

# Guo-Hua Zhang

## List of Publications by Citations

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165  
papers

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23  
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177  
ext. papers

2,270  
ext. citations

3.1  
avg, IF

5.65  
L-index

#	Paper	IF	Citations
165	Modelling Viscosities of CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Molten Slags. <i>ISIJ International</i> , <b>2012</b> , 52, 355-362	1.7	83
164	Modeling Viscosities of CaO-MgO-FeO-MnO-SiO <sub>2</sub> Molten Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2012</b> , 43, 64-72	2.5	72
163	A Structurally Based Viscosity Model for Oxide Melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2014</b> , 45, 698-706	2.5	69
162	Kinetics and mechanism of hydrogen reduction of MoO <sub>3</sub> to MoO <sub>2</sub> . <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2013</b> , 41, 216-223	4.1	68
161	Oxidation roasting of molybdenite concentrate. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2015</b> , 25, 4167-4174	3.3	46
160	Measuring and Modeling Viscosity of CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> (-K <sub>2</sub> O) Melt. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2012</b> , 43, 841-848	2.5	43
159	Study on kinetics of hydrogen reduction of MoO <sub>2</sub> . <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2013</b> , 41, 356-362	4.1	40
158	Estimation of Sulfide Capacities of Multicomponent Slags using Optical Basicity. <i>ISIJ International</i> , <b>2013</b> , 53, 761-767	1.7	37
157	Simple Method for Estimating the Electrical Conductivity of Oxide Melts with Optical Basicity. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2010</b> , 41, 131-136	2.5	36
156	Viscosity of CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -TiO <sub>2</sub> Melts Containing TiC Particles. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2015</b> , 46, 155-161	2.5	33
155	Model for evaluating density of molten slag with optical basicity. <i>Journal of Iron and Steel Research International</i> , <b>2010</b> , 17, 1-4	1.2	31
154	Kinetics and mechanism of hydrogen reduction of ilmenite powders. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 619, 443-451	5.7	29
153	A low-cost, efficient, and industrially feasible pathway for large scale preparation of tungsten nanopowders. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 78, 100-106	4.1	29
152	Study on oxidation mechanism and kinetics of MoO <sub>2</sub> to MoO <sub>3</sub> in air atmosphere. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2016</b> , 57, 115-124	4.1	26
151	Influence of Pre-oxidation on Carbothermic Reduction Process of Ilmenite Concentrate. <i>ISIJ International</i> , <b>2015</b> , 55, 928-933	1.7	26
150	Preparation of Ultrafine MoO <sub>3</sub> from Industrial Grade MoO <sub>3</sub> Powder by the Method of Sublimation. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 19821-19829	3.8	25
149	Study on Hydrogen Reduction of Ultrafine MoO <sub>2</sub> To Produce Ultrafine Mo. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 4097-4103	3.8	25

