

Xuwei Lv

List of Publications by Year in descending order

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109
papers

1,921
citations

257450

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121
all docs

121
docs citations

121
times ranked

909
citing authors

#	ARTICLE	IF	CITATIONS
1	Andradite titanium: Preparation, characterization and metallurgical performance. Journal of the American Ceramic Society, 2022, 105, 2209-2220.	3.8	3
2	Homogeneous and well-aligned GaN nanowire arrays via a modified HVPE process and their cathodoluminescence properties. Nanoscale, 2022, , .	5.6	0
3	Recovery of Titania Slag and Iron from Semi-molten State Reduced Ilmenite Concentrate: Liberation Characteristics and Magnetic Separation. Journal of Sustainable Metallurgy, 2022, 8, 228-238.	2.3	4
4	Novel process for deep removal of chlorine and recycling of chlorinated tailings from titanium-bearing blast-furnace slag. Chemical Engineering Research and Design, 2022, 159, 842-849.	5.6	5
5	A Novel Process for Preparing High-Strength Pellets of Ilmenite Concentrate. Journal of Sustainable Metallurgy, 2022, 8, 551-565.	2.3	4
6	Metallurgical Slag. Crystals, 2022, 12, 407.	2.2	1
7	Periodic DFT Study on the Adsorption and Deoxygenation Process of NH ₃ on V ₂ O ₅ (001) Surface. Jom, 2022, 74, 1870-1877.	1.9	3
8	Effect of CO ₂ Gasification on High-Temperature Characteristics of Iron Coke: In-Situ Compressive Strength. Steel Research International, 2022, 93, .	1.8	2
9	Phase Equilibrium of the V ₂ O ₅ -Na ₂ O System. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 2695-2703.	2.1	1
10	P-doped MoS ₂ /Ni ₂ P/Ti ₃ C ₂ T _x heterostructures for efficient hydrogen evolution reaction in alkaline media. Journal of the American Ceramic Society, 2022, 105, 6096-6104.	3.8	5
11	Double pyrovanadates CaMgV ₂ O ₇ : Formation mechanism, phase structure, and thermodynamic properties. Journal of the American Ceramic Society, 2022, 105, 6359-6369.	3.8	2
12	Effects of operation parameters on particle mixing performance in a horizontal high shear mixer. International Journal of Chemical Reactor Engineering, 2022, 20, 1083-1094.	1.1	2
13	Effect of Preformed Calcium Ferrite Addition on Sintering Behavior of Vanadium Titanium Magnetite Ore. Jom, 2021, 73, 316-325.	1.9	10
14	A novel recycling approach for efficient extraction of titanium from high-titanium-bearing blast furnace slag. Waste Management, 2021, 120, 626-634.	7.4	64
15	Drying Kinetics of a Philippine Nickel Laterite Ore by Microwave Heating. Mineral Processing and Extractive Metallurgy Review, 2021, 42, 46-52.	5.0	11
16	Modeling Viscosity of High Titania Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 245-254.	2.1	10
17	Thermodynamic properties of sodium trititanate (Na ₂ Ti ₃ O ₇) at high temperature (298.15-1403K). Journal of the American Ceramic Society, 2021, 104, 4782-4787.	3.8	3
18	Numerical Simulation of Particle Mixing Behavior in High Speed Shear Mixer and Cylinder Mixer. ISIJ International, 2021, 61, 2059-2065.	1.4	9

