List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5607304/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Synthesis, sintering, and mechanical properties of nanocrystalline cemented tungsten carbide – A review. International Journal of Refractory Metals and Hard Materials, 2009, 27, 288-299.	1.7	586
2	A structural model for gas-solid reactions with a moving boundary—III. Chemical Engineering Science, 1972, 27, 763-778.	1.9	265
3	Hydrogen Storage Properties of Nanosized MgH <sub>2</sub> â^'0.1TiH <sub>2</sub> Prepared by Ultrahigh-Energyâr'High-Pressure Milling. Journal of the American Chemical Society, 2009, 131, 15843-15852.	6.6	245
4	The effect of particle size distribution on packing density. Canadian Journal of Chemical Engineering, 1968, 46, 162-167.	0.9	239
5	Grain growth during the early stage of sintering of nanosized WC–Co powder. International Journal of Refractory Metals and Hard Materials, 2008, 26, 232-241.	1.7	158
6	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. Chemical Engineering Science, 1973, 28, 1975-1989.	1.9	147
7	Hydrogenation of Nanocrystalline Mg at Room Temperature in the Presence of TiH <sub>2</sub> . Journal of the American Chemical Society, 2010, 132, 6616-6617.	6.6	121
8	The law of additive reaction times in fluid-solid reactions. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1978, 9, 89-96.	0.5	112
9	Structures, preparation and applications of titanium suboxides. RSC Advances, 2016, 6, 79706-79722.	1.7	102
10	Hydrogen Reduction Kinetics of Hematite Concentrate Particles Relevant to a Novel Flash Ironmaking Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1133-1145.	1.0	100
11	An experimental study of the sintering of nanocrystalline WC–Co powders. International Journal of Refractory Metals and Hard Materials, 2005, 23, 249-257.	1.7	98
12	Hydrogen Reduction Kinetics of Magnetite Concentrate Particles Relevant to a Novel Flash Ironmaking Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 133-145.	1.0	87
13	Development of green suspension ironmaking technology based on hydrogen reduction of iron oxide concentrate: rate measurements. Ironmaking and Steelmaking, 2010, 37, 81-88.	1.1	82
14	Hydrogen storage properties of the Mg–Ti–H system prepared by high-energy–high-pressure reactive milling. Journal of Power Sources, 2008, 180, 491-497.	4.0	78
15	Effects of CaO, Al2O3, and MgO additions on the copper solubility, ferric/ferrous ratio, and minor-element behavior of iron-silicate slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1998, 29, 583-590.	1.0	73
16	A process for extracting precious metals from spent printed circuit boards and automobile catalysts. Jom, 2004, 56, 55-58.	0.9	73
17	Nonisothermal Determination of the Intrinsic Kinetics of Oil Generation from Oil Shale. Industrial & Engineering Chemistry Process Design and Development, 1980, 19, 420-426.	0.6	72
18	The chemical vapor synthesis of inorganic nanopowders. Jom, 2007, 59, 44-49.	0.9	72

#	Article	IF	CITATIONS
19	Kinetics of the Reduction of Hematite Concentrate Particles by Carbon Monoxide Relevant to a Novel Flash Ironmaking Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1716-1728.	1.0	72
20	Chemical vapor synthesis (CVS) of tungsten nanopowder in a thermal plasma reactor. International Journal of Refractory Metals and Hard Materials, 2009, 27, 149-154.	1.7	67
21	The effect of intragrain diffusion on the reaction between a porous solid and a gas. Chemical Engineering Science, 1974, 29, 630-634.	1.9	64
22	A structural model for gas—solid reactions with a moving boundary—IV. Langmuir—Hinshelwood kinetics. Chemical Engineering Science, 1973, 28, 1169-1177.	1.9	62
23	Potential of Binary Lithium Magnesium Nitride for Hydrogen Storage Applications. Journal of Physical Chemistry C, 2007, 111, 12129-12134.	1.5	59
24	The reduction of stannic oxide with carbon. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1979, 10, 109-115.	0.5	57
25	A New Liâ^'Alâ^'Nâ^'H System for Reversible Hydrogen Storage. Journal of Physical Chemistry B, 2006, 110, 14236-14239.	1.2	57
26	R&D in the metallurgical industry toward the 21st century. Jom, 1997, 49, 33-37.	0.9	56
27	Rate Analysis of Chemical-Looping with Oxygen Uncoupling (CLOU) for Solid Fuels. Energy & Fuels, 2012, 26, 4395-4404.	2.5	53
28	Development of a Novel Flash Ironmaking Technology with Greatly Reduced Energy Consumption and CO2 Emissions. Journal of Sustainable Metallurgy, 2016, 2, 216-227.	1.1	53
29	Reactions between solids through gaseous intermediates—I reactions controlled by chemical kinetics. Chemical Engineering Science, 1973, 28, 1789-1801.	1.9	52
30	Mathematical modeling of sulfide flash smelting process: Part I. Model development and verification with laboratory and pilot plant measurements for chalcopyrite concentrate smelting. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1990, 21, 945-958.	0.5	51
31	Process Simulation and Economic Feasibility Analysis for a Hydrogenâ€Based Novel Suspension Ironmaking Technology. Steel Research International, 2011, 82, 951-963.	1.0	50
32	Upgrading of Low-Grade Manganese Ore by Selective Reduction of Iron Oxide and Magnetic Separation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 1465-1475.	1.0	50
33	Effect of WC particle size on Co distribution in liquid-phase-sintered functionally graded WC–Co composite. International Journal of Refractory Metals and Hard Materials, 2008, 26, 98-105.	1.7	49
34	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. Ironmaking and Steelmaking, 2012, 39, 398-408.	1.1	49
35	A Dehydrogenation Mechanism of Metal Hydrides Based on Interactions between Hδ+and H Inorganic Chemistry, 2006, 45, 8749-8754.	1.9	48
36	Effect of CaO and SiO <sub>2</sub> on swelling and iron whisker formation during reduction of iron oxide compact. Ironmaking and Steelmaking, 2011, 38, 447-452.	1.1	46