148	Correlation Between Viscosity and Electrical Conductivity of Aluminosilicate Melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2012</b> , 43, 849-855	2.5	25
147	Reduction Kinetics of Metal Oxides by Hydrogen. <i>Steel Research International</i> , <b>2013</b> , 84, 526-533	1.6	25
146	Relation Between Viscosity and Electrical Conductivity of Silicate Melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2011</b> , 42, 261-264	2.5	25
145	Fabrication of ultrafine and high-purity tungsten carbide powders via a carbothermic reduction-carburization process. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 784, 362-369	5.7	25
144	Mechanism and kinetic study of hydrogen reduction of ultra-fine spherical MoO <sub>3</sub> to MoO <sub>2</sub> . <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2016</b> , 54, 342-350	4.1	24
143	Preparation of ultrafine Mo powders via carbothermic pre-reduction of molybdenum oxide and deep reduction by hydrogen. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2018</b> , 75, 70-77	4.1	23
142	Synthesis of nanocrystalline molybdenum powder by hydrogen reduction of industrial grade MoO <sub>3</sub> . <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2016</b> , 59, 100-104	4.1	22
141	Influence of Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Ratio on Viscosities and Structure of CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -TiO <sub>2</sub> Melts. <i>ISIJ International</i> , <b>2014</b> , 54, 985-989	1.7	22
140	Size-controlled synthesis of nano Mo powders via reduction of commercial MoO <sub>3</sub> with carbon black and hydrogen. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 80, 11-22	4.1	22
139	Phase Evolution During the Carbothermic Reduction Process of Ilmenite Concentrate. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2015</b> , 46, 48-56	2.5	21
138	Carbothermic Reduction of Titanium-Bearing Blast Furnace Slag. <i>High Temperature Materials and Processes</i> , <b>2016</b> , 35, 309-319	0.9	20
137	Influence of Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> Ratio on Viscosities of CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Melt. <i>ISIJ International</i> , <b>2013</b> , 53, 177-180	1.7	20
136	Viscosity model for fully liquid silicate melt. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , <b>2012</b> , 48, 1-10	1	20
135	Influence of TiC on the Viscosity of CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -TiC Suspension System. <i>ISIJ International</i> , <b>2015</b> , 55, 922-927	1.7	20
134	Synthesis of molybdenum nitrides nanosheets by nitriding 2H-MoS <sub>2</sub> with ammonia. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 2796-2808	3.8	18
133	Shape-Controlled Synthesis of Ultrafine Molybdenum Crystals via Salt-Assisted Reduction of MoO <sub>2</sub> with H <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 10231-10239	3.8	17
132	Influences of Na <sub>2</sub> O and K <sub>2</sub> O Additions on Electrical Conductivity of CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 1134-1138	2.5	17
131	Influences of Al <sub>2</sub> O <sub>3</sub> /CaO and Na <sub>2</sub> O/CaO Ratios on Viscosities of CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -Na <sub>2</sub> O Melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2014</b> , 45, 123-130	2.5	16

130	Kinetic study on carbothermic reduction of ilmenite with activated carbon. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2017</b> , 27, 1856-1861	3.3	15
129	Mechanism and kinetics of the carbothermic reduction of titanium-bearing blast furnace slag. <i>Metallurgical Research and Technology</i> , <b>2016</b> , 113, 507	0.9	15
128	Formation of Titanium Carbonitride via Carbothermic Reduction of Ilmenite Concentrate in Nitrogen Atmosphere. <i>ISIJ International</i> , <b>2016</b> , 56, 744-751	1.7	14
127	Electrolysis of Molten FeOx-Containing CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Slags under Constant Current Field. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, E314-E318	3.9	13
126	Reduction Kinetics of FeTiO <sub>3</sub> Powder by Hydrogen. <i>ISIJ International</i> , <b>2012</b> , 52, 1986-1989	1.7	13
125	Fabrication of ultrafine W-Cu composite powders and its sintering behavior. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 2154-2163	5.5	13
124	Influences of Na <sub>2</sub> O and K <sub>2</sub> O Additions on Electrical Conductivity of CaO-SiO <sub>2</sub> -(Al <sub>2</sub> O <sub>3</sub> ) Melts. <i>ISIJ International</i> , <b>2017</b> , 57, 2091-2096	1.7	12
123	Preparations of titanium nitride, titanium carbonitride and titanium carbide via a two-step carbothermic reduction method. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 277, 793-803	3.3	12
122	A Morphological Study of the Reduction of MoO <sub>2</sub> by Hydrogen. <i>High Temperature Materials and Processes</i> , <b>2015</b> , 34,	0.9	12
121	Preparation of single-crystal spherical Mo <sub>2</sub> N by temperature-programmed reaction between MoO <sub>3</sub> and NH <sub>3</sub> . <i>Journal of Solid State Chemistry</i> , <b>2017</b> , 254, 96-102	3.3	12
120	Sintering behavior of molybdenum-copper and tungsten-copper alloys by using ultrafine molybdenum and tungsten powders as raw materials. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2020</b> , 88, 105194	4.1	12
119	Preparation of Mo nanoparticles through hydrogen reduction of commercial MoO <sub>2</sub> with the assistance of molten salt. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 78, 68-75	4.1	12
118	Study on hydrogen reduction of Mo <sub>4</sub> O <sub>11</sub> . <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2015</b> , 51, 275-281	4.1	11
117	Deoxidation of Molten Steel by Aluminum. <i>Journal of Iron and Steel Research International</i> , <b>2015</b> , 22, 905-908	1.2	11
116	Preparation of Ti <sub>5</sub> Si <sub>3</sub> by silicothermic reduction of titanium-bearing blast furnace slag. <i>Canadian Metallurgical Quarterly</i> , <b>2018</b> , 57, 80-88	0.9	11
115	Electrical Conductivity and Electronic/Ionic Properties of TiO <sub>x</sub> -CaO-SiO <sub>2</sub> Slags at Various Oxygen Potentials and Temperatures. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 798-803	2.5	11
114	An industrially feasible pathway for preparation of Mo nanopowder and its sintering behavior. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 84, 105039	4.1	11
113	Study on the preparation of molybdenum silicides by the silicothermic reduction of MoS <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 728, 295-306	5.7	11

