In-Ho Jung

List of Publications by Citations

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	FactSage thermochemical software and databases □recent developments. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2009**, 33, 295-311	1.9	1224
291	FactSage thermochemical software and databases, 2010□2016. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2016**, 54, 35-53	1.9	875
290	Role of RE in the deformation and recrystallization of Mg alloy and a new alloy design concept for Mg□RE alloys. *Scripta Materialia*, **2015**, 102, 1-6	5.6	160
289	Development of 3rd generation AHSS with medium Mn content alloying compositions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 564, 501-508	5.3	141
288	Reprint of: FactSage thermochemical software and databases, 2010□2016. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2016**, 55, 1-19	1.9	137
287	Microstructure and tensile properties of twin-roll cast Mg□Zn□Mn□Al alloys. *Scripta Materialia*, **2007**, 57, 793-796	5.6	132
286	Inhibitory effect of Weissella cibaria isolates on the production of volatile sulphur compounds. *Journal of Clinical Periodontology*, **2006**, 33, 226-32	7.7	124
285	Thermodynamic modeling of the Mg□Si□Sn system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2007**, 31, 192-200	1.9	116
284	A thermodynamic model for deoxidation equilibria in steel. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2004**, 35, 493-507	2.5	116
283	Thermodynamic modeling and diffusion kinetic experiments of binary Mg□Cd and Mg□Y systems. *Acta Materialia*, **2014**, 71, 164-175	8.4	110
282	Computer Applications of Thermodynamic Databases to Inclusion Engineering. *ISIJ International*, **2004**, 44, 527-536	1.7	102
281	Critical thermodynamic evaluation and optimization of the CaO□MgO□SiO2 system. *Journal of the European Ceramic Society*, **2005**, 25, 313-333	6	102
280	A Kinetic Model for the Ruhrstahl Heraeus (RH) Degassing Process. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2011**, 42, 477-489	2.5	91
279	Critical thermodynamic evaluation and optimization of the MgO-Al2O3, CaO-MgO-Al2O3, and MgO-Al2O3-SiO2 Systems. *Journal of Phase Equilibria and Diffusion*, **2004**, 25, 329-345	1	83
278	Effect of strain-induced precipitation on dynamic recrystallization in Mg□Al□Sn alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 616, 252-259	5.3	75
277	The dynamic transformation of deformed austenite at temperatures above the Ae3. *Acta Materialia*, **2013**, 61, 2348-2362	8.4	74
276	Overview of the applications of thermodynamic databases to steelmaking processes. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2010**, 34, 332-362	1.9	72

275	Role of yttrium in the microstructure and texture evolution of Mg. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 6742-6753	5.3	72
274	Critical evaluation and thermodynamic modeling of the MnCrO system for the oxidation of SOFC interconnect. *Solid State Ionics*, **2006**, 177, 765-777	3.3	69
273	Effects of vinylene carbonate on high temperature storage of high voltage Li-ion batteries. *Journal of Power Sources*, **2011**, 196, 9810-9814	8.9	68
272	Thermodynamic Modeling of the Al2O3Ti2O3TiO2 System and Its Applications to the FeAlTiO Inclusion Diagram. *ISIJ International*, **2009**, 49, 1290-1297	1.7	68
271	Topotactic Metal-Insulator Transition in Epitaxial SrFeO Thin Films. *Advanced Materials*, **2017**, 29, 1606566	24	67
270	A model to calculate the viscosity of silicate melts. *International Journal of Materials Research*, **2008**, 99, 1185-1194	0.5	67
269	Investigation of anisotropic diffusion behavior of Zn in hcp Mg and interdiffusion coefficients of intermediate phases in the MgZn system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2013**, 42, 51-58	1.9	61
268	Thermodynamic evaluation and modeling of the FeCoO system. *Acta Materialia*, **2004**, 52, 507-519	8.4	57
267	Reoxidation of Al-Ti Containing Steels by CaO-Al2O3-MgO-SiO2 Slag. *ISIJ International*, **2004**, 44, 1669-1678	1.7	56