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19	Tuning the Electronic Structure of the CoP/Ni ₂ P Nanostructure by Nitrogen Doping for an Efficient Hydrogen Evolution Reaction in Alkaline Media. <i>Inorganic Chemistry</i> , 2021, 60, 18544-18552.	4.0	10
20	Structure-based viscosity model development for titania aluminosilicate slags. <i>Ironmaking and Steelmaking</i> , 2020, 47, 203-209.	2.1	7
21	Influence of Ferrous Sulfide on Carbothermic Reduction of Panzhihua Ilmenite Concentrate. <i>Jom</i> , 2020, 72, 3393-3400.	1.9	4
22	Mechanism on reduction and nitridation of micrometer-sized titania with ammonia gas. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3905-3916.	3.8	18
23	Slag-foaming phenomenon originating from reaction of titanium-bearing blast furnace slag: effects of TiO ₂ content and basicity. <i>Canadian Metallurgical Quarterly</i> , 2020, 59, 151-158.	1.2	10
24	Dissolution kinetics of calcium vanadates in sulfuric acid: a fundamental study for the vanadium extraction process. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1773-1780.	3.2	2
25	Reduction and Nitridation of Iron/Vanadium Oxides by Ammonia Gas: Mechanism and Preparation of FeV45N Alloy. <i>Metals</i> , 2020, 10, 356.	2.3	8
26	Generation of titania-rich slag and iron from ilmenite concentrate by carbothermic reduction and magnetic separation in the presence of Na ₂ CO ₃ . <i>Canadian Metallurgical Quarterly</i> , 2020, 59, 393-404.	1.2	6
27	Nano-sized TiN-reinforced composites: Fabrication, microstructure, and mechanical properties. <i>Journal of Materials Research</i> , 2019, 34, 2582-2589.	2.6	2
28	Microstructure and Mechanical Properties of Graphene Oxide-Reinforced Titanium Matrix Composites Synthesized by Hot-Pressed Sintering. <i>Nanoscale Research Letters</i> , 2019, 14, 114.	5.7	15
29	A Novel Method of Smelting a Mixture of Two Types of Laterite Ore to Prepare Ferronickel. <i>Jom</i> , 2019, 71, 4191-4197.	1.9	11
30	The Effect of Titanium Carbonitride on the Viscosity of High-Titanium-Type Blast Furnace Slag. <i>Metals</i> , 2019, 9, 395.	2.3	10
31	Viscosity of Iron Oxide Aluminosilicate Melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 251-261.	2.1	17
32	Segregation and Morphological Evolution of Si Phase during Electromagnetic Directional Solidification of Hypereutectic Al-Si Alloys. <i>Materials</i> , 2019, 12, 10.	2.9	25
33	The isothermal reduction kinetics of chromium-bearing vanadium-titanium magnetite sinter. <i>Canadian Metallurgical Quarterly</i> , 2019, 58, 177-186.	1.2	3
34	First-principle study of interfacial properties between $\hat{3}$ -TiAl and TiC, VN. <i>Molecular Simulation</i> , 2019, 45, 50-57.	2.0	5
35	Non-isothermal kinetic studies on the carbothermic reduction of Panzhihua ilmenite concentrate. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , 2019, 128, 239-247.	0.2	3
36	Reduction Behavior of Aluminate Calcium Ferrite (CFA) in CO ₂ Atmosphere. <i>Steel Research International</i> , 2018, 89, 1700452.	1.8	4

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37	Transition of Blast Furnace Slag from Silicate Based to Aluminate Based: Density and Surface Tension. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1322-1330.	2.1	23
38	Improving the property of calcium ferrite using a sonochemical method. Ultrasonics Sonochemistry, 2018, 43, 110-113.	8.2	5
39	Preparation of Mo ₂ C by reduction and carbonization of MoO ₂ with CH ₃ OH. Journal of Materials Science, 2018, 53, 10059-10070.	3.7	6
40	Wetting Behavior of Calcium Ferrite Slags on Cristobalite Substrates. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1331-1345.	2.1	5
41	The wettability and interfacial characterization between \hat{I}^3 -TiAl alloy and ceramic reinforcements. Composite Interfaces, 2018, 25, 713-723.	2.3	6
42	Drying kinetics of Philippine nickel laterite by microwave heating. Drying Technology, 2018, 36, 849-858.	3.1	10
43	Mineralogical characterisation and magnetic separation of vanadium-bearing converter slag. Waste Management and Research, 2018, 36, 1083-1091.	3.9	6
44	Viscosity of TiO ₂ -FeO-Ti ₂ O ₃ -SiO ₂ -MgO-CaO-Al ₂ O ₃ for High-Titania Slag Smelting Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1963-1973.	2.1	26
45	Effect of Sodium Sulfate on Preparation of Ferronickel from Nickel Laterite by Carbothermal Reduction. ISIJ International, 2018, 58, 799-807.	1.4	16
46	Recovery of tailings from the vanadium extraction process by carbothermic reduction method: Thermodynamic, experimental and hazardous potential assessment. Journal of Hazardous Materials, 2018, 357, 128-137.	12.4	32
47	Effect of basicity on the crystallization behavior of TiO ₂ -CaO-SiO ₂ ternary system slag. CrystEngComm, 2018, 20, 5422-5431.	2.6	33
48	Solidification of Calcium Ferrite Melt Using Ultrasonic Vibration: Effect and Mechanism. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2658-2666.	2.1	3
49	The adhesion, stability, and electronic structure of \hat{I}^3 -TiAl/VN interface: a first-principle study. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	4
50	Co-recovery of iron, chromium, and vanadium from vanadium tailings by semi-molten reduction-magnetic separation process. Canadian Metallurgical Quarterly, 2018, 57, 262-273.	1.2	13
51	Wetting Behavior of TiO ₂ by Calcium Ferrite Slag at 1523 K. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2667-2680.	2.1	8
52	Solidification Behavior of Calcium Ferrite Under Ultrasonic Vibration. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3200-3210.	2.1	0
53	Transition of Blast Furnace Slag from Silicates-Based to Aluminates-Based: Viscosity. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1092-1099.	2.1	39
54	Transition of Blast Furnace Slag from Silicate-Based to Aluminate-Based: Structure Evolution by Molecular Dynamics Simulation and Raman Spectroscopy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 573-581.	2.1	36

