

Hong Yong Sohn

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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	Synthesis, sintering, and mechanical properties of nanocrystalline cemented tungsten carbide [A review]. <i>International Journal of Refractory Metals and Hard Materials</i> , 2009 , 27, 288-299	4.1	499
343	A structural model for gas-solid reactions with a moving boundary [II]. <i>Chemical Engineering Science</i> , 1972 , 27, 763-778	4.4	224
342	Hydrogen storage properties of nanosized MgH ₂ -0.1TiH ₂ prepared by ultrahigh-energy-high-pressure milling. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15843-52	16.4	219
341	The effect of particle size distribution on packing density. <i>Canadian Journal of Chemical Engineering</i> , 1968 , 46, 162-167	2.3	190
340	Grain growth during the early stage of sintering of nanosized WC-Co powder. <i>International Journal of Refractory Metals and Hard Materials</i> , 2008 , 26, 232-241	4.1	134
339	A structural model for gas-solid reactions with a moving boundary [V] an experimental study of the reduction of porous nickel-oxide pellets with hydrogen. <i>Chemical Engineering Science</i> , 1973 , 28, 1975-1989	4.1	124
338	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
337	The law of additive reaction times in fluid-solid reactions. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1978 , 9, 89-96		98
336	An experimental study of the sintering of nanocrystalline WC-Co powders. <i>International Journal of Refractory Metals and Hard Materials</i> , 2005 , 23, 249-257	4.1	84
335	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
334	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
333	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
332	Hydrogen storage properties of the Mg-Ti system prepared by high-energy-high-pressure reactive milling. <i>Journal of Power Sources</i> , 2008 , 180, 491-497	8.9	74
331	The chemical vapor synthesis of inorganic nanopowders. <i>Jom</i> , 2007 , 59, 44-49	2.1	68
330	Structures, preparation and applications of titanium suboxides. <i>RSC Advances</i> , 2016 , 6, 79706-79722	3.7	67
329	Effects of CaO, Al ₂ O ₃ , and MgO additions on the copper solubility, ferric/ferrous ratio, and minor-element behavior of iron-silicate slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1998 , 29, 583-590	2.5	64
328	A process for extracting precious metals from spent printed circuit boards and automobile catalysts. <i>Jom</i> , 2004 , 56, 55-58	2.1	60

327	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
326	Chemical vapor synthesis (CVS) of tungsten nanopowder in a thermal plasma reactor. <i>International Journal of Refractory Metals and Hard Materials</i> , 2009 , 27, 149-154	4.1	56
325	R&D in the metallurgical industry toward the 21st century. <i>Jom</i> , 1997 , 49, 33-37	2.1	55
324	Potential of Binary Lithium Magnesium Nitride for Hydrogen Storage Applications. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12129-12134	3.8	54
323	Nonisothermal Determination of the Intrinsic Kinetics of Oil Generation from Oil Shale. <i>Industrial & Engineering Chemistry Process Design and Development</i> , 1980 , 19, 420-426		54
322	A structural model for gas-solid reactions with a moving boundary. Langmuir-Hinshelwood kinetics. <i>Chemical Engineering Science</i> , 1973 , 28, 1169-1177	4.4	54
321	The effect of intragrain diffusion on the reaction between a porous solid and a gas. <i>Chemical Engineering Science</i> , 1974 , 29, 630-634	4.4	54
320	The reduction of stannic oxide with carbon. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1979 , 10, 109-115		52
319	Rate Analysis of Chemical-Looping with Oxygen Uncoupling (CLOU) for Solid Fuels. <i>Energy & Fuels</i> , 2012 , 26, 4395-4404	4.1	50
318	A new Li-Al-N-H system for reversible hydrogen storage. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14235-40	3.9	50
317	Mathematical modeling of sulfide flash smelting process: Part I. Model development and verification with laboratory and pilot plant measurements for chalcopyrite concentrate smelting. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1990 , 21, 945-958		47
316	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
315	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
314	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
313	A dehydrogenation mechanism of metal hydrides based on interactions between H _{delta} ⁺ and H _{delta} ⁻ . <i>Inorganic Chemistry</i> , 2006 , 45, 8749-54	5.1	44
312	Reactions between solids through gaseous intermediates—reactions controlled by chemical kinetics. <i>Chemical Engineering Science</i> , 1973 , 28, 1789-1801	4.4	44
311	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
310	Effect of Milling Parameters on the Dehydrogenation Properties of the Mg-H System. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19344-19350	3.8	41