#	Article	IF	CITATIONS
37	A Review on the Modeling of Gaseous Reduction of Iron Oxide Pellets. Steel Research International, 2020, 91, 1900270.	1.0	46
38	Enhanced photocatalytic activity and photocurrent properties of plasma-synthesized indium-doped zinc oxide nanopowder. Materials Today Chemistry, 2019, 11, 60-68.	1.7	44
39	A New Process for Converting SO2 to Sulfur without Generating Secondary Pollutants through Reactions Involving CaS and CaSO4. Environmental Science & Technology, 2002, 36, 3020-3024.	4.6	43
40	Oxidation Kinetics of Cu <sub>2</sub> O in Oxygen Carriers for Chemical Looping with Oxygen Uncoupling. Industrial & Engineering Chemistry Research, 2014, 53, 2976-2986.	1.8	43
41	Effect of Milling Parameters on the Dehydrogenation Properties of the Mgâ^'Tiâ^'H System. Journal of Physical Chemistry C, 2009, 113, 19344-19350.	1.5	42
42	Analysis of Slag Chemistry by FTIRâ€RAS and Raman Spectroscopy: Effect of Water Vapor Content in H <sub>2</sub> ïŁįH <sub>2</sub> OïŁįCOïŁįCO <sub>2</sub> Mixtures Relevant to a Novel Green Ironmaking Technology. Steel Research International, 2015, 86, 740-752.	1.0	42
43	The sintering behavior of nanosized tungsten powder prepared by a plasma process. International Journal of Refractory Metals and Hard Materials, 2009, 27, 701-704.	1.7	41
44	Effects of Firing and Reduction Conditions on Swelling and Iron Whisker Formation during the Reduction of Iron Oxide Compact. ISIJ International, 2011, 51, 906-912.	0.6	41
45	Intrinsic kinetics of the oxidation of chalcopyrite particles under isothermal and nonisothermal conditions. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1986, 17, 51-60.	0.5	40
46	The selective chlorination of iron from Ilmenite ore by CO-Cl2 mixtures: Part I. intrinsic kinetics. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1990, 21, 321-330.	0.5	40
47	The intrinsic thermal decomposition kinetics of SrCO3 by a nonisothermal technique. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1997, 28, 1063-1068.	1.0	40
48	Mathematical modeling of minor-element behavior in flash smelting of copper concentrates and flash converting of copper mattes. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1989, 20, 39-51.	0.5	39
49	The Effect of Bulk Flow Due to Volume Change in the Gas Phase on Gas-Solid Reactions: Initially Nonporous Solids. Industrial & Engineering Chemistry Process Design and Development, 1980, 19, 237-242.	0.6	37
50	Sodium aluminate leaching and desilication in lime-soda sinter process for alumina from coal wastes. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1985, 16, 707-713.	0.5	37
51	Reduction of molybdenite with carbon in the presence of lime. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1997, 28, 265-274.	1.0	37
52	Simultaneous fluid-solid reactions in porous solids: Reactions between one solid and two fluid reactants. Chemical Engineering Science, 1980, 35, 1625-1635.	1.9	36
53	Mathematical modeling of liquid phase migration in solid–liquid mixtures: Application to the sintering of functionally graded WC–Co composites. Acta Materialia, 2007, 55, 3111-3119.	3.8	36
54	Plasma synthesis of tungsten carbide and cobalt nanocomposite powder. Journal of Alloys and Compounds, 2009, 481, 274-277.	2.8	36

#	Article	IF	CITATIONS
55	Reaction Mechanisms in the Li <sub>3</sub> AlH <sub>6</sub> /LiBH <sub>4</sub> and Al/LiBH <sub>4</sub> Systems for Reversible Hydrogen Storage. Part 2: Solid-State NMR Studies. Journal of Physical Chemistry C, 2011, 115, 6048-6056.	1.5	36
56	Computational Fluid Dynamics Simulation of the Hydrogen Reduction of Magnetite Concentrate in a Laboratory Flash Reactor. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 3489-3500.	1.0	36
57	Sintering kinetics and alumina yield in lime-soda sinter process for alumina from coal wastes. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1985, 16, 385-395.	0.5	35
58	Kinetics of carbothermic reduction of magnesia and zinc oxide by thermogravimetric analysis technique. Scandinavian Journal of Metallurgy, 2003, 32, 171-176.	0.3	35
59	Flowsheet development, process simulation and economic feasibility analysis for novel suspension ironmaking technology based on natural gas: Part 3 – Economic feasibility analysis. Ironmaking and Steelmaking, 2013, 40, 44-49.	1.1	35
60	Interactions of Alumina-Based and Magnesia-Based Refractories with Iron Melts and Slags: A Review. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1860-1882.	1.0	35
61	Tungsten carbide nanopowder by plasma-assisted chemical vapor synthesis from WCl6–CH4–H2 mixtures. Journal of Materials Science, 2008, 43, 5185-5192.	1.7	34
62	Plasma Synthesis of Tungsten Carbide Nanopowder from Ammonium Paratungstate. Journal of the American Ceramic Society, 2009, 92, 655-660.	1.9	34
63	Intrinsic Kinetics of the Reaction between Oxygen and Carbonaceous Residue in Retorted Oil Shale. Industrial & Engineering Chemistry Process Design and Development, 1980, 19, 550-555.	0.6	33
64	Effect of bulk flow due to volume change in the gas phase on gas-solid reactions: initially porous solids. Industrial & Engineering Chemistry Process Design and Development, 1982, 21, 658-663.	0.6	33
65	Mathematical modeling of sulfide flash smelting process: Part III. Volatilization of minor elements. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1991, 22, 791-799.	1.0	33
66	Chemical vapor synthesis of Mg–Ti nanopowder mixture as a hydrogen storage material. International Journal of Hydrogen Energy, 2009, 34, 7700-7706.	3.8	33
67	Mathematical modeling of sulfide flash smelting process: Part II. Quantitative analysis of radiative heat transfer. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1990, 21, 959-966.	0.5	32
68	Dip coating of alumina films by the sol-gel method. Journal of Materials Research, 1993, 8, 3151-3157.	1.2	32
69	Kinetics of dehydrogenation of the Mg–Ti–H hydrogen storage system. International Journal of Hydrogen Energy, 2011, 36, 8344-8350.	3.8	32
70	Kinetics of Hydrogen Reduction of Magnetite Concentrate Particles in Solid State Relevant to Flash Ironmaking. Steel Research International, 2017, 88, 1600133.	1.0	32
71	Recycling and utilization of spent potlining by different high temperature treatments. Journal of Cleaner Production, 2021, 289, 125704.	4.6	32
72	The effect of reaction order in nonâ€catalytic gasâ€solid reactions. Canadian Journal of Chemical Engineering, 1972, 50, 674-676.	0.9	31