266	Critical thermodynamic evaluation and optimization of the FeB, FeNd, BNd and NdFeB systems. *Journal of Alloys and Compounds*, **2013**, 548, 133-154	5.7	55
265	Thermodynamic evaluation and optimization of the MnO-Al2O3 and MnO-Al2O3-SiO2 systems and applications to inclusion engineering. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2004**, 35, 259-268	2.5	54
264	Critical thermodynamic evaluation and optimization of the FeMgO system. *Journal of Physics and Chemistry of Solids*, **2004**, 65, 1683-1695	3.9	54
263	Anisotropic Diffusion Behavior of Al in Mg: Diffusion Couple Study Using Mg Single Crystal. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 2539-2547	2.3	53
262	Promotion of texture weakening in magnesium by alloying and thermomechanical processing: (I) alloying. *Journal of Materials Science*, **2014**, 49, 1408-1425	4.3	50
261	A model to calculate the viscosity of silicate melts. *International Journal of Materials Research*, **2008**, 99, 1195-1209	0.5	50
260	The evolution of the growth morphology in MgAl alloys depending on the cooling rate during solidification. *Acta Materialia*, **2013**, 61, 4848-4860	8.4	49
259	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
258	Inclusion Population Evolution in Ti-alloyed Al-killed Steel during Secondary Steelmaking Process. *ISIJ International*, **2012**, 52, 52-61	1.7	48

257	Dissolution Behavior of Al2O3 and MgO Inclusions in the CaO□Al2O3□SiO2 Slags: Formation of Ring-like Structure of MgAl2O4 and Ca2SiO4 around MgO Inclusions. *ISIJ International*, **2006**, 46, 1626-1634	1.7	46
256	Critical reassessment of the Fe-Si system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 56, 108-125	1.9	45
255	Effect of dynamic precipitation and twinning on dynamic recrystallization of micro-alloyed Mg□Al□Ca alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 587, 27-35	5.3	45
254	Characteristics of magnesium AZ31 alloys subjected to high speed rolling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 636, 582-592	5.3	44
253	Dynamic recrystallization mechanisms during high speed rolling of Mg□Al□Zn alloy sheets. *Scripta Materialia*, **2016**, 113, 198-201	5.6	44
252	Critical thermodynamic evaluation and optimization of the FeO-Fe2O3-MgO-SiO2 system. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2004**, 35, 877-889	2.5	44
251	An investigation of formation of second phases in microalloyed, AZ31 Mg alloys with Ca, Sr and Ce. *Journal of Alloys and Compounds*, **2010**, 492, 173-183	5.7	43
250	Influence of the chemical composition on transformation behaviour of low carbon microalloyed steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 520, 90-96	5.3	41
249	Critical thermodynamic evaluation and optimization of the Ag□r, Cu□r and Ag□Cu□r systems and its applications to amorphous Cu□r□Ag alloys. *Intermetallics*, **2010**, 18, 815-833	3.5	40
248	Interfacial Reaction between Refractory Materials and Metallurgical Slags containing Fluoride. *Steel Research International*, **2010**, 81, 860-868	1.6	40
247	Morphology and chemistry of oxide inclusions after Al and Ti complex deoxidation. *Metals and Materials International*, **2008**, 14, 791-798	2.4	40
246	Melting of □quartz up to 2.0 GPa and thermodynamic optimization of the silica liquidus up to 6.0 GPa. *Physics of the Earth and Planetary Interiors*, **2002**, 130, 159-174	2.3	40
245	A new approach to surface properties of solid electrolyte interphase on a graphite negative electrode. *Journal of Power Sources*, **2014**, 247, 307-313	8.9	38
244	The effect of varying the particle size of beta tricalcium phosphate carrier of recombinant human bone morphogenetic protein-4 on bone formation in rat calvarial defects. *Journal of Periodontology*, **2006**, 77, 765-72	4.6	38
243	Effect of Al on the Evolution of Non-metallic Inclusions in the Mn-Si-Ti-Mg Deoxidized Steel During Solidification: Experiments and Thermodynamic Calculations. *ISIJ International*, **2004**, 44, 1016-1023	1.7	38
