Fe, Al, Si) <sub>6</sub> O <sub>20</sub> . <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , <b>2019</b> , 105, 493-501	0.5	1
254	Coupled experimental study and thermodynamic modeling of the MnO-Mn <sub>2</sub> O <sub>3</sub> -Ti <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2019</b> , 66, 101639	1.9	4
253	Predictive fabrication of Ni phosphide embedded in carbon nanofibers as active and stable electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7451-7458	13	17
252	Critical evaluation and thermodynamic modeling of the Fe-VO (FeO-Fe <sub>2</sub> O <sub>3</sub> -VO-VO <sub>2</sub> -VO <sub>2</sub> -VO <sub>2</sub> O <sub>5</sub> ) system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2019</b> , 67, 101682	1.9	9
251	Efficient Measurement of the Influence of Chemical Composition on Corrosion: Analysis of an Mg-Al Diffusion Couple Using Scanning Micropipette Contact Method. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, C624-C630	3.9	7
250	Precipitation kinetic model and its applications to Mg alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2019</b> , 64, 196-204	1.9	7
249	Thermodynamic evaluation and optimization of the BaO-SiO <sub>2</sub> and BaO-CaO-SiO <sub>2</sub> systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2018</b> , 61, 140-147	1.9	4
248	Thermodynamic modeling of the K <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> and K <sub>2</sub> O-MgO-Al <sub>2</sub> O <sub>3</sub> systems with emphasis on $\delta$ and $\beta$ -aluminas. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 3188-3200	6	4
247	Coupled experimental phase diagram study and thermodynamic modeling of the Li <sub>2</sub> O-Na <sub>2</sub> O-SiO <sub>2</sub> system. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 2074-2089	6	6
246	Coupled experimental phase diagram study and thermodynamic optimization of the Li <sub>2</sub> O-MgO-SiO <sub>2</sub> system. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 1711-1726	3.8	2
245	Critical Evaluation and Thermodynamic Optimization of the Li <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> and Li <sub>2</sub> O-MgO-Al <sub>2</sub> O <sub>3</sub> Systems. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 2917-2944	2.5	13
244	Pedagogy of Programming Education for Higher Education Using Block Based Programming Environment. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 39-50	0.9	
243	Critical thermodynamic optimization of the Li <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> system and its application for the thermodynamic analysis of the glass-ceramics. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 3881-3904	6	13
242	Thermodynamic optimization of the K <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> system. <i>Ceramics International</i> , <b>2018</b> , 44, 16712-16724	3.24	18
241	Thermodynamic analysis of 6xxx series Al alloys: Phase fraction diagrams. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , <b>2018</b> , 54, 119-131	1	4
240	Applications of Thermodynamic Database to the Kinetic Steelmaking Process Simulations <b>2018</b> , 47-66		4

239 1D Solidification Model for the Prediction of Microstructural Evolution in Light Alloys **2018**, 89-103

238 Thermodynamic Modeling of the SFCA Phase  $\text{Ca}_2(\text{Fe,Ca})_6(\text{Fe,Al,Si})_6\text{O}_{20}$ . *ISIJ International*, **2018**, 58, 259-266 19

237 Critical Evaluation and Optimization of the Fe-N, Mn-N and Fe-Mn-N Systems. *Journal of Phase Equilibria and Diffusion*, **2018**, 39, 650-677 1 6

236 A Kinetic Ladle Furnace Process Simulation Model: Effective Equilibrium Reaction Zone Model Using FactSage Macro Processing. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2017**, 48, 28-36 2.5 48

235 Application of Thermodynamic Calculations to the Pyro-refining Process for Production of High Purity Bismuth. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2017**, 48, 73-90 2.5 4

234 Critical evaluation and thermodynamic assessment of the MgO-V<sub>2</sub>O<sub>5</sub> and CaO-V<sub>2</sub>O<sub>5</sub> systems in air. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 56, 72-79 1.9 16

233 Critical reassessment of the Fe-Si system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 56, 108-125 1.9 45

232 Design of New 6xxx Series Al Alloy Using the Calphad Thermodynamic Database. *Minerals, Metals and Materials Series*, **2017**, 159-165 0.3 1

231 The role of the Zn/Nd ratio in the microstructural evolution of the Mg-Zn-Nd system during static recrystallization: Grain boundary partitioning of solutes. *Scripta Materialia*, **2017**, 134, 1-5 5.6 19

230 Thermodynamic modeling of the quaternary Al-Cu-Mg-Si system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 57, 1-27 1.9 18

229 Critical evaluation and thermodynamic optimization of the Li-O, and Li<sub>2</sub>O-SiO<sub>2</sub> systems. *Journal of the European Ceramic Society*, **2017**, 37, 2189-2207 6 13

228 Thermodynamic modeling of the Cu-Fe-Cr and Cu-Fe-Mn systems. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 56, 241-259 1.9 23

227 Estimation of thermodynamic properties of oxide compounds from polyhedron method. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 57, 107-117 1.9 4

