

Hong Yong Sohn

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.

344
papers

6,507
citations

37
h-index

63
g-index

360
ext. papers

6,982
ext. citations

3.1
avg, IF

6.21
L-index

#	Paper	IF	Citations
344	Flow zone distribution and mixing time in a Peirce-Smith copper converter. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 70-77	3.1	0
343	Plasma Synthesis of Advanced Metal Oxide Nanoparticles and Their Applications as Transparent Conducting Oxide Thin Films. <i>Molecules</i> , 2021 , 26,	4.8	3
342	Recycling and utilization of spent potlining by different high temperature treatments. <i>Journal of Cleaner Production</i> , 2021 , 289, 125704	10.3	5
341	Recovery of Copper and Cobalt from Converter Slags via Reduction-Sulfurization Smelting Using Spent Pot Lining as the Reductant. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4234-4246	8.3	1
340	Analysis of the Gaseous Reduction of Porous Wustite Pellets by Response Surface Methodology. <i>Steel Research International</i> , 2021 , 92, 2100048	1.6	0
339	Kinetics of hydrogen reduction of magnetite concentrate particles at 1623-1873 K relevant to flash ironmaking. <i>Ironmaking and Steelmaking</i> , 2021 , 48, 485-492	1.3	6
338	Hydrogen-Based Flash Ironmaking Technology (HyFIT): A Novel Green Ironmaking Technology With Low Energy Consumption 2021 , 122-130		
337	The kinetics of carbon monoxide reduction of magnetite concentrate particles through CFD modelling. <i>Ironmaking and Steelmaking</i> , 2021 , 48, 769-778	1.3	3
336	Design of Novel Flash Ironmaking Reactors for Greatly Reduced Energy Consumption and CO ₂ Emissions. <i>Metals</i> , 2021 , 11, 332	2.3	3
335	Experimental Study on Bubble Distribution and Splashing in a Peirce-Smith Copper Converter. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 440-450	2.5	2
334	Fluid-Solid Reaction Kinetics for Solids of Nonbasic Geometries: Comparison of the Sohn-Wall Method and the Shape-Factor Method. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5720-5724	3.9	4
333	Experimental Investigation and Computational Fluid Dynamics Simulation of the Magnetite Concentrate Reduction Using Methane-Oxygen Flame in a Laboratory Flash Reactor. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 1003-1015	2.5	6
332	Principles and applications of mathematical and physical modelling of metallurgical processes. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , 2020 , 129, 117-144	0.8	1
331	Energy Consumption and CO ₂ Emissions in Ironmaking and Development of a Novel Flash Technology. <i>Metals</i> , 2020 , 10, 54	2.3	10
330	Fluid-Solid Reaction Kinetics for Solids of Non-basic Geometries: Application of the Law of Additive Times in Combination with the Shape-Factor Method. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 601-610	2.5	3
329	A Model for the Interaction of Fe with MgO-14.5 wt% C Refractory Under Flash Ironmaking Conditions. <i>Minerals, Metals and Materials Series</i> , 2020 , 95-106	0.3	
328	A Kinetic Model for the Interaction of FeO with MgO-14.5 wt% C Refractory Under the Conditions of the Novel Flash Ironmaking Technology (FIT). <i>Minerals, Metals and Materials Series</i> , 2020 , 21-31	0.3	