242	Phase Equilibria and Thermodynamic Properties of the CaO-MnO-Al2O3-SiO2 System by Critical Evaluation, Modeling and Experiment. *ISIJ International*, **2004**, 44, 975-983	1.7	36
241	Atomistic modeling of pure Li and Mg□i system. *Modelling and Simulation in Materials Science and Engineering*, **2012**, 20, 035005	2	35
240	Effect of SiO2 on the Crystallization Behaviors and In-Mold Performance of CaF2-CaO-Al2O3 Slags for Drawing-Ingot-Type Electroslag Remelting. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2015**, 46, 2110-2120	2.5	34

239	Thermodynamic modeling of the MgBi and MgSb binary systems and short-range-ordering behavior of the liquid solutions. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2009**, 33, 744-754	1.9	33
238	Critical Thermodynamic Evaluation and Optimization of the CaO-MnO-SiO2 and CaO-MnO-Al2O3 Systems. *ISIJ International*, **2004**, 44, 965-974	1.7	33
237	Microstructure and texture evolution of Mg3Zn3Ce magnesium alloys sheets and associated restoration mechanisms during annealing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 561, 191-202	5.3	32
236	Evolution of Non-Metallic Inclusions in Secondary Steelmaking: Learning from Inclusion Size Distributions. *ISIJ International*, **2013**, 53, 1974-1982	1.7	31
235	Phase diagram study for the CaO-SiO2-Cr2O3-5 mass.%MgO-10 mass.%MnO system. *Metals and Materials International*, **2009**, 15, 677-681	2.4	31
234	Thermodynamic Modeling of the FeO-Fe2O3-MgO-SiO2 System. *Journal of the American Ceramic Society*, **2004**, 85, 2903-2910	3.8	31
233	Experimental study of the phase equilibria in the Mg-Zn-Ag ternary system at 300 °C. *Journal of Alloys and Compounds*, **2015**, 639, 593-601	5.7	30
232	Influence of strain rate on hot deformation behaviour and texture evolution of AZ31B. *Materials Science and Technology*, **2012**, 28, 437-447	1.5	30
231	Effect of Mg on the evolution of non-metallic inclusions in Mn-Si-Ti deoxidised steel during solidification: experiments and thermodynamic calculations. *Ironmaking and Steelmaking*, **2005**, 32, 251-257	1.3	30
230	Diffusion of Nd in hcp Mg and interdiffusion coefficients in Mg-Nd system. *Scripta Materialia*, **2015**, 108, 11-14	5.6	29
229	Modelling temperature and concentration dependent solid/liquid interfacial energies. *Philosophical Magazine*, **2016**, 96, 1-14	1.6	28
228	Development of a Thermodynamic Database for Mold Flux and Application to the Continuous Casting Process. *ISIJ International*, **2014**, 54, 489-495	1.7	28
227	Thermodynamic Assessment of P2O5. *Journal of the American Ceramic Society*, **2012**, 95, 3665-3672	3.8	28
226	Thermodynamic Database for the Al-Ca-Co-Cr-Fe-Mg-Mn-Ni-Si-O-P-S System and Applications in Ferrous Process Metallurgy. *Journal of Phase Equilibria and Diffusion*, **2009**, 30, 443-461	1	28
225	Thermodynamic Modeling of the MgO-Al2O3-CrO-Cr2O3 System. *Journal of the American Ceramic Society*, **2005**, 88, 1921-1928	3.8	28
224	Computational Thermodynamic Calculations: FactSage from CALPHAD Thermodynamic Database to Virtual Process Simulation. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2020**, 51, 1851-1874	2.5	28
223	Critical Evaluation and Thermodynamic Optimization of the Ti-C-O System and Its Applications to Carbothermic TiO2 Reduction Process. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2015**, 46, 1782-1801	2.5	27
222	Thermodynamic modeling of the Mg-Ce-Pb system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2009**, 33, 521-529	1.9	26

221	Thermodynamic modeling of the B2O3SiO2 and B2O3Al2O3 systems. *International Journal of Materials Research*, **2007**, 98, 987-994	0.5	26
220	Investigation of slag-refractory interactions for the Ruhrstahl Heraeus (RH) vacuum degassing process in steelmaking. *Journal of the European Ceramic Society*, **2012**, 32, 1503-1517	6	25