226 Critical Systematic Evaluation and Thermodynamic Optimization of the Fe-RE System: RE = Gd, Tb, Dy, Ho, Er, Tm, Lu, and Y. *Journal of Phase Equilibria and Diffusion*, **2017**, 38, 509-542 1 12

225 Fractional Crystallization Model of Multicomponent Aluminum Alloys: A Case Study of Aircraft Recycling. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2017**, 48, 1024-1034 2.5 4

224 Coupled experimental study and thermodynamic optimization of the K<sub>2</sub>O-SiO<sub>2</sub> system. *Journal of Non-Crystalline Solids*, **2017**, 471, 51-64 3.9 7

223 Thermodynamic assessments of the Cr-Si and Al-Cr-Si systems. *Journal of Alloys and Compounds*, **2017**, 708, 887-902 5.7 16

222 Recent Progress on the Factsage Thermodynamic Database for New Mg Alloy Development. *Jom*, **2017**, 69, 1052-1059 2.1 6

221	Critical Evaluations and Thermodynamic Optimizations of the MnO-Mn <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> and FeO-Fe <sub>2</sub> O <sub>3</sub> -MnO-Mn <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Systems. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 1721-1735	2.5	4
220	A coupled experimental and thermodynamic study of the Al-Cr and Al-Cr-Mg systems. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 698, 1038-1057	5.7	15
219	Topotactic Metal-Insulator Transition in Epitaxial SrFeO Thin Films. <i>Advanced Materials</i> , <b>2017</b> , 29, 16065-16071	6.4	67
218	Critical evaluation of thermodynamic properties of rare earth sesquioxides (RE = La, Ce, Pr, Nd, Pm, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Sc and Y). <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2017</b> , 58, 169-203	1.9	19
217	Coupled Experimental Study and Thermodynamic Optimization of the K <sub>2</sub> O-MgO and K <sub>2</sub> O-MgO-SiO <sub>2</sub> Systems. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 2788-2803	2.5	4
216	Thermodynamic Assessments of the Fe-Si-Cr and Fe-Si-Mg Systems. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 4342-4355	2.3	8
215	Thermodynamic Modeling of the Al-Cr-Mn Ternary System. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 1383-1401	2.3	5
214	Mg-Ca Alloys Produced by Reduction of CaO: Understanding of ECO-Mg Alloy Production. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 1073-1078	2.5	5
213	Coupled phase diagram experiments and thermodynamic optimization of the binary Li <sub>2</sub> O-MgO and Li <sub>2</sub> O-CaO systems and ternary Li <sub>2</sub> O-MgO-CaO system. <i>Ceramics International</i> , <b>2017</b> , 43, 13055-13062	5.1	9
212	Critical evaluation and thermodynamic optimization of the Na <sub>2</sub> O-BeO-Be <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> system. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 787-800	6	8
211	Thermodynamic modeling of the CaO-SiO <sub>2</sub> -ZrO <sub>2</sub> system coupled with key phase diagram experiments. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 1095-1104	6	7
210	Critical evaluation and thermodynamic optimization of the CaO-ZrO <sub>2</sub> and SiO <sub>2</sub> -ZrO <sub>2</sub> systems. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 1105-1116	6	22
209	Experimental Investigation and Thermodynamic Modeling of the B <sub>2</sub> O <sub>3</sub> -FeO-Fe <sub>2</sub> O <sub>3</sub> -Nd <sub>2</sub> O <sub>3</sub> System for Recycling of NdFeB Magnet Scrap. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 60-72	2.5	14
208	Experimental investigation of the LiAlSi <sub>2</sub> O <sub>6</sub> -MgSiO <sub>3</sub> and LiAlSi <sub>2</sub> O <sub>6</sub> -CaMgSi <sub>2</sub> O <sub>6</sub> isopleths at 1 atm. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 3269-3282	3.8	8
207	Thermodynamic Analysis of the Recycling of Aircraft AL Alloys. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 259-266	0.3	1
206	The Role of the Nd/Zn Ratio on the Stability of Mg-Zn-Nd Clusters and the Evolution of Texture in Two Mg-Zn-Nd Alloys during Annealing. <i>Materials Science Forum</i> , <b>2016</b> , 879, 542-547	0.4	
205	Dynamic Transformation during Plate and Strip Rolling. <i>Materials Science Forum</i> , <b>2016</b> , 879, 29-35	0.4	1
204	Critical evaluation and thermodynamic optimization of the SnRE systems: Part I. SnRE system (RE=La, Ce, Pr, Nd and Sm). <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2016</b> , 55, 113-133	1.9	12