327	A Review on the Modeling of Gaseous Reduction of Iron Oxide Pellets. <i>Steel Research International</i> , 2020 , 91, 1900270	1.6	19
326	Rapid preparation and properties investigation on TinO ₂ n-1@C core-shell nanoparticles. <i>Journal of Alloys and Compounds</i> , 2020 , 816, 152516	5.7	1
325	Interaction of magnesia-carbon refractory with ferrous oxide under flash ironmaking conditions. <i>Ceramics International</i> , 2020 , 46, 7204-7217	5.1	3
324	The structure-directing role of graphene in composites with porous FeOOH nanorods for Li ion batteries.. <i>RSC Advances</i> , 2020 , 10, 41403-41409	3.7	2
323	Novel Flash Ironmaking Technology Based on Iron Ore Concentrate and Partial Combustion of Natural Gas: A CFD Study. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 2046-2056	2.5	2
322	Scalable Preparation of Bimetallic Cu/Ni-Based Oxygen Carriers for Chemical Looping. <i>Energy & Fuels</i> , 2020 , 34, 11227-11236	4.1	5
321	Interaction of magnesia-carbon refractory with metallic iron under flash ironmaking conditions. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 529-541	6	4
320	Review of fluid-solid reaction analysisPart 2: Single porous reactant solid. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 2068-2076	2.3	8
319	Interaction of Pure Alumina Refractory with FeO@Bi ₂ O ₃ and FeO@Bi ₂ O ₃ @Ta ₂ O ₅ Slags Relevant to the Novel Flash Ironmaking Technology. <i>Steel Research International</i> , 2019 , 90, 1900104	1.6	1
318	Interaction of Iron with Alumina Refractory Under Flash Ironmaking Conditions. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 2063-2076	2.5	4
317	Interaction of ferrous oxide with alumina refractory under flash ironmaking conditions. <i>Ceramics International</i> , 2019 , 45, 15417-15428	5.1	8
316	Review of fluid-solid reaction analysisPart 1: Single nonporous reactant solid. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 2061-2067	2.3	6
315	Effect of oxygen vacancies in non-stoichiometric ceria on its photocatalytic properties. <i>Nano Structures Nano Objects</i> , 2019 , 18, 100257	5.6	15
314	Photocatalytic Properties of Plasma-Synthesized Aluminum-Doped Zinc Oxide Nanopowder. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 4377-4386	1.3	10
313	Review of fluid-solid reaction analysisPart 3: Complex fluid-solid reactions. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 2326-2332	2.3	4
312	Fluid-Solid Reaction Kinetics for Solids of Nonbasic Geometries and Determination of the Appropriate Shape Factors. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 2037-2046	2.5	6
311	Experimental Investigation and Computational Fluid Dynamics Simulation of a Novel Flash Ironmaking Process Based on Partial Combustion of Natural Gas in a Reactor. <i>Steel Research International</i> , 2019 , 90, 1900126	1.6	10
310	Constitutive Topics in Physical Chemistry of High-Temperature Nonferrous Metallurgy: A ReviewPart 2. Reduction and Refining. <i>Jom</i> , 2019 , 71, 3266-3276	2.1	2

309	Constitutive Topics in Physical Chemistry of High-Temperature Nonferrous Metallurgy: A Review: Part 1. Sulfide Roasting and Smelting. <i>Jom</i> , 2019 , 71, 3253-3265	2.1	8
308	Enhanced photocatalytic activity and photocurrent properties of plasma-synthesized indium-doped zinc oxide nanopowder. <i>Materials Today Chemistry</i> , 2019 , 11, 60-68	6.2	31
307	Plasma-Assisted Chemical Vapor Synthesis of Aluminum-Doped Zinc Oxide Nanopowder and Synthesis of AZO Films for Optoelectronic Applications. <i>Journal of Electronic Materials</i> , 2019 , 48, 2531-2542	1.9	10
306	Effect of oxygen vacancies and phases on catalytic properties of hydrogen-treated nanoceria particles. <i>Materials Research Express</i> , 2018 , 5, 035501	1.7	13
305	Flash synthesis of Magn δ phase (Ti _n O _{2n-1}) nanoparticles by thermal plasma treatment of H ₂ TiO ₃ . <i>Ceramics International</i> , 2018 , 44, 3929-3936	5.1	8
304	Nanoceria synthesis in molten KOH-NaOH mixture: Characterization and oxygen vacancy formation. <i>Ceramics International</i> , 2018 , 44, 3847-3855	5.1	12
303	Photocatalytic properties of plasma-synthesized zinc oxide and tin-doped zinc oxide (TZO) nanopowders and their applications as transparent conducting films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 14945-14959	2.1	16
302	Plasma-assisted chemical vapor synthesis of indium tin oxide (ITO) nanopowder and hydrogen-sensing property of ITO thin film. <i>Materials Research Express</i> , 2018 , 5, 065045	1.7	12
301	Interactions of Alumina-Based and Magnesia-Based Refractories with Iron Melts and Slags: A Review. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 1860-1882	2.5	16
300	The formation and growth of CeOCl crystals in a molten KCl-LiCl flux. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	14
299	Nanoceria synthesis in the KCl-LiCl salt system: Crystal formation and properties. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1863-1875	3.8	13
298	On the Initial Rate of Fluid-Solid Reactions. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 1827-1832	2.5	9
297	Oxidation and Condensation of Zinc Fume From Zn-CO ₂ -CO-H ₂ O Streams Relevant to Steelmaking Off-Gas Systems. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 908-921	2.5	3
296	Effect of mechanical activation on the hydrogen reduction kinetics of magnetite concentrate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 130, 713-720	4.1	4
295	Kinetics of Hydrogen Reduction of Magnetite Concentrate Particles in Solid State Relevant to Flash Ironmaking. <i>Steel Research International</i> , 2017 , 88, 1600133	1.6	27
294	Properties of stable nonstoichiometric nanoceria produced by thermal plasma. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	12
293	Analysis of the Reduction Rate of Hematite Concentrate Particles in the Solid State by H ₂ or CO in a Drop-Tube Reactor Through CFD Modeling. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 2677-2684	2.5	19
292	Status of the Development of Flash Ironmaking Technology. <i>Minerals, Metals and Materials Series</i> , 2017 , 15-23	0.3	6