309	Effect of WC particle size on Co distribution in liquid-phase-sintered functionally graded WC/Co composite. <i>International Journal of Refractory Metals and Hard Materials</i> , 2008 , 26, 98-105	4.1	41
308	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
307	Intrinsic kinetics of the oxidation of chalcopyrite particles under isothermal and nonisothermal conditions. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1986 , 17, 51-60		37
306	Sodium aluminate leaching and desilication in lime-soda sinter process for alumina from coal wastes. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1985 , 16, 707-713		37
305	The selective chlorination of iron from Ilmenite ore by CO-Cl ₂ mixtures: Part I. intrinsic kinetics. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1990 , 21, 321-330		36
304	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
303	A new process for converting SO ₂ to sulfur without generating secondary pollutants through reactions involving CaS and CaSO ₄ . <i>Environmental Science & Technology</i> , 2002 , 36, 3020-4	10.3	35
302	Reduction of molybdenite with carbon in the presence of lime. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1997 , 28, 265-274	2.5	34
301	The Effect of Bulk Flow Due to Volume Change in the Gas Phase on Gas-Solid Reactions: Initially Nonporous Solids. <i>Industrial & Engineering Chemistry Process Design and Development</i> , 1980 , 19, 237-242		34
300	The intrinsic thermal decomposition kinetics of SrCO ₃ by a nonisothermal technique. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1997 , 28, 1063-1068	2.5	33
299	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
298	Mathematical modeling of minor-element behavior in flash smelting of copper concentrates and flash converting of copper mattes. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1989 , 20, 39-51		32
297	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
296	The sintering behavior of nanosized tungsten powder prepared by a plasma process. <i>International Journal of Refractory Metals and Hard Materials</i> , 2009 , 27, 701-704	4.1	31
295	Plasma Synthesis of Tungsten Carbide Nanopowder from Ammonium Paratungstate. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 655-660	3.8	31
294	Tungsten carbide nanopowder by plasma-assisted chemical vapor synthesis from WCl ₆ /CH ₄ /H ₂ mixtures. <i>Journal of Materials Science</i> , 2008 , 43, 5185-5192	4.3	31
293	Kinetics of carbothermic reduction of magnesia and zinc oxide by thermogravimetric analysis technique. <i>Scandinavian Journal of Metallurgy</i> , 2003 , 32, 171-176		31
292	Mathematical modeling of sulfide flash smelting process: Part III. Volatilization of minor elements. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1991 , 22, 791-799	2.5	31

291	Sintering kinetics and alumina yield in lime-soda sinter process for alumina from coal wastes. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1985 , 16, 385-395		31
290	Simultaneous fluid-solid reactions in porous solids: Reactions between one solid and two fluid reactants. <i>Chemical Engineering Science</i> , 1980 , 35, 1625-1635	4.4	31
289	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
288	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
287	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
286	Kinetics of dehydrogenation of the Mg-Ti hydrogen storage system. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8344-8350	6.7	29
285	Plasma synthesis of tungsten carbide and cobalt nanocomposite powder. <i>Journal of Alloys and Compounds</i> , 2009 , 481, 274-277	5.7	29
284	Mathematical modeling of sulfide flash smelting process: Part II. Quantitative analysis of radiative heat transfer. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1990 , 21, 959-966		29
283	Effect of bulk flow due to volume change in the gas phase on gas-solid reactions: initially porous solids. <i>Industrial & Engineering Chemistry Process Design and Development</i> , 1982 , 21, 658-663		29
282	The effect of reaction order in non-catalytic gas-solid reactions. <i>Canadian Journal of Chemical Engineering</i> , 1972 , 50, 674-676	2.3	29
281	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
280	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
279	Effect of Water Vapor Content in H ₂ /H ₂ O/CO/CO ₂ Mixtures on the Equilibrium Distribution of Manganese between CaO-MgO-sat-SiO ₂ -Al ₂ O ₃ -FeO-Fe ₂ O ₅ Slag and Molten Iron. <i>Steel Research International</i> , 2014 , 85, 875-884	1.6	27
278	A Novel Cyclic Reaction System Involving CaS and CaSO ₄ for Converting Sulfur Dioxide to Elemental Sulfur without Generating Secondary Pollutants. 3. Kinetics of the Hydrogen Reduction of the Calcium Sulfate Powder to Calcium Sulfide. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 3092-3096	3.9	27
277	Dip coating of alumina films by the sol-gel method. <i>Journal of Materials Research</i> , 1993 , 8, 3151-3157	2.5	27
276	Intrinsic Kinetics of the Reaction between Oxygen and Carbonaceous Residue in Retorted Oil Shale. <i>Industrial & Engineering Chemistry Process Design and Development</i> , 1980 , 19, 550-555		27
275	Reactions of Nonporous Solids 1976 , 65-107		26
274	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