203	A metastable phase diagram for the dynamic transformation of austenite at temperatures above the Ae3. <i>International Journal of Materials Research</i> , <b>2016</b> , 107, 881-886	0.5	13
202	Effect of Dynamic Recrystallization on Microstructure Evolution and Texture Weakening during Annealing of High Speed Rolled AZ31 Magnesium Alloy Sheets <b>2016</b> , 267-271		
201	Non-Basal Texture Evolution during Annealing of Cold-Deformed Magnesium Alloy <b>2016</b> , 239-243		
200	Critical Systematic Evaluation and Thermodynamic Optimization of the Fe-RE System: RE = La, Ce, Pr, Nd and Sm. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2016</b> , 37, 438-458	1	20
199	A Structural Electrical Conductivity Model for Oxide Melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 355-383	2.5	13
198	A Structural Molar Volume Model for Oxide Melts Part II: Li2O-Na2O-K2O-MgO-CaO-MnO-PbO-Al2O3-SiO2 Melts Ternary and Multicomponent Systems. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 1145-1164	2.5	7
197	FactSage thermochemical software and databases, 2010-2016. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2016</b> , 54, 35-53	1.9	875
196	Thermodynamic Modeling of Oxide Phases in the Mn-O System. <i>Metallurgical and Materials Transactions E</i> , <b>2016</b> , 3, 156-170		1
195	Aluminum Deoxidation Equilibria in Liquid Iron: Part III Experiments and Thermodynamic Modeling of the Fe-Mn-Al-O System. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 2837-2847	2.5	19
194	Thermodynamics of Nitrogen in Fe-Mn-Al-Si-C Alloy Melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 1243-1262	2.5	9
193	Coupled Experimental and Thermodynamic Optimization of the Na2O-FeO-Fe2O3-Al2O3 System: Part 2. Thermodynamic Optimization. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 715-722	3.8	3
192	Modelling temperature and concentration dependent solid/liquid interfacial energies. <i>Philosophical Magazine</i> , <b>2016</b> , 96, 1-14	1.6	28
191	Effect of annealing on microstructure and texture evolution of uniaxial hot compressed Mg-Al-Zn alloys. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 1600-1609	4.3	6
190	Limitation of Sulfide Capacity Concept for Molten Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 819-823	2.5	5
189	Dynamic recrystallization mechanisms during high speed rolling of Mg-Al-Zn alloy sheets. <i>Scripta Materialia</i> , <b>2016</b> , 113, 198-201	5.6	44
188	Critical Evaluation and Thermodynamic Optimization of the Na2O-FeO-Fe2O3-SiO2 System. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 291-308	2.5	7
187	A Structural Molar Volume Model for Oxide Melts Part I: Li2O-Na2O-K2O-MgO-CaO-MnO-PbO-Al2O3-SiO2 Melts Binary Systems. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 1147-1164	2.5	6
186	Non-Basal Texture Evolution During Annealing of Cold-Deformed Magnesium Alloy <b>2016</b> , 239-243		

185	Effect of Dynamic Recrystallization on Microstructure Evolution and Texture Weakening During Annealing of High Speed Rolled AZ31 Magnesium Alloy Sheets <b>2016</b> , 267-271		
184	Understanding Phase Equilibria in Slags Containing Vanadium <b>2016</b> , 1397-1403		
183	Understanding Phase Equilibria in Slags Containing Vanadium <b>2016</b> , 1397-1403		
182	Coupled Experimental and Thermodynamic Optimization of the Na <sub>2</sub> O-FeO-Fe <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> System: Part 1. Phase Diagram Experiments. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 705-714	3.8	3
181	Thermodynamic Modeling of Sulfide Capacity of Na <sub>2</sub> O-Containing Oxide Melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 2875-2888	2.5	10
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50	Reassessment of C+O=CO (g) Equilibration. <i>ISIJ International</i> , <b>2009</b> , 49, 1272-1275	1.7	4
49	A model to calculate the viscosity of silicate melts. <i>International Journal of Materials Research</i> , <b>2008</b> , 99, 1185-1194	0.5	67
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46	Morphology and chemistry of oxide inclusions after Al and Ti complex deoxidation. <i>Metals and Materials International</i> , <b>2008</b> , 14, 791-798	2.4	40
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43	Thermodynamic modeling of the CoO-SiO <sub>2</sub> and CoO-FeO-Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> systems. <i>International Journal of Materials Research</i> , <b>2007</b> , 98, 816-825	0.5	10
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8	Effect of Strain Rate on the Kinetics of Hot Deformation of AZ31 with Different Initial Texture		311-316
7	Corrosion Behavior of Various Steels by AZ31 Magnesium Melt		261-264
6	The Texture and Microstructure Evolution of Mg-Zn-Ce Alloys		101-106

5	Thermodynamic and Kinetic Calculations for TRC (Twin Roll Casting) Mg Alloy Design17-17		
4	Anomalous Dimensionality-Driven Phase Transition of MoTe <sub>2</sub> in Van der Waals Heterostructure. <i>Advanced Functional Materials</i> ,2107376	15.6	3
3	Electrolysis of iron with oxygen gas evolution from molten sodium borate electrolytes. <i>Ironmaking and Steelmaking</i> ,1-8	1.3	2
2	Solidification Studies of Mg-Al Binary Alloys175-178		1
1	Precipitation Formation and Grain Refinement of Mg-Al-Sn Alloy during Hot Deformation549-554		1