291	A CFD Based Algorithm for Kinetics Analysis of the Reduction of Hematite Concentrate by H ₂ + CO Mixtures in a Drop Tube Reactor. <i>Minerals, Metals and Materials Series</i> , 2017 , 61-70	0.3	2
290	Flash Ironmaking from Magnetite Concentrate in a Laboratory Reactor: Experimental and CFD Work. <i>Minerals, Metals and Materials Series</i> , 2017 , 3-10	0.3	1
289	Structures, preparation and applications of titanium suboxides. <i>RSC Advances</i> , 2016 , 6, 79706-79722	3.7	67
288	Computational Fluid Dynamics Simulations of A Laboratory Flash Reactor Relevant to A Novel Ironmaking Process 2016 , 11-18		
287	Cellular growth of 2M-wollastonite in flux growth process relevant to preparation of high aspect ratio particles. <i>Advances in Applied Ceramics</i> , 2016 , 115, 137-143	2.3	
286	Greenhouse Gas Emissions and Energy Consumption of Ironmaking Processes 2016 , 427-455		3
285	Reduction Kinetics of Magnetite Concentrate Particles With Hydrogen At 1150-1600 oC Relevant To A Novel Flash Ironmaking Process 2016 , 41-49		1
284	The Role of Expansion and Fragmentation Phenomena on the Generation and Chemical Composition of Dust Particles in a Flash Converting Reactor. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 3115-3125	2.5	2
283	Effects of particle shape and size distribution on the overall fluid-solid reaction rates of particle assemblages. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 1516-1523	2.3	14
282	Computational fluid dynamics modeling of hydrogen-oxygen flame. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3284-3290	6.7	6
281	A Non-linear Temperature-Time Program for Non-isothermal Kinetic Measurements. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 1203-1208	2.5	6
280	Flash Reduction of Magnetite and Hematite Concentrates with Hydrogen in a Lab-Scale Reactor for a Novel Ironmaking Process 2016 , 3-10		1
279	Reduction Kinetics of Hematite Concentrate Particles by CO+H ₂ Mixture Relevant to a Novel Flash Ironmaking Process 2016 , 221-228		3
278	Determination of Total Iron Content in Iron Ore and DRI: Titrimetric Method Versus ICP-OES Analysis 2016 , 125-133		3
277	Reduction Kinetics of Magnetite Concentrate Particles with Hydrogen at 1150-1600 °C Relevant to a Novel Flash Ironmaking Process 2016 , 41-49		
276	Hydrogen Reduction Kinetics of Mechanically Activated Magnetite Concentrate 2016 , 51-60		
275	Computational Fluid Dynamics Simulations of a Laboratory Flash Reactor Relevant to a Novel Ironmaking Process. <i>Minerals, Metals and Materials Series</i> , 2016 , 11-18	0.3	
274	Reduction Kinetics of Magnetite Concentrate Particles with H ₂ + CO at 1200 to 1600 °C Relevant to a Novel Ironmaking Process 2016 , 35-41		