273	Chemical vapor synthesis of Mg ₃ Si nanopowder mixture as a hydrogen storage material. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7700-7706	6.7	25
272	Mathematical modeling of liquid phase migration in solid-liquid mixtures: Application to the sintering of functionally graded WC-Co composites. <i>Acta Materialia</i> , 2007 , 55, 3111-3119	8.4	25
271	A Novel Cyclic Reaction System Involving CaS and CaSO ₄ for Converting Sulfur Dioxide to Elemental Sulfur without Generating Secondary Pollutants. 1. Determination of Process Feasibility. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 3081-3086	3.9	25
270	The selective carbochlorination of iron from titaniferous magnetite ore in a fluidized bed. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1990 , 21, 341-347		25
269	Calcined calcium magnesium acetate as a superior SO ₂ sorbent: I. Thermal decomposition. <i>AICHE Journal</i> , 2002 , 48, 2971-2977	3.6	24
268	The mixed-control kinetics of ferric chloride leaching of galena. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1989 , 20, 107-110		24
267	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
266	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
265	Effect of milling intensity on the formation of LiMgN from the dehydrogenation of LiNH ₂ -MgH ₂ (1:1) mixture. <i>Journal of Power Sources</i> , 2010 , 195, 1992-1997	8.9	23
264	Potential and Reaction Mechanism of LiMgAlNH ₂ System for Reversible Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16686-16692	3.8	23
263	The influence of chemical equilibrium on fluid-solid reaction rates and the falsification of activation energy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2004 , 35, 121-131	2.5	23
262	Developments in physical chemistry and basic principles. <i>Jom</i> , 1993 , 45, 40-44	2.1	23
261	Mixed-control kinetics of oxygen leaching of chalcopyrite and pyrite from porous primary ore fragments. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1987 , 18, 497-503		23
260	Kinetics of the reaction between hydrogen sulfide and lime particles. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1985 , 16, 163-168		23
259	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
258	Intrinsic kinetics of the hydrogen reduction of Cu ₂ S. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1985 , 16, 831-839		22
257	Effect of water vapour content in H ₂ -H ₂ O-CO-CO 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
256	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

255	Mathematical and experimental investigation of the self-propagating high-temperature synthesis (SHS) of TiAl ₃ and Ni ₃ Al intermetallic compounds. <i>Journal of Materials Science</i> , 1996 , 31, 3281-3288	4.3	21
254	Preparation of ultrafine tungsten carbide powder by CVD method from WCl ₆ -H ₂ -H ₂ mixtures. <i>Journal of Materials Research</i> , 1993 , 8, 2702-2708	2.5	21
253	Successive gas-solid reaction model for the hydrogen reduction of cuprous sulfide in the presence of lime. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1985 , 16, 645-661		21
252	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
251	Mathematical modeling of fluidized-bed chlorination of rutile. <i>AIChE Journal</i> , 1996 , 42, 3102-3112	3.6	20
250	Simplified treatment of the rates of gas-solid reactions involving multicomponent diffusion. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 42-48	3.9	20
249	The coming of age of process engineering in extractive metallurgy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1991 , 22, 737-754	2.5	20
248	Model for ferric sulfate leaching of copper ores containing a variety of sulfide minerals: Part I. Modeling uniform size ore fragments. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1992 , 23, 537-548		20
247	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
246	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
245	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
244	Mechanisms of the Formation of Silica Particles from Precursors with Different Volatilities by Flame Spray Pyrolysis. <i>Aerosol Science and Technology</i> , 2009 , 43, 911-920	3.4	19
243	Ti and TiAl powders by the flash reduction of chloride vapors. <i>Jom</i> , 1998 , 50, 50-51	2.1	19
242	Intrinsic Kinetics and Mechanism of Rutile Chlorination by CO + Cl ₂ Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 3800-3805	3.9	19
241	The ignition and combustion of chalcopyrite concentrate particles under suspension-smelting conditions. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1993 , 24, 975-985		19
240	The selective chlorination of iron from Ilmenite ore by CO-Cl ₂ mixtures: Part II. mathematical modeling of the fluidized-bed process. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1990 , 21, 331-340		19
239	The law of additive reaction times applied to the hydrogen reduction of porous nickel-oxide pellets. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1984 , 15, 403-406		19
238	A Review on the Modeling of Gaseous Reduction of Iron Oxide Pellets. <i>Steel Research International</i> , 2020 , 91, 1900270	1.6	19