112	Modeling the Viscosity of Alumino-Silicate Melt. <i>Steel Research International</i> , <b>2013</b> , 84, 631-637	1.6	11
111	Diffusion Coefficient of Calcium Ion in CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Melts. <i>Journal of Iron and Steel Research International</i> , <b>2011</b> , 18, 13-16	1.2	11
110	Preparation and purification of titanium carbide via vacuum carbothermic reduction of ilmenite. <i>Vacuum</i> , <b>2018</b> , 151, 51-60	3.7	10
109	A novel method to synthesize submicrometer vanadium carbide by temperature programmed reaction from vanadium pentoxide and phenolic resin. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2017</b> , 62, 64-69	4.1	10
108	Electronic/Ionic Properties of Fe <sub>x</sub> O <sub>1-x</sub> SiO <sub>2</sub> -CaO-Al <sub>2</sub> O <sub>3</sub> Slags at Various Oxygen Potentials and Temperatures. <i>ISIJ International</i> , <b>2015</b> , 55, 2325-2331	1.7	10
107	Densification behavior of ultrafine W-Ni-Fe composite powders produced by a two-stage reduction process. <i>Powder Technology</i> , <b>2020</b> , 360, 430-443	5.2	10
106	Study of the Reduction of Industrial Grade MoO <sub>3</sub> Powders with CO or CO-CO <sub>2</sub> Gases to Prepare MoO <sub>2</sub> . <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 2047-2056	2.5	9
105	Size-controlled synthesis of high-purity tungsten carbide powders via a carbothermic reduction-carburization process. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 84, 104975	4.1	9
104	Preparation of refractory metal diboride powder by reducing refractory metal oxide with calcium hexaboride. <i>Ceramics International</i> , <b>2019</b> , 45, 15772-15777	5.1	9
103	Mixed Alkali Effect in Viscosity of CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -R <sub>2</sub> O melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2020</b> , 51, 985-1002	2.5	9
102	Study on reduction of MoS <sub>2</sub> powders with activated carbon to produce Mo <sub>2</sub> C under vacuum conditions. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2018</b> , 25, 405-412	3.1	9
101	Preparation of MoO <sub>2</sub> by the Solid State Reaction Between MoS <sub>2</sub> and MoO <sub>3</sub> . <i>Jom</i> , <b>2016</b> , 68, 1031-1036	2.1	9
100	Preparation of SiS and SiO <sub>2</sub> Nanospheres. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 12362-12368	3.9	9
99	Deoxidation of Liquid Steel with Molten Slag by Using Electrochemical Method. <i>ISIJ International</i> , <b>2014</b> , 54, 2767-2771	1.7	9
98	Study on reduction reaction of MoO <sub>2</sub> powder with NH <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 1368-1376	3.8	8
97	Effects of CaO/SiO <sub>2</sub> ratio and heat treatment parameters on the crystallization behavior, microstructure and properties of SiO <sub>2</sub> -CaO-Al <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O glass ceramics. <i>Journal of Non-Crystalline Solids</i> , <b>2020</b> , 538, 120023	3.9	8
96	Synthesis of High-Quality FeV55N Alloy by Carbonitrothermic Reduction of Vanadium Pentoxide-Beric Oxide Mixture. <i>Jom</i> , <b>2017</b> , 69, 1676-1681	2.1	8
95	Formation of submicrometer titanium nitride from a titanium dioxide/phenolic resin composite. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 7546-7554	4.3	7