273	Hydrogen Reduction Kinetics of Mechanically Activated Magnetite Concentrate 2016 , 51-60		0
272	Flash Reduction of Magnetite and Hematite Concentrates with Hydrogen in a Lab-Scale Reactor for a Novel Ironmaking Process 2016 , 1-10		
271	Reduction Kinetics of Hematite Concentrate Particles by CO+H ₂ Mixture Relevant to A Novel Flash Ironmaking Process 2016 , 219-228		1
270	Reduction Kinetics of Magnetite Concentrate Particles with H ₂ + CO AT 1200 TO 1600 °C Relevant to a Novel Ironmaking Process 2016 , 35-41		
269	Analysis of the Hydrogen Reduction Rate of Magnetite Concentrate Particles in a Drop Tube Reactor Through CFD Modeling. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 1669-1680	2.5	29
268	Development of a Novel Flash Ironmaking Technology with Greatly Reduced Energy Consumption and CO ₂ Emissions. <i>Journal of Sustainable Metallurgy</i> , 2016 , 2, 216-227	2.7	45
267	Computational Fluid Dynamics Simulation of the Hydrogen Reduction of Magnetite Concentrate in a Laboratory Flash Reactor. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 3489-3500	2.5	32
266	Hydrogen Reduction Kinetics of Hematite Concentrate Particles Relevant to a Novel Flash Ironmaking Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015 , 46, 1133-1145	2.5	79
265	Computational fluid dynamic modeling of the flame spray pyrolysis process for silica nanopowder synthesis. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	4
264	Effect of Water Vapor on Sulfur Distribution Between Liquid Fe and MgO-Saturated Slag Relevant to a Flash Ironmaking Technology. <i>Steel Research International</i> , 2015 , 86, 753-759	1.6	18
263	Formation and Evaluation of Protective Layer over Magnesium Melt Under CO ₂ /Air Mixtures. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015 , 46, 226-234	2.5	3
262	Analysis of Slag Chemistry by FTIR-RAS and Raman Spectroscopy: Effect of Water Vapor Content in H ₂ ?H ₂ O?CO?CO ₂ Mixtures Relevant to a Novel Green Ironmaking Technology. <i>Steel Research International</i> , 2015 , 86, 740-752	1.6	25
261	Effect of Water Vapor on O ₂ Content in Ironmaking Slag. <i>Journal of Iron and Steel Research International</i> , 2015 , 22, 909-915	1.2	1
260	Effect of water vapour on distribution of phosphorus between liquid iron and MgO saturated slag relevant to flash ironmaking technology. <i>Ironmaking and Steelmaking</i> , 2015 , 42, 346-350	1.3	1
259	Reduction of Magnetite Concentrate Particles by H ₂ +CO at 1673 K. <i>ISIJ International</i> , 2015 , 55, 706-708	1.7	14
258	Kinetics of the Reduction of Hematite Concentrate Particles by Carbon Monoxide Relevant to a Novel Flash Ironmaking Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015 , 46, 1716-1728	2.5	59
257	Slag Structures and Properties by Spectroscopic Analysis: Effect of Water Vapor Relevant to a Novel Flash Ironmaking Technology 2014 , 11-18		2
256	Effect of Water Vapor on the Activities of FeO And MgO in Slags Relevant to a Novel Flash Ironmaking Technology 2014 , 81-90		1

255	Determination of Energy Requirements for Ironmaking Processes: It's not that Straightforward 2014 , 47-56		1
254	Oxidation Kinetics of Cu ₂ O in Oxygen Carriers for Chemical Looping with Oxygen Uncoupling. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2976-2986	3.9	38
253	Compositional Fragmentation Model for the Oxidation of Sulfide Particles in a Flash Reactor. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 726-742	2.5	5
252	Formation and Evaluation of Protective Layer Over Magnesium Melt Under SF ₆ /Air Atmospheres. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 1370-1379	2.5	12
251	Flux growth of 2M-wollastonite crystals for the preparation of high aspect ratio particles. <i>Ceramics International</i> , 2014 , 40, 5973-5982	5.1	11
250	Application of additive-reaction-times law to the mixed-control kinetics of oxygen leaching of chalcopyrite. <i>Hydrometallurgy</i> , 2014 , 146, 164-168	4	6
249	A Computational Fluid Dynamic Model for a Novel Flash Ironmaking Process 2014 , 385-392		
248	Oxidation of Flash Reduced Iron Particles in Various Gas Mixtures Under the Conditions of a Novel Flash Ironmaking Process 2014 , 507-517		
247	A Computational Fluid Dynamic Model for a Novel Flashironmaking Process 2014 , 385-392		
246	Retraction of Gaseous Pre-reduction for the Magnetic Beneficiation of Ferruginous Low-grade Mn Ore [ISIJ Int. 52(5): 759-763 (2012)]. <i>ISIJ International</i> , 2014 , 54, 2939-2939	1.7	
245	Re-Oxidation Kinetics of Flash Reduced Iron Particles in O ₂ /N ₂ Gas Mixtures Relevant to a Novel Flash Ironmaking Process. <i>ISIJ International</i> , 2014 , 54, 1235-1243	1.7	9
244	From Sulfide Flash Smelting to a Novel Flash Ironmaking Technology 2014 , 69-76		2
243	Process Modeling in Non-Ferrous Metallurgy 2014 , 701-838		5
242	Effect of water vapour content in H ₂ /H ₂ O/O ₂ mixtures on activity of iron oxide in slags relevant to novel flash ironmaking technology. <i>Ironmaking and Steelmaking</i> , 2014 , 41, 665-675	1.3	21
241	Effect of water vapour content in H ₂ /H ₂ O/O ₂ mixtures on MgO solubility in slag under conditions of novel flash ironmaking technology. <i>Ironmaking and Steelmaking</i> , 2014 , 41, 575-582	1.3	17
240	Effect of Water Vapor Content in H ₂ /H ₂ O/O ₂ Mixtures on the Equilibrium Distribution of Manganese between CaO/MgO/sat/SiO ₂ /Al ₂ O ₃ /FeO/B ₂ O ₅ Slag and Molten Iron. <i>Steel Research International</i> , 2014 , 85, 875-884	1.6	27
239	TiO ₂ Nanotubes Filled with NiFe ₂ O ₄ Quantum Dots or Ni-Fe Nanoalloy: Synthesis and Applications 2014 , 31-38		
238	On the Rate Expressions for Reversible Gas/Solid Reactions. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 1600-1602	2.5	11