237	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
236	The Kinetics of Oxidation of Molybdenite Concentrate by Water Vapor. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2007 , 38, 689-693	2.5	18
235	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
234	Kinetics of the Hydrogen Reduction of Silica Incorporating the Effect of Gas-Volume Change upon Reaction. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 882-888	3.8	17
233	Experimental investigation and three-dimensional computational fluid-dynamics modeling of the flash-converting furnace shaft: Part II. Formulation of three-dimensional computational fluid-dynamics model incorporating the particle-cloud description. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2001 , 32, 869-886	2.5	17
232	Microstructural Changes in Several Titaniferous Materials during Chlorination Reaction. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 954-962	3.9	17
231	Approximate closed-form solutions to various model equations for fluid-solid reactions. <i>AIChE Journal</i> , 1986 , 32, 1574-1578	3.6	17
230	The trajectories and distribution of particles in a turbulent axisymmetric gas jet injected into a flash furnace shaft. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1988 , 19, 871-884		17
229	Gas-Solid Reactions of Industrial Importance 1976 , 338-391		17
228	Measurement and Correlation of Drop-Size Distribution in Liquid. Liquid Emulsions Formed by High-Velocity Bottom Gas Injection.. <i>ISIJ International</i> , 1995 , 35, 234-241	1.7	17
227	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
226	Interactions of Alumina-Based and Magnesita-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
225	Synthesis of ultrafine particles of intermetallic compounds by the vapor-phase magnesium reduction of chloride mixtures: Part I. Titanium aluminides. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1998 , 29, 457-464	2.5	16
224	Kinetics of the sulfidation of chalcopyrite with gaseous sulfur. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2003 , 34, 61-68	2.5	16
223	The carbothermal reduction of nickel sulfide in the presence of lime. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1983 , 14, 605-615		16
222	Effect of oxygen vacancies in non-stoichiometric ceria on its photocatalytic properties. <i>Nano Structures Nano Objects</i> , 2019 , 18, 100257	5.6	15
221	Effect of CaSO ₄ Pelletization Conditions on a Novel Process for Converting SO ₂ to Elemental Sulfur by Reaction Cycles involving CaSO ₄ /CaS [Part I. CaSO ₄ Pellet Strength and Reducibility by Hydrogen. <i>Chemical Engineering and Technology</i> , 2007 , 30, 628-634	2	15
220	Kinetics of As, Sb, Bi and Pb volatilization from industrial copper matte during Ar+O ₂ bubbling. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2004 , 35, 651-661	2.5	15

219	Effect of nonuniform distribution of solid reactant on fluid-solid reactions. 1. Initially nonporous solids. <i>Industrial & Engineering Chemistry Process Design and Development</i> , 1986 , 25, 386-394		15
218	Effect of nonuniform distribution of solid reactant on fluid-solid reactions. 2. Porous solids. <i>Industrial & Engineering Chemistry Research</i> , 1987 , 26, 246-254	3.9	15
217	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
216	Reduction of Magnetite Concentrate Particles by H ₂ +CO at 1673 K. <i>ISIJ International</i> , 2015 , 55, 706-708	1.7	14
215	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
214	Ca-Mg acetate as dry SO ₂ sorbent: III. Sulfation of MgO+CaO. <i>AIChE Journal</i> , 2002 , 48, 2985-2991	3.6	14
213	Intrinsic kinetics of the reaction between zinc sulfide and water vapor. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1987 , 18, 451-457		14
212	Distribution of Gold and Silver between Copper and Matte. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1985 , 16, 53-59		14
211	Kinetics and Sulfur fixation in the reduction or oxidation of metal Sulfides mixed with lime. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1983 , 14, 175-180		14
210	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
209	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
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