94	Preparation of ultrafine/nano Mo particles via NaCl-assisted hydrogen reduction of different-sized MoO <sub>2</sub> powders. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 80, 243-252	4.1	7
93	A low-cost and efficient pathway for preparation of 2D MoN nanosheets via Na <sub>2</sub> CO <sub>3</sub> -assisted nitridation of MoS <sub>2</sub> with NH <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 7178-7186	3.8	7
92	A new route for preparing Mo-10wt.%Cu composite compacts. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 81, 196-205	4.1	7
91	Formation of submicrometer titanium carbide from a titanium dioxide encapsulated in phenolic resin. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 7008-7015	4.3	7
90	Effect of NaCl on synthesis of ZrB <sub>2</sub> by a borothermal reduction reaction of ZrO <sub>2</sub> . <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2019</b> , 26, 831-838	3.1	7
89	Non-isothermal reduction kinetics of titanomagnetite by hydrogen. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2013</b> , 20, 1134-1140	3.1	7
88	Pyrophoric behaviour of ultrafine Mo powder. <i>Corrosion Science</i> , <b>2017</b> , 128, 85-93	6.8	7
87	Synthesis of high purity nano-sized transition-metal carbides. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 11778-11790	5.5	7
86	Viscosity and Structure Changes of CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -CaF <sub>2</sub> Melts with Substituting Al <sub>2</sub> O <sub>3</sub> for SiO <sub>2</sub> . <i>Journal of Iron and Steel Research International</i> , <b>2016</b> , 23, 633-637	1.2	7
85	Dripping and evolution behavior of primary slag bearing TiO <sub>2</sub> through the coke packed bed in a blast-furnace hearth. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2017</b> , 24, 130-138	3.1	6
84	Preparation of Fine-Grained W-Ni-Fe Alloys by Using W Nanopowders. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 3090-3103	2.3	6
83	A facile pathway to prepare VO <sub>2</sub> and V <sub>2</sub> O <sub>3</sub> powders via a carbothermal reduction process. <i>Journal of Solid State Chemistry</i> , <b>2018</b> , 265, 299-305	3.3	6
82	Preparation of Ultrafine W-10 Wt Pct Cu Composite Powders and Their Corresponding Sintered Compacts. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 4827-4838	2.3	6
81	Nanostructured oxide dispersion strengthened Mo alloys from Mo nanopowder doping with oxide nanoparticles. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 5753-5762	5.5	6
80	Effects of R <sub>2</sub> CO <sub>3</sub> (R = Li, Na and K) on the reduction of MoO <sub>2</sub> to Mo by hydrogen. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2017</b> , 69, 180-188	4.1	6
79	Calculation of Physicochemical Properties with Limited Discrete Data in Multicomponent Systems. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2009</b> , 40, 223-232	2.5	6
78	A short and facile process to synthesize WC-Co cemented carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2020</b> , 92, 105288	4.1	6
77	A Novel Process to Synthesize High-Quality Ferrovandium Nitride. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 3405-3412	2.5	6