#	Article	IF	CITATIONS
73	A Novel Cyclic Reaction System Involving CaS and CaSO4for Converting Sulfur Dioxide to Elemental Sulfur without Generating Secondary Pollutants. 3. Kinetics of the Hydrogen Reduction of the Calcium Sulfate Powder to Calcium Sulfide. Industrial & amp; Engineering Chemistry Research, 2002, 41, 3092-3096.	1.8	31
74	Effects of Reducing Gas on Swelling and Iron Whisker Formation during the Reduction of Iron Oxide Compact. Steel Research International, 2012, 83, 903-909.	1.0	31
75	Analysis of the Hydrogen Reduction Rate of Magnetite Concentrate Particles in a Drop Tube Reactor Through CFD Modeling. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1669-1680.	1.0	31
76	The selective carbochlorination of iron from titanlferous magnetite ore in a fluidized bed. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1990, 21, 341-347.	0.5	30
77	Reactions of Nonporous Solids. , 1976, , 65-107.		27
78	Mathematical and experimental investigation of the self-propagating high-temperature synthesis (SHS) of TiAl3 and Ni3Al intermetallic compounds. Journal of Materials Science, 1996, 31, 3281-3288.	1.7	27
79	Effect of water vapor Content in H <sub>2</sub> – <scp>H</scp> <sub>2</sub> <scp>O</scp> – <scp>CO</scp> – <scp>CO</scp> co Mixtures on the Equilibrium Distribution of Manganese between Ca <scp>O</scp> a€" <scp>M</scp> g <scp>O</scp> csub>sat– <scp>S</scp> i <scp>O</scp> <sub>2<td>ıb&gt; 1.0 ı&gt;–<scp< td=""><td><mark>27</mark> ⊳&gt;AI<s< td=""></s<></td></scp<></td></sub>	ıb> 1.0 ı>– <scp< td=""><td><mark>27</mark> ⊳&gt;AI<s< td=""></s<></td></scp<>	<mark>27</mark> ⊳>AI <s< td=""></s<>
80	Effect of oxygen vacancies in non-stoichiometric ceria on its photocatalytic properties. Nano Structures Nano Objects, 2019, 18, 100257.	1.9	27
81	Preparation of ultrafine tungsten carbide powder by CVD method from WCl <sub>6</sub> –C <sub>2</sub> H <sub>2</sub> –H <sub>2</sub> mixtures. Journal of Materials Research, 1993, 8, 2702-2708.	1.2	26
82	A Novel Cyclic Reaction System Involving CaS and CaSO4for Converting Sulfur Dioxide to Elemental Sulfur without Generating Secondary Pollutants. 1. Determination of Process Feasibility. Industrial & Engineering Chemistry Research, 2002, 41, 3081-3086.	1.8	26
83	The influence of chemical equilibrium on fluid-solid reaction rates and the falsification of activation energy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 121-131.	1.0	26
84	Effect of milling intensity on the formation of LiMgN from the dehydrogenation of LiNH2–MgH2 (1:1) mixture. Journal of Power Sources, 2010, 195, 1992-1997.	4.0	26
85	Effect of oxygen vacancies and phases on catalytic properties of hydrogen-treated nanoceria particles. Materials Research Express, 2018, 5, 035501.	0.8	26
86	Kinetics of the reaction between hydrogen sulfide and lime particles. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1985, 16, 163-168.	0.5	25
87	The mixed-control kinetics of ferric chloride leaching of galena. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1989, 20, 107-110.	0.5	25
88	The selective chlorination of iron from Ilmenite ore by CO-Cl2 mixtures: Part II. mathematical modeling of the fluidized-bed process. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1990, 21, 331-340.	0.5	25
89	Calcined calcium magnesium acetate as a superior SO2 sorbent: I. Thermal decomposition. AICHE Journal, 2002, 48, 2971-2977.	1.8	25
90	Potential and Reaction Mechanism of Liâ^'Mgâ^'Alâ^'Nâ^'H System for Reversible Hydrogen Storage. Journal of Physical Chemistry C, 2007, 111, 16686-16692.	1.5	25

#	Article	IF	CITATIONS
91	Analysis of the Reduction Rate of Hematite Concentrate Particles in the Solid State by H2 or CO in a Drop-Tube Reactor Through CFD Modeling. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2677-2684.	1.0	25
92	Energy Consumption and CO2 Emissions in Ironmaking and Development of a Novel Flash Technology. Metals, 2020, 10, 54.	1.0	25
93	Kinetics of As, Sb, Bi and Pb volatilization from industrial copper matte during Ar+O2 bubbling. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 651-661.	1.0	24
94	Methods for Calculating Energy Requirements for Processes in Which a Reactant Is Also a Fuel: Need for Standardization. Jom, 2014, 66, 1557-1564.	0.9	24
95	Mixed-control kinetics of oxygen leaching of chalcopyrite and pyrite from porous primary ore fragments. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1987, 18, 497-503.	0.5	23
96	Model for ferric sulfate leaching of copper ores containing a variety of sulfide minerals: Part I. Modeling uniform size ore fragments. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1992, 23, 537-548.	0.5	23
97	Developments in physical chemistry and basic principles. Jom, 1993, 45, 40-44.	0.9	23
98	Kinetics of Copper Oxidation in the Air Reactor of a Chemical Looping Combustion System using the Law of Additive Reaction Times. Industrial & Engineering Chemistry Research, 2011, 50, 13330-13339.	1.8	23
99	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. Jom, 2013, 65, 1559-1565.	0.9	23
100	Effect of water vapour content in H <sub>2</sub> –H <sub>2</sub> O–CO–CO <sub>2</sub> mixtures on activity of iron oxide in slags relevant to novel flash ironmaking technology. Ironmaking and Steelmaking, 2014, 41, 665-675.	1.1	23
101	Recovery of Copper and Cobalt from Converter Slags via Reduction–Sulfurization Smelting Using Spent Pot Lining as the Reductant. ACS Sustainable Chemistry and Engineering, 2021, 9, 4234-4246.	3.2	23
102	Intrinsic kinetics of the hydrogen reduction of Cu2S. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1985, 16, 831-839.	0.5	22
103	The coming of age of process engineering in extractive metallurgy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1991, 22, 737-754.	1.0	22
104	Mathematical modeling of fluidized-bed chlorination of rutile. AICHE Journal, 1996, 42, 3102-3112.	1.8	22
105	Flash synthesis of Magnéli phase (TinO2n-1) nanoparticles by thermal plasma treatment of H2TiO3. Ceramics International, 2018, 44, 3929-3936.	2.3	22
106	Successive gas-solid reaction model for the hydrogen reduction of cuprous sulfide in the presence of lime. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1985, 16, 645-661.	0.5	21
107	The ignition and combustion of chalcopyrite concentrate particles under suspension-smelting conditions. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1993, 24, 975-985.	0.5	21
108	Ti and TiAl powders by the flash reduction of chloride vapors. Jom, 1998, 50, 50-51.	0.9	21

#	Article	IF	CITATIONS
109	Intrinsic Kinetics and Mechanism of Rutile Chlorination by CO + Cl2 Mixtures. Industrial & Engineering Chemistry Research, 1998, 37, 3800-3805.	1.8	21
110	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. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2001, 32, 869-886.	1.0	21
111	Mechanisms of the Formation of Silica Particles from Precursors with Different Volatilities by Flame Spray Pyrolysis. Aerosol Science and Technology, 2009, 43, 911-920.	1.5	21
112	Reaction Mechanisms in the Li <sub>3</sub> AlH <sub>6</sub> /LiBH <sub>4</sub> and Al/LiBH <sub>4</sub> Systems for Reversible Hydrogen Storage. Part 1: H Capacity and Role of Al. Journal of Physical Chemistry C, 2011, 115, 6040-6047.	1.5	21
113	Sulfur Distribution between Liquid Iron and Magnesia-Saturated Slag in H <sub>2</sub> /H <sub>2</sub> /O Atmosphere Relevant to a Novel Green Ironmaking Technology. Industrial & Engineering Chemistry Research, 2012, 51, 3639-3645.	1.8	21
114	Phosphorus Distribution between Liquid Iron and Magnesia-Saturated Slag in H <sub>2</sub> /H <sub>2</sub> /O Atmosphere Relevant to a Novel Ironmaking Technology. Industrial & Engineering Chemistry Research, 2012, 51, 7028-7034.	1.8	21
115	The law of additive reaction times applied to the hydrogen reduction of porous nickel-oxide pellets. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1984, 15, 403-406.	0.5	20
116	Simplified treatment of the rates of gas-solid reactions involving multicomponent diffusion. Industrial & Engineering Chemistry Research, 1993, 32, 42-48.	1.8	20
117	Kinetics of the Hydrogen Reduction of Silica Incorporating the Effect of Gas-Volume Change upon Reaction. Journal of the American Ceramic Society, 2005, 88, 882-888.	1.9	20
118	Effects of particle shape and size distribution on the overall fluidâ€solid reaction rates of particle assemblages. Canadian Journal of Chemical Engineering, 2016, 94, 1516-1523.	0.9	20
119	Effect of CaSO4 Pelletization Conditions on a Novel Process for Converting SO2 to Elemental Sulfur by Reaction Cycles involving CaSO4/CaS – Part I. CaSO4 Pellet Strength and Reducibility by Hydrogen. Chemical Engineering and Technology, 2007, 30, 628-634.	0.9	19
120	Effect of Water Vapor on Sulfur Distribution Between Liquid Fe and MgO‣aturated Slag Relevant to a Flash Ironmaking Technology. Steel Research International, 2015, 86, 753-759.	1.0	19
121	Nanoceria synthesis in the <scp>KC</scp> l‣iCl salt system: Crystal formation and properties. Journal of the American Ceramic Society, 2017, 100, 1863-1875.	1.9	19
122	The trajectories and distribution of particles in a turbulent axisymmetric gas jet injected into a flash furnace shaft. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1988, 19, 871-884.	0.5	18
123	Microstructural Changes in Several Titaniferous Materials during Chlorination Reaction. Industrial & Engineering Chemistry Research, 1996, 35, 954-962.	1.8	18
124	The Kinetics of Oxidation of Molybdenite Concentrate by Water Vapor. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2007, 38, 689-693.	1.0	18
125	Nanoceria synthesis in molten KOH-NaOH mixture: Characterization and oxygen vacancy formation. Ceramics International, 2018, 44, 3847-3855.	2.3	18
126	Photocatalytic properties of plasma-synthesized zinc oxide and tin-doped zinc oxide (TZO) nanopowders and their applications as transparent conducting films. Journal of Materials Science: Materials in Electronics, 2018, 29, 14945-14959.	1.1	18