237	Methods for Calculating Energy Requirements for Processes in Which a Reactant Is Also a Fuel: Need for Standardization. <i>Jom</i> , 2014 , 66, 1557-1564	2.1	20
236	Oxidation of Flash Reduced Iron Particles in Various Gas Mixtures Under the Conditions of a Novel Flash Ironmaking Process 2014 , 509-517		
235	From Sulfide Flash Smelting to a Novel Flash Ironmaking Technology 2014 , 69-76		
234	Re-oxidation Kinetics of Flash-Reduced Iron Particles in H ₂ -H ₂ O(g) Atmosphere Relevant to a Novel Flash Ironmaking Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2013 , 44, 1520-1530	2.5	10
233	Hydrogen Reduction Kinetics of Magnetite Concentrate Particles Relevant to a Novel Flash Ironmaking Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2013 , 44, 133-145	2.5	77
232	Application of Spectroscopic Analysis Techniques to the Determination of Slag Structures and Properties: Effect of Water Vapor on Slag Chemistry Relevant to a Novel Flash Ironmaking Technology. <i>Jom</i> , 2013 , 65, 1559-1565	2.1	23
231	Flowsheet development, process simulation and economic feasibility analysis for novel suspension ironmaking technology based on natural gas: Part 3 [Economic feasibility analysis. <i>Ironmaking and Steelmaking</i> , 2013 , 40, 44-49	1.3	32
230	Flowsheet development, process simulation and economic feasibility analysis for novel suspension ironmaking technology based on natural gas: Part 2 [Flowsheet and simulation for ironmaking combined with steam methane reforming. <i>Ironmaking and Steelmaking</i> , 2013 , 40, 32-43	1.3	14
229	Sulfur Distribution between Liquid Iron and Magnesia-Saturated Slag in H ₂ /H ₂ O Atmosphere Relevant to a Novel Green Ironmaking Technology. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3639-3645	3.9	19
228	Rate Analysis of Chemical-Looping with Oxygen Uncoupling (CLOU) for Solid Fuels. <i>Energy & Fuels</i> , 2012 , 26, 4395-4404	4.1	50
227	Phosphorus Distribution between Liquid Iron and Magnesia-Saturated Slag in H ₂ /H ₂ O Atmosphere Relevant to a Novel Ironmaking Technology. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 7028-7034	3.9	21
226	Upgrading of Low-Grade Manganese Ore by Selective Reduction of Iron Oxide and Magnetic Separation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2012 , 43, 1465-1475	2.5	44
225	Retraction: Gaseous Pre-reduction for the Magnetic Beneficiation of Ferruginous Low-grade Mn Ore. <i>ISIJ International</i> , 2012 , 52, 759-763	1.7	7
224	Effects of Reducing Gas on Swelling and Iron Whisker Formation during the Reduction of Iron Oxide Compact. <i>Steel Research International</i> , 2012 , 83, 903-909	1.6	22
223	Three-Dimensional CFD-Population Balance Simulation of a Chemical Vapor Synthesis Reactor for Aluminum Nanopowder: Nucleation, Surface Growth, and Coagulation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2012 , 43, 413-423	2.5	4
222	The Penetration Behavior of an Annular Gas-Solid Jet Impinging on a Liquid Bath: The Effects of the Density and Size of Solid Particles. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2012 , 43, 787-813	2.5	6
221	Flowsheet development, process simulation and economic feasibility analysis for novel suspension ironmaking technology based on natural gas: Part 1 [Flowsheet and simulation for ironmaking with reformerless natural gas. <i>Ironmaking and Steelmaking</i> , 2012 , 39, 398-408	1.3	46
220	Kinetics of pre-reduction of manganese ore by CO. <i>Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy</i> , 2012 , 121, 109-116		9