219	Thermodynamic modeling of the Al2O3B2O3SiO2 system. *Journal of Non-Crystalline Solids*, **2009**, 355, 1679-1686	3.9	25
218	Phase equilibria on the ternary MgMnCe system at the Mg-rich corner. *Journal of Alloys and Compounds*, **2009**, 482, 420-428	5.7	25
217	Understanding the solidification and microstructure evolution during CSC-MIG welding of FeCrB-based alloy. *Materials Characterization*, **2013**, 86, 127-138	3.9	24
216	Foaming behavior of powder metallurgical AlSn foams. *Acta Materialia*, **2012**, 60, 759-769	8.4	24
215	Thermodynamic modeling of the MgCeSi, MgCeSn, MgPbSi and MgPbSn systems. *Journal of Alloys and Compounds*, **2010**, 494, 137-147	5.7	24
214	Critical thermodynamic evaluation and optimization of the MnOTiO2 Ti2O3 system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2006**, 30, 235-247	1.9	24
213	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
212	Microstructural evolution in MgZn alloys during solidification: An experimental and simulation study. *Journal of Crystal Growth*, **2014**, 394, 28-38	1.6	23
211	Critical evaluation and thermodynamic optimization of the CaO-ZrO2 and SiO2-ZrO2 systems. *Journal of the European Ceramic Society*, **2017**, 37, 1105-1116	6	22
210	Solidification Microstructure and Mechanical Properties of Hot Rolled and Annealed Mg Sheet Produced through Twin Roll Casting Route. *Materials Science Forum*, **2011**, 690, 331-334	0.4	22
209	A Coupled Experimental Study and Thermodynamic Modeling of the SiO2-P2O5 System. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2013**, 44, 837-852	2.5	21
208	Critical Evaluation and Thermodynamic Modeling of the MgMnO (MgOMnOMnO2) System. *Journal of the American Ceramic Society*, **2014**, 97, 3328-3340	3.8	21
207	Experimental Investigation and Optimization of Thermodynamic Properties and Phase Diagrams in the Systems CaOSiO2, MgOSiO2, CaMgSi2O6SiO2 and CaMgSi2O6Mg2SiO4 to 10 GPa. *Journal of Petrology*, **2005**, 46, 1859-1880	3.9	21
206	Critical Systematic Evaluation and Thermodynamic Optimization of the Fe-RE System: RE = La, Ce, Pr, Nd and Sm. *Journal of Phase Equilibria and Diffusion*, **2016**, 37, 438-458	1	20
205	Twinning and Tripping in 10% Mn steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 591, 90-96	5.3	20
204	Thermodynamic and Experimental Study of the Mg-Sn-Ag-In Quaternary System. *Journal of Phase Equilibria and Diffusion*, **2014**, 35, 284-313	1	20

203	Critical systematic evaluation and thermodynamic optimization of the Mn-RE system: RE=La, Ce, Pr, Nd and Sm. *Journal of Alloys and Compounds*, **2012**, 525, 191-201	5.7	20
202	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
201	Aluminum Deoxidation Equilibria in Liquid Iron: Part III—Experiments and Thermodynamic Modeling of the Fe-Mn-Al-O System. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2016**, 47, 2837-2847	2.5	19
200	Thermodynamic optimizations on the binary Li-Sn system and ternary Mg-Sn-Li system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2014**, 47, 100-113	1.9	19
199	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). *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 58, 169-203	1.9	19
198	Thermodynamic description of the Ag-(Ca, Li, Zn) and Ca-(In, Li) binary systems. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2015**, 50, 68-81	1.9	19
197	Thermodynamic Modeling of the SFCA Phase Ca2(Fe,Ca)6(Fe,Al,Si)6O20. *ISIJ International*, **2018**, 58, 259-266	1.7	19
196	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
195	Critical evaluation and thermodynamic optimisation of the Si-RE systems: Part II. Si-RE system (RE = Gd, Tb, Dy, Ho, Er, Tm, Lu and Y). *Journal of Chemical Thermodynamics*, **2015**, 81, 273-297	2.9	18
194	Thermodynamic optimization of the K2O-Al2O3-SiO2 system. *Ceramics International*, **2018**, 44, 16712-16724	3.1	18
193	Thermodynamic evaluation and optimization of the (Na+X) binary systems (X=Ag, Ca, In, Sn, Zn) using combined Calphad and first-principles methods of calculation. *Journal of Chemical Thermodynamics*, **2013**, 66, 22-33	2.9	18