#	Article	IF	CITATIONS
127	Measurement and Correlation of Drop-Size Distribution in Liquid. Liquid Emulsions Formed by High-Velocity Bottom Gas Injection ISIJ International, 1995, 35, 234-241.	0.6	18
128	A Unified Theory of Ammonium Perehlorate Deflagration and the Low Pressure Deflagration Limit. Combustion Science and Technology, 1975, 10, 137-154.	1.2	17
129	Gas—Solid Reactions of Industrial Importance. , 1976, , 338-391.		17
130	Approximate closed-form solutions to various model equations for fluid-solid reactions. AICHE Journal, 1986, 32, 1574-1578.	1.8	17
131	Kinetics of the sulfidation of chalcopyrite with gaseous sulfur. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2003, 34, 61-68.	1.0	17
132	Effect of water vapour content in H2–H2O–CO–CO2mixtures on MgO solubility in slag under conditions of novel flash ironmaking technology. Ironmaking and Steelmaking, 2014, 41, 575-582.	1.1	17
133	Plasma-assisted chemical vapor synthesis of indium tin oxide (ITO) nanopowder and hydrogen-sensing property of ITO thin film. Materials Research Express, 2018, 5, 065045.	0.8	17
134	The carbothermal reduction of nickel sulfide in the presence of lime. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1983, 14, 605-615.	0.5	16
135	Distribution of lead between copper and matte and the activity of PbS in copper-saturated mattes. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1984, 15, 441-449.	0.5	16
136	Distribution of Gold and Silver between Copper and Matte. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1985, 16, 53-59.	0.5	16
137	Effect of nonuniform distribution of solid reactant on fluid-solid reactions. 1. Initially nonporous solids. Industrial & Engineering Chemistry Process Design and Development, 1986, 25, 386-394.	0.6	16
138	Effect of nonuniform distribution of solid reactant on fluid-solid reactions. 2. Porous solids. Industrial & Engineering Chemistry Research, 1987, 26, 246-254.	1.8	16
139	Determination of kinetic parameters using differential thermal analysis—Application to the decomposition of CaCO3. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1997, 28, 1157-1164.	1.0	16
140	Synthesis of ultrafine particles of intermetallic compounds by the vapor-phase magnesium reduction of chloride mixtures: Part I. Titanium aluminides. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1998, 29, 457-464.	1.0	16
141	Flux growth of 2M-wollastonite crystals for the preparation of high aspect ratio particles. Ceramics International, 2014, 40, 5973-5982.	2.3	16
142	Reduction of Magnetite Concentrate Particles by H <sub>2</sub> +CO at 1673 K. ISIJ International, 2015, 55, 706-708.	0.6	16
143	Kinetics and Sulfur fixation in the reduction or oxidation of metal Sulfides mixed with lime. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1983, 14, 175-180.	0.5	15
144	Intrinsic kinetics of the reaction between zinc sulfide and water vapor. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1987, 18, 451-457.	0.5	15

#	Article	IF	CITATIONS
145	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. Ironmaking and Steelmaking, 2013, 40, 32-43.	1.1	15
146	Properties of stable nonstoichiometric nanoceria produced by thermal plasma. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	15
147	The formation and growth of CeOCl crystals in a molten KCl-LiCl flux. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	15
148	Ca-Mg acetate as dry SO2 sorbent: III. Sulfation of MgO+CaO. AICHE Journal, 2002, 48, 2985-2991.	1.8	14
149	Nanograined WC-Co Composite Powders by Chemical Vapor Synthesis. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2008, 39, 1-6.	1.0	14
150	Formation and Evaluation of Protective Layer Over Magnesium Melt Under SF6/Air Atmospheres. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1370-1379.	1.0	14
151	Rate Enhancement of the Gaseous Reduction of Iron Oxide Pellets by Pressure Cycling. Transactions of the Iron and Steel Institute of Japan, 1984, 24, 387-395.	0.2	14
152	Fundamentals of the Kinetics of Heterogeneous Reaction Systems in Extractive Metallurgy. , 1979, , 1-51.		13
153	A mathematical model for the solution mining of primary copper ore: Part I. leaching by oxygen-saturated solution containing no gas bubbles. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1983, 14, 541-551.	0.5	13
154	Process mineralogy of suspended particles from a simulated commercial flash smelter. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1988, 19, 719-729.	0.5	13
155	Kinetics of oxidation of MoS2 by CaO in the presence of water vapor. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1988, 19, 973-975.	0.5	13
156	The kinetics of carbochlorination of titania slag. Canadian Journal of Chemical Engineering, 1998, 76, 1078-1082.	0.9	13
157	A Novel Cyclic Reaction System Involving CaS and CaSO4for Converting Sulfur Dioxide to Elemental Sulfur without Generating Secondary Pollutants. 2. Kinetics of the Reduction of Sulfur Dioxide by Calcium Sulfide Powder. Industrial & Engineering Chemistry Research, 2002, 41, 3087-3091.	1.8	13
158	Constitutive Topics in Physical Chemistry of High-Temperature Nonferrous Metallurgy—A Review: Part 1. Sulfide Roasting and Smelting. Jom, 2019, 71, 3253-3265.	0.9	13
159	Interaction of ferrous oxide with alumina refractory under flash ironmaking conditions. Ceramics International, 2019, 45, 15417-15428.	2.3	13
160	Effect of internally generated bulk flow on the rates of gas-solid reactions. 2. Multiple gas-solid reactions during the gasification of char in an oil shale block. Industrial & Engineering Chemistry Process Design and Development, 1984, 23, 691-696.	0.6	12
161	Effect of reduced pressure on oil shale retorting. 1. Kinetics of oil generation. Industrial & Engineering Chemistry Process Design and Development, 1985, 24, 265-270.	0.6	12
162	Kinetics of zinc oxide formation from zinc sulfide by reaction with lime in the presence of water vapor. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1987, 18, 727-732.	0.5	12