219	Intrinsic Hydrogen Reduction Kinetics of Magnetite Concentrate Particles Relevant to a Novel Green Ironmaking Technology 2011 , 1-10		7
218	Kinetics of Copper Oxidation in the Air Reactor of a Chemical Looping Combustion System using the Law of Additive Reaction Times. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 13330-13339	3.9	23
217	Effects of Firing and Reduction Conditions on Swelling and Iron Whisker Formation during the Reduction of Iron Oxide Compact. <i>ISIJ International</i> , 2011 , 51, 906-912	1.7	30
216	Nitric Acid Leaching of Base Metals from Waste PDP Electrode Scrap and Recovery of Ruthenium Content from Leached Residues. <i>Materials Transactions</i> , 2011 , 52, 1063-1069	1.3	7
215	Intrinsic Kinetics of Chlorination of WO ₃ Particles With Cl ₂ Gas Between 973 K and 1223 K (700 °C and 950 °C). <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2011 , 42, 316-323	2.5	10
214	Process Simulation and Economic Feasibility Analysis for a Hydrogen-Based Novel Suspension Ironmaking Technology. <i>Steel Research International</i> , 2011 , 82, 951-963	1.6	41
213	Reaction Mechanisms in the Li ₃ AlH ₆ /LiBH ₄ and Al/LiBH ₄ Systems for Reversible Hydrogen Storage. Part 2: Solid-State NMR Studies. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6048-6056	3.8	35
212	Reaction Mechanisms in the Li ₃ AlH ₆ /LiBH ₄ and Al/LiBH ₄ Systems for Reversible Hydrogen Storage. Part 1: H Capacity and Role of Al. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6040-6047	3.8	19
211	Kinetics of dehydrogenation of the Mg-Ti hydrogen storage system. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8344-8350	6.7	29
210	Penetration behaviour of an annular gas-solid jet impinging on a liquid bath: effect of the annular cross-sectional area. <i>Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy</i> , 2011 , 120, 21-31		3
209	Effect of CaO and SiO ₂ on swelling and iron whisker formation during reduction of iron oxide compact. <i>Ironmaking and Steelmaking</i> , 2011 , 38, 447-452	1.3	30
208	Computational fluid dynamics modelling of nanopowder production by chemical vapour synthesis process. <i>Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy</i> , 2011 , 120, 224-228		1
207	Synthesis of Ytria-Stabilized Zirconia Nanopowders by a Thermal Plasma Process. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3130-3135	3.8	11
206	Development of green suspension ironmaking technology based on hydrogen reduction of iron oxide concentrate: rate measurements. <i>Ironmaking and Steelmaking</i> , 2010 , 37, 81-88	1.3	77
205	Hydrogenation of nanocrystalline Mg at room temperature in the presence of TiH ₂ . <i>Journal of the American Chemical Society</i> , 2010 , 132, 6616-7	16.4	110
204	The Penetration Behavior of an Annular Gas-Solid Jet Impinging on a Liquid Bath: Comparison with a Conventional Circular Jet. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2010 , 41, 51-62	2.5	10
203	Application of the Law of Additive Reaction Times to Fluid-Solid Reactions in Porous Pellets with Changing Effective Diffusivity. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2010 , 41, 1261-1267	2.5	10
202	Plasma synthesis of nanosized W-Co composite powder followed by carburization with a methane-hydrogen mixture. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 2851-2857	2.3	4

201	Chemical vapor synthesis and characterization of aluminum nanopowder. <i>Journal of Power Sources</i> , 2010 , 195, 1463-1471	8.9	10
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