192	Critical Evaluation and Thermodynamic Optimization of the CaO-P2O5 System. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2015**, 46, 494-522	2.5	17
191	Critical evaluation and thermodynamic modeling of the Al-Mn-O (Al2O3-MnO-Mn2O3) system. *Journal of the European Ceramic Society*, **2014**, 34, 1611-1621	6	17
190	The Evolution of As-cast Microstructure of Ternary Mg-Al-Zn Alloys: An Experimental and Modeling Study. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 3596-3608	2.3	17
189	Chemical Reaction of Glazed Refractory with Al-deoxidized Molten Steel. *ISIJ International*, **2008**, 48, 1542-1551	1.7	17
188	Applications of thermodynamic calculations to Mg alloy design: Mg-Sn based alloy development. *International Journal of Materials Research*, **2007**, 98, 807-815	0.5	17
187	Predictive fabrication of Ni phosphide embedded in carbon nanofibers as active and stable electrocatalysts. *Journal of Materials Chemistry A*, **2019**, 7, 7451-7458	13	17
186	Critical evaluation and thermodynamic assessment of the MgO-V2O5 and CaO-V2O5 systems in air. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 56, 72-79	1.9	16

185	Thermodynamic assessments of the Cr-Si and Al-Cr-Si systems. *Journal of Alloys and Compounds*, **2017**, 708, 887-902	5.7	16
184	Experimental and thermodynamic study of the MgSnLiZn quaternary system. *Journal of Alloys and Compounds*, **2014**, 588, 75-95	5.7	16
183	Experimental and calculated phases in two as-cast and annealed MgZnY alloys. *Materials Characterization*, **2012**, 63, 9-16	3.9	16
182	Critical thermodynamic evaluation and optimization of the CoNd, CuNd and NdNi systems. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2013**, 41, 26-41	1.9	16
181	Thermodynamic Assessment of the MgO-P2O5 and CaO-P2O5 Systems. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2015**, 31, 1853-1863	3.8	16
180	Thermodynamic Calculations for the Dephosphorization of Silicon Using Molten Slag. *Jom*, **2012**, 64, 973-981	2.1	16
179	A coupled experimental and thermodynamic study of the Al-Cr and Al-Cr-Mg systems. *Journal of Alloys and Compounds*, **2017**, 698, 1038-1057	5.7	15
178	Experimental study of the crystal structure of the Mg15ZnxSr3 ternary solid solution in the MgZnSr system at 300°C. *Materials and Design*, **2015**, 86, 305-312	8.1	15
177	Experimental determination of the phase equilibria in the MgZnSr ternary system. *Journal of Materials Science*, **2015**, 50, 7636-7646	4.3	15
176	Critical thermodynamic evaluation and optimization of the PbPr, PbNd, PbTb and PbDy systems. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2014**, 46, 1-17	1.9	15
175	Effect of Sn on the Dehydrogenation Process of TiH2 in Al Foams. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 1-5	2.3	15
174	Phase Diagram Study of the CaO^|^ndash;CaF2 System. *ISIJ International*, **2012**, 52, 1945-1950	1.7	15
173	Thermodynamic modeling of the AlBi, AlSb, MgAlBi and MgAlSb systems. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2010**, 34, 51-63	1.9	15
172	The effect of nanostructure on the oxidation of NiAl. *Intermetallics*, **2014**, 54, 209-217	3.5	14
171	Scale-up modeling of the twin roll casting process for AZ31 magnesium alloy. *Journal of Manufacturing Processes*, **2014**, 16, 468-478	5	14
170	Experimental Investigation and Thermodynamic Modeling of the B2O3-FeO-Fe2O3-Nd2O3 System for Recycling of NdFeB Magnet Scrap. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2017**, 48, 60-72	2.5	14
169	Thermodynamic optimization of the DyNdFeB system and application in the recovery and recycling of rare earth metals from NdFeB magnet. *Green Chemistry*, **2015**, 17, 2246-2262	10	14
168	Rapid solidification of silver-rich AgCuZr alloys. *Journal of Alloys and Compounds*, **2012**, 536, S148-S153	5.7	14