#	Article	IF	CITATIONS
163	Minor-Element Behavior and Iron Partition During the Cleaning of Copper Converter Slag Under Reducing Conditions. Canadian Metallurgical Quarterly, 1997, 36, 31-37.	0.4	12
164	A novel cyclic process using CaSO4/CaS pellets for converting sulfur dioxide to elemental sulfur without generating secondary pollutants: Part I. Feasibility and kinetics of the reduction of sulfur dioxide with calcium-sulfide pellets. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2002, 33, 711-716.	1.0	12
165	Effect of CaSO <sub>4</sub> Pelletization Conditions on a Novel Process for Converting SO <sub>2</sub> to Elemental Sulfur by Reaction Cycles Involving CaSO <sub>4</sub> /CaS – Part II: Reduction of SO <sub>2</sub> with CaS. Chemical Engineering and Technology, 2007, 30, 951-954.	0.9	12
166	A hybrid method for hydrogen storage and generation from water. Journal of Power Sources, 2007, 172, 853-858.	4.0	12
167	Chemical Vapor Synthesis and Characterization of Nanosized WCâ^'Co Composite Powder and Post-treatment. Industrial & Engineering Chemistry Research, 2008, 47, 9384-9388.	1.8	12
168	Application of the Law of Additive Reaction Times to Fluid–Solid Reactions in Porous Pellets with Changing Effective Diffusivity. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2010, 41, 1261-1267.	1.0	12
169	Synthesis of Yttriaâ€Stabilized Zirconia Nanopowders by a Thermal Plasma Process. Journal of the American Ceramic Society, 2010, 93, 3130-3135.	1.9	12
170	Experimental Investigation and Computational Fluid Dynamics Simulation of a Novel Flash Ironmaking Process Based on Partial Combustion of Natural Gas in a Reactor. Steel Research International, 2019, 90, 1900126.	1.0	12
171	Review of fluidâ€solid reaction analysis—Part 2: Single porous reactant solid. Canadian Journal of Chemical Engineering, 2019, 97, 2068-2076.	0.9	12
172	Computational Fluid Dynamics Simulation of Gas–Matte–Slag Three-Phase Flow in an ISASMELT Furnace. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 3767-3776.	1.0	12
173	Physical and mathematical modeling of pyrometallurgical channel reactors with bottom gas injection: Residence time distribution analysis and ideal- reactor- network model. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1994, 25, 207-219.	1.0	11
174	Self-Propagating High Temperature Synthesis (SHS) of Intermetallic Compounds Titanium and Nickel Aluminides. Materials and Manufacturing Processes, 1994, 9, 75-87.	2.7	11
175	Synthesis of ultrafine particles of intermetallic compounds by the vapor-phase magnesium reduction of chloride mixtures: Part II. Nickel aluminides. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1998, 29, 465-469.	1.0	11
176	On the Rate Expressions for "Reversible―Gas–Solid Reactions. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1600-1602.	1.0	11
177	Photocatalytic Properties of Plasma-Synthesized Aluminum-Doped Zinc Oxide Nanopowder. Journal of Nanoscience and Nanotechnology, 2019, 19, 4377-4386.	0.9	11
178	Plasma-Assisted Chemical Vapor Synthesis of Aluminum-Doped Zinc Oxide Nanopowder and Synthesis of AZO Films for Optoelectronic Applications. Journal of Electronic Materials, 2019, 48, 2531-2542.	1.0	11
179	Kinetics of hydrogen reduction of magnetite concentrate particles at 1623–1873 K relevant to flash ironmaking. Ironmaking and Steelmaking, 2021, 48, 485-492.	1.1	11
180	On the maximum temperature rise in gas-solid reactions. AICHE Journal, 1973, 19, 191-193.	1.8	10

#	Article	IF	CITATIONS
181	Dry method preparation and melting point of Cu2SO4. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1982, 13, 515-517.	0.5	10
182	A mathematical model for the solution mining of primary copper ore: Part II. leaching by solution containing oxygen bubbles. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1983, 14, 553-558.	0.5	10
183	An equilibrium study of the hydrogen reduction of copper sulfates. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1983, 14, 136-139.	0.5	10
184	Gas-solid reaction-rate enhancement by pressure cycling. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1992, 23, 285-294.	1.0	10
185	Preparation of nickel-coated alumina composite powder by an aqueous-phase reduction process. Journal of Materials Science, 1995, 30, 3883-3887.	1.7	10
186	Synthesis of ultrafine nickel aluminide particles by the hydrogen reduction of vapor-phase mixtures of NiCl2 and AlCl3. Journal of Materials Research, 1998, 13, 3060-3069.	1.2	10
187	Chemical reaction engineering in the chemical processing of metals and inorganic materials. Korean Journal of Chemical Engineering, 2003, 20, 185-199.	1.2	10
188	The Penetration Behavior of an Annular Gas–Solid Jet Impinging on a Liquid Bath: Comparison with a Conventional Circular Jet. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2010, 41, 51-62.	1.0	10
189	Chemical vapor synthesis and characterization of aluminum nanopowder. Journal of Power Sources, 2010, 195, 1463-1471.	4.0	10
190	Computational fluid dynamics simulation of chemical vapor synthesis of WC nanopowder from tungsten hexachloride. Chemical Engineering Science, 2010, 65, 1773-1780.	1.9	10
191	Intrinsic Kinetics of Chlorination of WO3 Particles With Cl2 Gas Between 973ÂK and 1223ÂK (700°C and) Tj E Science, 2011, 42, 316-323.	TQq1 1 0. 1.0	784314 rg <sup>B</sup> 10
192	Kinetics of pre-reduction of manganese ore by CO. Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy, 2012, 121, 109-116.	0.6	10
193	Re-oxidation Kinetics of Flash-Reduced Iron Particles in H2-H2O(g) Atmosphere Relevant to a Novel Flash Ironmaking Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 1520-1530.	1.0	10
194	On the Initial Rate of Fluid–Solid Reactions. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1827-1832.	1.0	10
195	Volatilization and Slagging of Lead in Copper Matte Converting: Computer Simulation. Canadian Metallurgical Quarterly, 1984, 23, 405-411.	0.4	9
196	Model for ferric sulfate leaching of copper ores containing a variety of sulfide minerals: Part II. Process modeling of in situ operations. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1992, 23, 549-555.	0.5	9
197	The self-propagating high-temperature synthesis (SHS) of ultrafine high-purity TiC powder from TiO2+Mg+C. Journal of Materials Science, 1995, 30, 2835-2837.	1.7	9
198	Magnesium reduction of WO3 in a self-propagating high-temperature synthesis (SHS) process. Journal of Materials Research, 1995, 10, 795-797.	1.2	9