76	Phase evolution and reaction mechanism during reduction-nitridation process of titanium dioxide with ammonia. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 1255-1264	4.3	5
75	Preparation of high-purity and ultrafine WC-Co composite powder by a simple two-step process. <i>Advanced Powder Technology</i> , <b>2020</b> , 31, 1940-1945	4.6	5
74	Influences of Different Components on Agglomeration Behavior of MoS <sub>2</sub> During Oxidation Roasting Process in Air. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 2421-2432	2.5	5
73	Preparation of High-Quality FeV55N Using Ammonia as a Reductant and Nitrogen Source. <i>Jom</i> , <b>2018</b> , 70, 2493-2498	2.1	5
72	Preparation of high purity vanadium nitride by magnesiothermic reduction of V <sub>2</sub> O <sub>3</sub> followed by nitriding in N <sub>2</sub> atmosphere. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2019</b> , 29, 1776-1783	3.3	5
71	Morphology evolution and quantitative analysis of $\beta$ -MoO <sub>3</sub> and $\delta$ -MoO <sub>3</sub> . <i>High Temperature Materials and Processes</i> , <b>2020</b> , 39, 620-626	0.9	5
70	Topochemical synthesis of holey 2D molybdenum nitrides nanosheets via lime-assisted nitridation of layered MoS <sub>2</sub> . <i>Ceramics International</i> , <b>2020</b> , 46, 4024-4029	5.1	5
69	Fabrication of pure V <sub>2</sub> O <sub>3</sub> powders by reducing V <sub>2</sub> O <sub>5</sub> powders with CO-CO <sub>2</sub> mixed gases. <i>Ceramics International</i> , <b>2019</b> , 45, 2117-2123	5.1	5
68	Mixed alkali effect in SiO <sub>2</sub> -CaO-Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> -R <sub>2</sub> O (R = Li, Na) glass ceramics. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 856, 158239	5.7	5
67	A New Route to Produce Submicron Mo Powders via Carbothermal Pre-reduction Followed by Deep Magnesium Reduction. <i>Jom</i> , <b>2018</b> , 70, 2561-2566	2.1	5
66	Low temperature synthesis of titanium diboride nanosheets by molten salt-assisted borothermal reduction of TiO <sub>2</sub> . <i>Journal of Nanoparticle Research</i> , <b>2019</b> , 21, 1	2.3	4
65	Preparation of CaB <sub>6</sub> powder via calciothermic reduction of boron carbide. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2020</b> , 27, 37-45	3.1	4
64	Study on the reduction of commercial MoO <sub>3</sub> with carbon black to prepare MoO <sub>2</sub> and Mo <sub>2</sub> C nanoparticles. <i>International Journal of Applied Ceramic Technology</i> , <b>2020</b> , 17, 917-931	2	4
63	Preparation of Mo <sub>2</sub> C by reducing ultrafine spherical $\delta$ -MoO <sub>3</sub> powders with CO or CO-CO <sub>2</sub> gases. <i>Journal of the Australian Ceramic Society</i> , <b>2018</b> , 54, 97-107	1.5	4
62	A facile pathway to prepare ultrafine WC powder via a carbothermic pre-reduction followed by carbonization with CH <sub>4</sub> -H <sub>2</sub> mixed gases. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2020</b> , 86, 105118	4.1	4
61	A facile pathway to prepare molybdenum boride powder from molybdenum and boron carbide. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 2399-2406	3.8	4
60	Preparation of Low-Carbon and Low-Sulfur Fe-Cr-Ni-Si Alloy by Using CaSO <sub>4</sub> -Containing Stainless Steel Pickling Sludge. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2020</b> , 51, 2057-2067	2.5	4
59	Synthesis of submicrometric VB <sub>2</sub> powders by a boro-carbothermal reduction route. <i>Ceramics International</i> , <b>2019</b> , 45, 2492-2497	5.1	4

58	Novel Pathway to Prepare Mo Nanopowder via Hydrogen Reduction of MoO <sub>2</sub> Containing Mo Nanoseeds Produced by Reducing MoO <sub>3</sub> with Carbon Black. <i>Jom</i> , <b>2020</b> , 72, 347-353	2.1	4
57	Effect of atmosphere control on magnetic properties of CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> glass ceramics. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 2663-2673	6	4
56	Preparation of Vanadium Nitride by Magnesiothermic Reduction of V <sub>2</sub> O <sub>3</sub> in Nitrogen Atmosphere. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 3570-3579	2.5	4
55	Effect of ZrB <sub>2</sub> addition on microstructure evolution and mechanical properties of 93 wt.% tungsten heavy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 825, 141870	5.3	4
54	Shape-controlled Preparation of Mo Powder by Temperature-programmed Reduction of MoO <sub>3</sub> by NH <sub>3</sub> . <i>Chemistry Letters</i> , <b>2019</b> , 48, 475-478	1.7	3
53	Corrosion behavior of carbon composite brick in high alumina slags. <i>Ceramics International</i> , <b>2018</b> , 44, 5242-5249	5.1	3
52	Preparation of titanium carbide powder from ilmenite concentrate. <i>Chemical Industry and Chemical Engineering Quarterly</i> , <b>2017</b> , 23, 67-72	0.7	3
51	Microstructure and mechanical properties of Al <sub>2</sub> O <sub>3</sub> dispersed fine-grained medium heavy alloys with a superior combination of strength and ductility. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 817, 141376	5.3	3
50	Preparation technology of Ti-rich material from ilmenite via method of vacuum carbothermal reduction. <i>Canadian Metallurgical Quarterly</i> , <b>2019</b> , 58, 196-203	0.9	3
49	Preparation of Si <sub>3</sub> N <sub>4</sub> by direct nitridation using polysilicon waste by diamond wire cutting. <i>International Journal of Applied Ceramic Technology</i> , <b>2020</b> , 17, 84-93	2	3
48	Synthesis of high-quality ferrovanadium nitride by carbothermal reduction nitridation method. <i>Journal of Iron and Steel Research International</i> , <b>2021</b> , 28, 255-262	1.2	3
47	Preparation of industrial grade MoO <sub>2</sub> by the reaction between industrial grade MoO <sub>3</sub> and activated carbon. <i>Metallurgical Research and Technology</i> , <b>2018</b> , 115, 416	0.9	3
46	Low-temperature synthesis of single-phase refractory metal compound carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2021</b> , 98, 105567	4.1	3
45	A facile route to prepare ODS WCCo cemented carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2021</b> , 98, 105569	4.1	3
44	Estimation for Iron Redox Equilibria in Multicomponent Slags. <i>High Temperature Materials and Processes</i> , <b>2017</b> , 36, 567-571	0.9	2
43	Electrical Conductivities of High Aluminum Blast Furnace Slags. <i>ISIJ International</i> , <b>2019</b> , 59, 427-431	1.7	2
42	Synthesis of high-purity ultrafine tungsten and tungsten carbide powders. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2020</b> , 30, 1697-1706	3.3	2
41	Topochemical synthesis of two-dimensional molybdenum carbide (Mo <sub>2</sub> C) via Na <sub>2</sub> CO <sub>3</sub> -Assited carbothermal reduction of 2HMoS <sub>2</sub> . <i>Materials Chemistry and Physics</i> , <b>2020</b> , 244, 122713	4.4	2