167	A Critical Evaluation and Thermodynamic Optimization of the CaO-CaF2 System. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2012**, 43, 1315-1325	2.5	14
166	Critical evaluation and thermodynamic optimization of the Li-O, and Li2O-SiO2 systems. *Journal of the European Ceramic Society*, **2017**, 37, 2189-2207	6	13
165	A metastable phase diagram for the dynamic transformation of austenite at temperatures above the Ae3. *International Journal of Materials Research*, **2016**, 107, 881-886	0.5	13
164	A Structural Electrical Conductivity Model for Oxide Melts. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2016**, 47, 355-383	2.5	13
163	Critical Evaluation and Thermodynamic Optimization of the Li2O-Al2O3 and Li2O-MgO-Al2O3 Systems. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2018**, 49, 2917-2944	2.5	13
162	Critical thermodynamic optimization of the Li2O-Al2O3-SiO2 system and its application for the thermodynamic analysis of the glass-ceramics. *Journal of the European Ceramic Society*, **2018**, 38, 3881-3904	6	13
161	Chemical Reaction of Glazed Refractory with Al-deoxidized and Ca-treated Molten Steel. *ISIJ International*, **2010**, 50, 1422-1430	1.7	13
160	Critical thermodynamic evaluation and optimization of the MnO–SiO2–TiO2 –Ti2O3 system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2006**, 30, 226-234	1.9	13
159	Thermodynamic Modeling of Gas Solubility In Molten Slags (I)—Carbon and Nitrogen. *ISIJ International*, **2006**, 46, 1577-1586	1.7	13
158	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
157	Critical evaluation and thermodynamic optimization of the Sn–RE systems: Part I. Sn–RE system (RE=La, Ce, Pr, Nd and Sm). *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2016**, 55, 113-133	1.9	12
156	Variations of Microsegregation and Second Phase Fraction of Binary Mg-Al Alloys with Solidification Parameters. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 3308-3320	2.3	12
155	Thermodynamic modeling of the NiO–SiO2, MgO–NiO, CaO–NiO–SiO2, MgO–NiO–SiO2, CaO–MgO–NiO and CaO–MgO–NiO–SiO2 systems. *Journal of the European Ceramic Society*, **2011**, 31, 43-59	6	12
154	Thermodynamic Modeling of Gas Solubility in Molten Slags (II)—Water. *ISIJ International*, **2006**, 46, 1587-1593	1.7	12
153	High-capacity thermochemical CO2 dissociation using iron-poor ferrites. *Energy and Environmental Science*, **2020**, 13, 592-600	35.4	12
152	Thermodynamic modeling of oxide phases in the Fe–Mn–O system. *Journal of Physics and Chemistry of Solids*, **2016**, 98, 237-246	3.9	12
151	Effect of the basal plane orientation on Al and Zn diffusion in hcp Mg. *Materials Characterization*, **2014**, 94, 86-92	3.9	10
150	Grain boundary diffusion of Al in Mg. *Scripta Materialia*, **2014**, 80, 41-44	5.6	10

149	Thermodynamic modelling of Mn-Y and Mn-Gd systems for application of RE in Mg alloy development. *Canadian Metallurgical Quarterly*, **2013**, 52, 311-320	0.9	10
148	Thermodynamic modeling of the CoO□SiO2 and CoO□FeO□Fe2O3□SiO2 systems. *International Journal of Materials Research*, **2007**, 98, 816-825	0.5	10
147	Effect of pressure on liquid-liquid miscibility gaps: A case study of the systems CaO-SiO2, MgO-SiO2, and CaMgSi2O6-SiO2. *Journal of Geophysical Research*, **2004**, 109,		10
146	Thermodynamic Modeling of Sulfide Capacity of Na2O-Containing Oxide Melts. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2016**, 47, 2875-2888	2.5	10
145	Critical evaluation and thermodynamic optimization of the Si-RE systems: Part I. Si-RE system (RE = La, Ce, Pr, Nd and Sm). *Journal of Chemical Thermodynamics*, **2015**, 81, 253-272	2.9	9
144	Thermodynamics of Nitrogen in Fe-Mn-Al-Si-C Alloy Melts. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2016**, 47, 1243-1262	2.5	9
143	Coupled phase diagram experiments and thermodynamic optimization of the binary Li2O-MgO and Li2O-CaO systems and ternary Li2O-MgO-CaO system. *Ceramics International*, **2017**, 43, 13055-13062	5.1	9
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