#	Article	IF	CITATIONS
199	Thermodynamics of a New Cyclic Reaction System Involving BaS and BaSO4for Converting Sulfur Dioxide to Elemental Sulfur. Industrial & Engineering Chemistry Research, 2003, 42, 5946-5948.	1.8	9
200	Computational Fluid Dynamic Modeling of a Flame Reaction Process for Silica Nanopowder Synthesis from Tetraethylorthosilicate. Journal of the American Ceramic Society, 2007, 90, 071019062949004-???.	1.9	9
201	Nitric Acid Leaching of Base Metals from Waste PDP Electrode Scrap and Recovery of Ruthenium Content from Leached Residues. Materials Transactions, 2011, 52, 1063-1069.	0.4	9
202	The Penetration Behavior of an Annular Gas–Solid Jet Impinging on a Liquid Bath: The Effects of the Density and Size of Solid Particles. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 787-813.	1.0	9
203	Re-Oxidation Kinetics of Flash Reduced Iron Particles in O2–N2 Gas Mixtures Relevant to a Novel Flash Ironmaking Process. ISIJ International, 2014, 54, 1235-1243.	0.6	9
204	Review of fluidâ€solid reaction analysis—Part 1: Single nonporous reactant solid. Canadian Journal of Chemical Engineering, 2019, 97, 2061-2067.	0.9	9
205	Interaction of magnesia-carbon refractory with metallic iron under flash ironmaking conditions. Journal of the European Ceramic Society, 2020, 40, 529-541.	2.8	9
206	Scalable Preparation of Bimetallic Cu/Ni-Based Oxygen Carriers for Chemical Looping. Energy & Fuels, 2020, 34, 11227-11236.	2.5	9
207	Design of Novel Flash Ironmaking Reactors for Greatly Reduced Energy Consumption and CO2 Emissions. Metals, 2021, 11, 332.	1.0	9
208	Effect of internally generated bulk flow on the rates of gas-solid reactions. 1. Development of an approximate solution. Industrial & Engineering Chemistry Process Design and Development, 1984, 23, 685-691.	0.6	8
209	Activity of SnS in copper-saturated matte. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1984, 15, 595-598.	0.5	8
210	A Novel Process for Transforming Selected Metal Sulfides to Oxides without Emitting Sulfur-Containing Gaseous Pollutants. Journal of Metals, 1984, 36, 67-73.	0.2	8
211	Effect of reduced pressure of oil shale retorting. 2. Oil yield. Industrial & Engineering Chemistry Process Design and Development, 1985, 24, 271-273.	0.6	8
212	Mathematical analysis of the effect of retorting pressure on oil yield and rate of oil generation from oil shale. Industrial & Engineering Chemistry Process Design and Development, 1985, 24, 274-280.	0.6	8
213	Experimental and theoretical study of particle dispersion phenomena in a turbulent gas jet of the flash-smelting process by the image analysis technique. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1995, 26, 637-646.	1.0	8
214	Dispersed-phase holdup in liquid-liquid emulsions generated by high-strength bottom gas injection. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1996, 27, 213-219.	1.0	8
215	Thermal removal of gallium from gallia-doped ceria. Journal of Nuclear Materials, 2000, 280, 285-294.	1.3	8
216	Process for treating refractory gold ores by roasting under oxidizing conditions. Mining, Metallurgy and Exploration, 2000, 17, 1-6.	0.4	8

#	Article	IF	CITATIONS
217	Ca-Mg acetate as dry SO2 sorbent: II. Sulfation of CaO in calcination product. AICHE Journal, 2002, 48, 2978-2984.	1.8	8
218	A novel cyclic process using CaSO4/CaS pellets for converting sulfur dioxide to elemental sulfur without generating secondary pollutants: Part II. Hydrogen reduction of calcium-sulfate pellets to calcium sulfide. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2002, 33, 717-721.	1.0	8
219	The effect of heating rate on the reversible hydrogen storage based on reactions of Li3AlH6 with LiNH2. Journal of Power Sources, 2008, 185, 1354-1358.	4.0	8
220	Computational fluid dynamic modeling of a chemical vapor synthesis process for aluminum nanopowder as a hydrogen storage precursorâ~†. Chemical Engineering Journal, 2010, 156, 215-225.	6.6	8
221	Application of additive-reaction-times law to the mixed-control kinetics of oxygen leaching of chalcopyrite. Hydrometallurgy, 2014, 146, 164-168.	1.8	8
222	Status of the Development of Flash Ironmaking Technology. Minerals, Metals and Materials Series, 2017, , 15-23.	0.3	8
223	Physical behaviour of oil shale at various temperatures and compressive loads. Fuel, 1985, 64, 184-188.	3.4	7
224	The selective oxidation of mixed metal sulfides with lime in the presence of steam without emitting sulfur-containing pollutants. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1989, 20, 237-242.	1.0	7
225	Recovery of copper from α-etchant solution by electrowinning and cementation. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1993, 24, 192-197.	0.5	7
226	The rate of antimony elimination from molten copper by the use of Na2CO3 slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2003, 34, 869-879.	1.0	7
227	Sulfide smelting fundamentals, technologies and innovations. Mining, Metallurgy and Exploration, 2005, 22, 65-76.	0.4	7
228	Computational fluid dynamic modeling of the flame spray pyrolysis process for silica nanopowder synthesis. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	7
229	Computational fluid dynamics modeling of hydrogen-oxygen flame. International Journal of Hydrogen Energy, 2016, 41, 3284-3290.	3.8	7
230	Experimental Investigation and Computational Fluid Dynamics Simulation of the Magnetite Concentrate Reduction Using Methane-Oxygen Flame in a Laboratory Flash Reactor. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 1003-1015.	1.0	7
231	The kinetics of carbon monoxide reduction of magnetite concentrate particles through CFD modelling. Ironmaking and Steelmaking, 2021, 48, 769-778.	1.1	7
232	Plasma Synthesis of Advanced Metal Oxide Nanoparticles and Their Applications as Transparent Conducting Oxide Thin Films. Molecules, 2021, 26, 1456.	1.7	7
233	Development and Verification of a New Thermodynamic Model for Solvent Extraction of Metal Ions Based on the K-Value Method Journal of Chemical Engineering of Japan, 1996, 29, 781-793.	0.3	6

Process Modeling in Non-Ferrous Metallurgy. , 2014, , 701-838.

#	Article	IF	CITATIONS
235	A Non-linear Temperature–Time Program for Non-isothermal Kinetic Measurements. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1203-1208.	1.0	6
236	Oxidation and Condensation of Zinc Fume From Zn-CO2-CO-H2O Streams Relevant to Steelmaking Off-Gas Systems. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 908-921.	1.0	6
237	Fluid–Solid Reaction Kinetics for Solids of Nonbasic Geometries and Determination of the Appropriate Shape Factors. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2037-2046.	1.0	6
238	Fluid–Solid Reaction Kinetics for Solids of Non-basic Geometries: Application of the Law of Additive Times in Combination with the Shape-Factor Method. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 601-610.	1.0	6
239	Experimental Study on Bubble Distribution and Splashing in a Peirce–Smith Copper Converter. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 440-450.	1.0	6
240	Volatilization and Slagging of Lead in Copper Matte Converting: Computer Simulation. Canadian Metallurgical Quarterly, 1984, 23, 405-411.	0.4	6
241	Predominance area diagrams of the system Co-S-O between 583 and 1148 K. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1983, 14, 506-509.	0.5	5
242	Physical behaviour of oil shale at various temperatures and compressive loads. Fuel, 1985, 64, 938-940.	3.4	5
243	Size distribution analysis for copper matte particles oxidized under flash-converting conditions. Jom, 2002, 54, 27-30.	0.9	5
244	Overall Rate Analysis of the Gaseous Reduction of Stable Oxides Incorporating Chemical Kinetics, Mass Transfer, and Chemical Equilibrium. Journal of the American Ceramic Society, 2006, 89, 1006-1013.	1.9	5
245	The oxidation of molybdenum sulphide concentrate with water vapour Part 2 – Macrokinetics and mechanism. Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy, 2007, 116, 155-158.	0.6	5
246	Plasma synthesis of nanosized W–Co composite powder followed by carburization with a methane–hydrogen mixture. Journal of Nanoparticle Research, 2010, 12, 2851-2857.	0.8	5
247	Three-Dimensional CFD-Population Balance Simulation of a Chemical Vapor Synthesis Reactor for Aluminum Nanopowder: Nucleation, Surface Growth, and Coagulation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 413-423.	1.0	5
248	Compositional Fragmentation Model for the Oxidation of Sulfide Particles in a Flash Reactor. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 726-742.	1.0	5
249	Effect of mechanical activation on the hydrogen reduction kinetics of magnetite concentrate. Journal of Thermal Analysis and Calorimetry, 2017, 130, 713-720.	2.0	5
250	Review of fluidâ€solid reaction analysis—Part 3: Complex fluidâ€solid reactions. Canadian Journal of Chemical Engineering, 2019, 97, 2326-2332.	0.9	5
251	Interaction of Iron with Alumina Refractory Under Flash Ironmaking Conditions. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2063-2076.	1.0	5
252	The structure-directing role of graphene in composites with porous FeOOH nanorods for Li ion batteries. RSC Advances, 2020, 10, 41403-41409.	1.7	5