40	Study on Reaction Mechanism of Reducing Dephosphorization of Fe-Ni-Si Melt by CaO-CaF <sub>2</sub> Slag. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 16-18	2.5	2
39	A novel method for preparing Ti <sub>5</sub> Si <sub>3</sub> from Ti-bearing blast furnace slag. <i>Metallurgical Research and Technology</i> , <b>2020</b> , 117, 614	0.9	2
38	Size-controlled synthesis of Mo powders via hydrogen reduction of MoO <sub>2</sub> powders with the assistance of Mo nuclei. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 1435-1443	6.7	2
37	Desulfurizer-Enhanced Carbothermal Reduction of MoS <sub>2</sub> to Synthesize Mo <sub>2</sub> C. <i>Jom</i> , <b>2020</b> , 72, 4030-4041	2.1	2
36	Reaction Behavior of SiC with CaO-Bi <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> Slag. <i>ISIJ International</i> , <b>2021</b> , 61, 745-752	1.7	2
35	A novel method for preparing ultrafine molybdenum powder. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2021</b> , 96, 105491	4.1	2
34	Thermodynamic Assessment of Liquid Mn-Fe-Si-Ca-B System by Unified Interaction Parameter Model. <i>ISIJ International</i> , <b>2016</b> , 56, 917-925	1.7	2
33	Preparation of Monophasic Tungsten boride powder from Tungsten and boron carbide. <i>Ceramics International</i> , <b>2021</b> , 47, 9543-9550	5.1	2
32	Preparation of Ultrafine Tungsten-Molybdenum Composite Powder and Its Sintering Behavior. <i>Metals and Materials International</i> , <b>2021</b> , 27, 1649-1661	2.4	2
31	Preparation of ultrafine molybdenum carbide (Mo <sub>2</sub> C) powder by carbothermic reduction of molybdenum trioxide (MoO <sub>3</sub> ). <i>Journal of the Australian Ceramic Society</i> , <b>2020</b> , 56, 1333-1340	1.5	1
30	Topochemical synthesis of one-dimensional Mo <sub>2</sub> C nanobelts. <i>Ceramics International</i> , <b>2020</b> , 46, 12891-12896	2.9	1
29	Effect of Si on Desulfurization in Fe-Si, Fe-Si-Cr-B and Fe-Si-Ni-S Melts. <i>ISIJ International</i> , <b>2020</b> , 60, 636-639	1.7	1
28	A Sulfur Emission-Free Route for the Synthesis of Mo and Mo <sub>2</sub> C via Carbothermal Reduction of MoS <sub>2</sub> . <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1	2.5	1
27	N-doped graphene supported W <sub>2</sub> C/WC as efficient electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	1
26	Preparation of nano-scaled WC powder by low-temperature carbothermic reduction method. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2022</b> , 102, 105724	4.1	1
25	A universal method for the synthesis of refractory metal diborides. <i>Ceramics International</i> , <b>2021</b> , 47, 14107-14114	1.7	1
24	CaO-Assisted Carbothermal Reduction of MoS <sub>2</sub> to Synthesize Molybdenum Powder. <i>Jom</i> , <b>2021</b> , 73, 2540-2542	2.1	1
23	Recovery of high-grade copper matte by selective sulfurization of CuO-Fe <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -CaO system. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 13, 1676-1683	5.5	1