#	Article	IF	CITATIONS
253	Novel Flash Ironmaking Technology Based on Iron Ore Concentrate and Partial Combustion of Natural Gas: A CFD Study. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 2046-2056.	1.0	5
254	Rate-enhancement effect of CO in magnetite concentrate particle reduction by H <sub>2</sub> +CO mixtures. Ironmaking and Steelmaking, 2021, 48, 1064-1075.	1.1	5
255	Discussion of "The Importance of Convective Mass Transfer in the Reduction of Hematite― Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1978, 9, 723-725.	0.5	4
256	Intrinsic kinetics of the hydrogen reduction of copper sulfate: Determination by a nonisothermal technique. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1985, 16, 397-401.	0.5	4
257	Determination of the oxidation characteristics of solid copper matte particles by differential scanning calorimetry and thermogravimetric analysis. Mining, Metallurgy and Exploration, 1999, 16, 1-7.	0.4	4
258	The oxidation of molybdenum sulphide concentrate with water vapour Part 1 – Thermodynamic aspects. Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy, 2007, 116, 152-154.	0.6	4
259	Effect of CaSO <sub>4</sub> pelletisation conditions on pellet strength and reactivity for converting SO <sub>2</sub> to elemental sulphur by reaction cycles involving CaSO <sub>4</sub> /CaS. Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy. 2008. 117. 100-107.	0.6	4
260	Penetration behaviour of an annular gas–solid jet impinging on a liquid bath: effect of the annular crossâ€sectional area. Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy, 2011, 120, 21-31.	0.6	4
261	Formation and Evaluation of Protective Layer over Magnesium Melt Under CO2/Air Mixtures. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 226-234.	1.0	4
262	Greenhouse Gas Emissions and Energy Consumption of Ironmaking Processes. , 2016, , 427-455.		4
263	The Role of Expansion and Fragmentation Phenomena on the Generation and Chemical Composition of Dust Particles in a Flash Converting Reactor. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 3115-3125.	1.0	4
264	Rapid preparation and properties investigation on TinO2n-1@C core-shell nanoparticles. Journal of Alloys and Compounds, 2020, 816, 152516.	2.8	4
265	Fluid–Solid Reaction Kinetics for Solids of Nonbasic Geometries: Comparison of the Sohn–Wall Method and the Shape-Factor Method. Industrial & Engineering Chemistry Research, 2020, 59, 5720-5724.	1.8	4
266	The law of additive reaction times in fluid-solid reactions. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1978, 9, 89-96.	0.5	4
267	Alumina from coal wastes through the formation of aluminum nitride by carbothermal reduction under nitrogen. Industrial & Engineering Chemistry Product Research and Development, 1986, 25, 367-372.	0.5	3
268	Effects of Coexisting Oxygen and Antimony in Molten Copper on Rate of Arsenic Elimination from the Copper Phase by the Use of Na <sub>2</sub> CO <sub>3</sub> Slag. Materials Transactions, 2005, 46, 2180-2189.	0.4	3
269	Constitutive Topics in Physical Chemistry of High-Temperature Nonferrous Metallurgy: A Review—Part 2. Reduction and Refining. Jom, 2019, 71, 3266-3276.	0.9	3
270	Interaction of magnesia-carbon refractory with ferrous oxide under flash ironmaking conditions. Ceramics International, 2020, 46, 7204-7217.	2.3	3

#	Article	IF	CITATIONS
271	Analysis of the Gaseous Reduction of Porous Wustite Pellets by Response Surface Methodology. Steel Research International, 2021, 92, 2100048.	1.0	3
272	Reduction Kinetics of Hematite Concentrate Particles by CO+H2 Mixture Relevant to a Novel Flash Ironmaking Process. , 2016, , 221-228.		3
273	Determination of Total Iron Content in Iron Ore and DRI: Titrimetric Method Versus ICP-OES Analysis. , 2016, , 125-133.		3
274	Minor-element behaviour in copper-making. , 1991, , 205-217.		3
275	An approximate solution for the retorting of a large block of oil shale with an internal temperature gradient. Fuel, 1981, 60, 276-279.	3.4	2
276	The oxidation of carbonaceous residue dispersed in porous retorted oil shale. AICHE Journal, 1985, 31, 860-862.	1.8	2
277	Metallurgical processes for the year 2000 and beyond. Jom, 1990, 42, 32-34.	0.9	2
278	Chemical vapor deposition kinetics of tungsten from WCl6 onto nickel plate at elevated temperatures. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1991, 22, 560-563.	0.5	2
279	Beyond the Peirce-Smith converter: Recent advances in sulfide smelting processes. Jom, 1994, 46, 50-50.	0.9	2
280	Backmixing in channel reactors with high-strength bottom gas injection. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1994, 25, 619-623.	1.0	2
281	Phase characterization and burning rate in the self-propagating high-temperature synthesis of titanium borides. Journal of Materials Research, 1995, 10, 3179-3184.	1.2	2
282	The effect of bulk concentration gradient on fluid–solid reaction rate. Chemical Engineering Science, 1999, 54, 803-806.	1.9	2
283	Dissolution of lead and bismuth in white metal (CuS0.5) at matte-smelting temperatures. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 543-546.	1.0	2
284	Chemical reaction engineering in the chemical processing of metals and inorganic materials. Korean Journal of Chemical Engineering, 2003, 20, 415-428.	1.2	2
285	Chemical Vapor Synthesis of UltrafIne Fe-Co Powder. High Temperature Materials and Processes, 2004, 23, 329-334.	0.6	2
286	Interphase mass transfer with bulk flow normal to the phase boundary. Korean Journal of Chemical Engineering, 2004, 21, 34-40.	1.2	2
287	From Sulfide Flash Smelting to a Novel Flash Ironmaking Technology. , 0, , 69-76.		2
288	Hydrometallurgical Principles â~†. , 2017, , .		2