22	Preparation of submicron Mo powders by the reaction between MoO <sub>2</sub> and activated carbon. <i>Journal of the Australian Ceramic Society</i> , <b>2019</b> , 55, 297-303	1.5	1
21	Viscosity of CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> melts containing SiC particles. <i>Ironmaking and Steelmaking</i> , <b>2019</b> , 46, 705-711	1.3	1
20	Preparation of Ultrafine W Powder via Carbothermic Prereduction of Tungsten Oxide Followed by Deep Reduction with Hydrogen. <i>Jom</i> , <b>2020</b> , 72, 379-384	2.1	1
19	Comparison of hot pressing sintering and conventional powder-sintering in preparation of CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> -R <sub>2</sub> O glass ceramics. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 564, 120829	3.9	1
18	A novel sulfur-emission free route for preparing ultrafine MoSi <sub>2</sub> powder by silicothermic reduction of MoS <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 6092	3.8	1
17	Fabrication and Mechanical Properties of Mo-Al <sub>2</sub> O <sub>3</sub> Cermets by Using Ultrafine Molybdenum and Nano-sized Alumina Powders. <i>Jom</i> , <b>2021</b> , 73, 3451	2.1	1
16	Controllable syntheses of Mo <sub>5</sub> Si <sub>3</sub> and Mo <sub>3</sub> Si by silicothermic reduction of MoS <sub>2</sub> in the presence of lime. <i>Ceramics International</i> , <b>2022</b> , 48, 7815-7826	5.1	1
15	Boronation reaction between molybdenum or tungsten powder and boron carbide in aluminium melt. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2022</b> , 105, 105813	4.1	1
14	Fabrication and Characterization of Tungsten Heavy Alloys with High W Content by Powder Metallurgy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2022</b> , 53, 1085-1098	2.3	0
13	Enhancement of the mechanical properties of ultrafine-grained WC-Co cemented carbides via the in-situ generation of VC. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 903, 163961	5.7	0
12	Study on Electrical Conductivity of CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -FeO <sub>x</sub> Slags <b>2016</b> , 1335-1342		0
11	Seeded growth synthesis of W nanoparticles in reduction process of WO <sub>2</sub> by hydrogen. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 819, 153371	5.7	0
10	Sublimation Behavior of Industrial Grade Molybdenum Trioxide. <i>Transactions of the Indian Institute of Metals</i> , <b>2021</b> , 74, 1469-1477	1.2	0
9	Preparation of fully dense and magnetically controllable CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -Na <sub>2</sub> O-Fe <sub>3</sub> O <sub>4</sub> glass ceramics by hot pressing. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 5201-5213	6	0
8	Effect of vacuum heat treatment on microstructure evolution and mechanical properties of 93W-4.9Ni-2.1Fe-(ZrB <sub>2</sub> ) alloys. <i>Powder Technology</i> , <b>2022</b> , 400, 117276	5.2	0
7	Preparation and properties of Al <sub>2</sub> O <sub>3</sub> dispersed fine-grained W-Cu alloy. <i>Advanced Powder Technology</i> , <b>2022</b> , 33, 103523	4.6	0
6	Superior strength-ductility synergy in a novel tailored Zr-based particle-strengthened medium W content alloys. <i>Composites Part B: Engineering</i> , <b>2022</b> , 236, 109817	10	0
5	Effect of molybdenum addition on microstructure and mechanical properties of 90% tungsten heavy alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2022</b> , 106, 105868	4.1	0

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