#	Article	IF	CITATIONS
289	A CFD Based Algorithm for Kinetics Analysis of the Reduction of Hematite Concentrate by H2Â+ÂCO Mixtures in a Drop Tube Reactor. Minerals, Metals and Materials Series, 2017, , 61-70.	0.3	2
290	Flow zone distribution and mixing time in a Peirce—Smith copper converter. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 70-77.	2.4	2
291	IGNITION OF AMMONIUM PERCHLORATE. Chemical Engineering Communications, 1979, 3, 501-514.	1.5	1
292	Developments in Physical Chemistry and Basic Principles of Extractive and Process Metallurgy in 1981. Journal of Metals, 1982, 34, 44-50.	0.2	1
293	1983 International Sulfide Smelting Symposium (the First TMS-AIME Fall Extractive and Process) Tj ETQq1 1 0.7	84314 rgB <sup>⊤</sup> 0.2	Г /Qverlock 1
294	Effect of raw oil shale grade on the kinetics of oxidation of carbonaceous residue in retorted shale. Industrial & Engineering Chemistry Process Design and Development, 1985, 24, 506-507.	0.6	1
295	Experimental investigation and mathematical modeling of the ignition of an oil shale bed with hot air. Industrial & Engineering Chemistry Process Design and Development, 1985, 24, 753-761.	0.6	1
296	Gas-Solid Reactions in Pyrometallurgy. Jom, 1986, 38, 33-33.	0.9	1
297	Developments in Physical Chemistry and Basic Principles. Jom, 1988, 40, 38-44.	0.9	1
298	Emulsions in Metallurgical and Chemical Processes. Mineral Processing and Extractive Metallurgy Review, 1993, 12, 271-290.	2.6	1
299	Developments in physical chemistry and basic principles. Jom, 1997, 49, 40-44.	0.9	1
300	Model for the fragmentation of copper matte particles during flash converting. Mining, Metallurgy and Exploration, 2008, 25, 53-60.	0.4	1
301	Computational fluid dynamics modelling of nanopowder production by chemical vapour synthesis process. Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy, 2011, 120, 224-228.	0.6	1
302	Effect of Water Vapor on O2â^' Content in Ironmaking Slag. Journal of Iron and Steel Research International, 2015, 22, 909-915.	1.4	1
303	Effect of water vapour on distribution of phosphorus between liquid iron and MgO saturated slag relevant to flash ironmaking technology. Ironmaking and Steelmaking, 2015, 42, 346-350.	1.1	1
304	Interaction of Pure Alumina Refractory with FeO–SiO 2 andÂFeO–SiO 2 –CaO Slags Relevant to the Novel Flash Ironmaking Technology. Steel Research International, 2019, 90, 1900104.	1.0	1
305	Principles and applications of mathematical and physical modelling of metallurgical processes. Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2020, 129, 117-144.	0.1	1
306	Flash Reduction of Magnetite and Hematite Concentrates with Hydrogen in a Lab-Scale Reactor for a Novel Ironmaking Process. , 2016, , 3-10.		1

#	Article	IF	CITATIONS
307	Hydrogen Reduction Kinetics of Mechanically Activated Magnetite Concentrate. , 2016, , 51-60.		1
308	Flash Ironmaking from Magnetite Concentrate in a Laboratory Reactor: Experimental and CFD Work. Minerals, Metals and Materials Series, 2017, , 3-10.	0.3	1
309	Plasma-assisted synthesis of non-stoichiometric nanoceria powder from cerium carbonate hydroxide (CeCO3OH). Metallurgical and Materials Engineering, 2017, 23, 213-225.	0.2	1
310	Discussion of "a simple kinetic model for sulfuric acid leaching of copper from chrysocolla― Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1976, 7, 297-298.	0.5	0
311	Developments in Physical Chemistry and Basic Principles of Extractive Metallurgy in 1979. Jom, 1980, 32, 16-19.	0.9	0
312	Developments in Physical Chemistry and Basic Principles of Extractive and Process Metallurgy in 1982. Journal of Metals, 1983, 35, 36-41.	0.2	0
313	Metallurgy and Metallurgical Engineering at the University of Utah. Jom, 1985, 37, 33-34.	0.9	0
314	Developments in Physical Chemistry and Basic Principles of Extractive and Process Metallurgy in 1984. Jom, 1985, 37, 51-57.	0.9	0
315	Developments in Physical Chemistry and Basic Principles. Jom, 1986, 38, 43-48.	0.9	0
316	Developments in Physical Chemistry and Basic Principles. Jom, 1987, 39, 28-34.	0.9	0
317	Developments in physical chemistry and basic principles. Jom, 1989, 41, 59-64.	0.9	0
318	Oxygen pressure leaching of copper from primary chalcopyrite ore containing pyrite under simulated solution-mining conditions. Mining, Metallurgy and Exploration, 1990, 7, 163-168.	0.4	0
319	Developments in physical chemistry and basic principles. Jom, 1991, 43, 36-42.	0.9	0
320	Developments in physical chemistry and basic principles. Jom, 1992, 44, 50-55.	0.9	0
321	Developments in physical chemistry and basic principles. Jom, 1994, 46, 43-50.	0.9	0
322	Developments in physical chemistry and basic principles. Jom, 1995, 47, 60-66.	0.9	0
323	Developments in physical chemistry and basic principles. Jom, 1996, 48, 56-61.	0.9	0
324	Developments in physical chemistry and basic principles. Jom, 1998, 50, 48-54.	0.9	0

#	Article	IF	CITATIONS
325	The Rate of Arsenic and Antimony Elimination from Molten Copper by the Use of Na2CO3 Slag. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2004, 68, 381-389.	0.2	0
326	The Potential of Binary Lithium Magnesium Nitride - LiMgN for Hydrogen Storage Application. Materials Research Society Symposia Proceedings, 2007, 1042, 1.	0.1	0
327	Hydrogen Storage Properties of a Combined Li3AlH6-LiBH4 System. Materials Research Society Symposia Proceedings, 2008, 1098, 1.	0.1	0
328	Oxidation of Flash Reduced Iron Particles in Various Gas Mixtures Under the Conditions of a Novel Flash Ironmaking Process. , 0, , 507-517.		0
329	A Computational Fluid Dynamic Model for a Novel Flashironmaking Process. , 2014, , 385-392.		0
330	Cellular growth of 2M-wollastonite in flux growth process relevant to preparation of high aspect ratio particles. Advances in Applied Ceramics, 2016, 115, 137-143.	0.6	0
331	Hydrogen-Based Flash Ironmaking Technology (HyFIT): A Novel Green Ironmaking Technology With Low Energy Consumption. , 2021, , 122-130.		0
332	Oxidation of Flash Reduced Iron Particles in Various Gas Mixtures Under the Conditions of a Novel Flash Ironmaking Process. , 2014, , 509-517.		0
333	From Sulfide Flash Smelting to a Novel Flash Ironmaking Technology. , 2014, , 69-76.		0
334	Experimental and Mathematical Investigation of the Flash Combustion of Copper Sulfide Particles in a Turbulent Gas Jet. , 1995, , 171-200.		0
335	Computational Fluid Dynamics Simulations of a Laboratory Flash Reactor Relevant to a Novel Ironmaking Process. Minerals, Metals and Materials Series, 2016, , 11-18.	0.3	0
336	Reduction Kinetics of Magnetite Concentrate Particles with H2 + CO at 1200 to 1600 °C Relevant to a Novel Ironmaking Process. , 2016, , 35-41.		0
337	A Model for the Interaction of Fe with MgO–14.5Âwt%ÂC Refractory Under Flash Ironmaking Conditions. Minerals, Metals and Materials Series, 2020, , 95-106.	0.3	0