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55	Preparation of Rutile from Ilmenite Concentrate Through Pressure Leaching with Hydrochloric Acid. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1333-1341.	2.1	15
56	Multistage utilization process for the gradient-recovery of V, Fe, and Ti from vanadium-bearing converter slag. Journal of Hazardous Materials, 2017, 336, 1-7.	12.4	75
57	Effect of ultrasonic vibration treatment on solid-state reactions between Fe ₂ O ₃ and CaO. Ultrasonics Sonochemistry, 2017, 38, 281-288.	8.2	19
58	The Dissolution Kinetics of MgO into CaO-MgO-Fe ₂ O ₃ Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 733-742.	2.1	11
59	Effect of Mechanical Activation Treatment on the Recovery of Vanadium from Converter Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2759-2767.	2.1	34
60	Transition of Blast Furnace Slag from Silicate Based to Aluminate Based: Sulfide Capacity. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2607-2614.	2.1	10
61	Mechanochemical Effects on the Roasting Behavior of Vanadium-bearing LD Converter Slag in the Air. ISIJ International, 2017, 57, 970-977.	1.4	8
62	Evaluation Model for Viscosity of Fe-Ni-Cr Alloys Using Gibbs Free Energy of Mixing and Geometric Methods. ISIJ International, 2017, 57, 1296-1302.	1.4	8
63	Effect of Silica on Reduction of Calcium Ferrite with CO-N ₂ Gas Mixtures. ISIJ International, 2017, 57, 634-642.	1.4	15
64	Reduction of CaO-Fe ₂ O ₃ Series Compounds by CO. ISIJ International, 2017, 57, 1181-1190.	1.4	13
65	Effect of TiO ₂ on the Liquid Zone and Apparent Viscosity of SiO ₂ -CaO-8wt%MgO-14wt%Al ₂ O ₃ System. ISIJ International, 2017, 57, 31-36.	1.4	31
66	Crystallization Kinetics of 2CaO-Fe ₂ O ₃ and CaO-Fe ₂ O ₃ in the CaO-Fe ₂ O ₃ System. ISIJ International, 2016, 56, 1157-1163.	1.4	17
67	Interpretation on Iron Ore Granulation Process Based on Particle-size Analysis. ISIJ International, 2016, 56, 1964-1972.	1.4	10
68	Effect of Na ₂ B ₄ O ₇ Addition on Carbothermic Reduction of Ilmenite Concentrate. ISIJ International, 2016, 56, 2140-2146.	1.4	24
69	Isothermal Reduction Kinetics of Powdered Hematite and Calcium Ferrite with CO-N ₂ Gas Mixtures. ISIJ International, 2016, 56, 2118-2125.	1.4	19
70	Enhanced Reduction of Coal-Containing Titanomagnetite Concentrates Briquette with Multiple Layers in Rotary Hearth Furnace. Steel Research International, 2016, 87, 494-500.	1.8	34
71	Desulphurisation ability of blast furnace slag containing high Al ₂ O ₃ and 5 mass% TiO ₂ at 1773 K. Ironmaking and Steelmaking, 2016, 43, 378-384.	2.1	22
72	Dissolution Kinetics of SiO ₂ into CaO-Fe ₂ O ₃ -SiO ₂ Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2063-2071.	2.1	13

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73	Non-isothermal crystallization kinetics for CaO-Fe ₂ O ₃ system. Journal of Thermal Analysis and Calorimetry, 2016, 124, 509-518.	3.6	6
74	Comprehensive Research on Basicity and Coal Dosage of Sinter Based on Cost Analysis. , 2015, , 179-186.		0
75	Wetting Behavior of Al ₂ O ₃ Substrate by Calcium Ferrite Series Melts. ISIJ International, 2015, 55, 483-490.	1.4	15
76	Wetting Behavior of Calcium Ferrite Melts on Sintered MgO. ISIJ International, 2015, 55, 1558-1564.	1.4	14
77	Effect of Cr ₂ O ₃ Addition on Viscosity and Structure of Ti-bearing Blast Furnace Slag. ISIJ International, 2015, 55, 1367-1376.	1.4	60
78	Effect of Al on the Wetting Behavior Between TiC _x and Molten Ti-Al Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4783-4792.	2.2	6
79	Viscosity evaluation of Fe-Ni-Co ternary alloy from the measured binary systems. Journal of Industrial and Engineering Chemistry, 2015, 30, 106-111.	5.8	12
80	Novel Process of Ferronickel Nugget Production from Nickel Laterite by Semi-molten State Reduction. ISIJ International, 2014, 54, 1749-1754.	1.4	47
81	Surface Tension of the Molten Blast Furnace Slag Bearing TiO ₂ : Measurement and Evaluation. ISIJ International, 2014, 54, 2154-2161.	1.4	35
82	Density of the Blast Furnace Slag Bearing TiO ₂ at 1673 K. ISIJ International, 2014, 54, 2017-2024.	1.4	12
83	Effect of Pre-wetting Treatment on the Granulation Behavior of Iron Ore Fines. ISIJ International, 2014, 54, 2721-2727.	1.4	18
84	The Dissolution Kinetics of Al ₂ O ₃ into Molten CaO-Al ₂ O ₃ -Fe ₂ O ₃ Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 2106-2117.	2.1	15
85	Kinetics of the decomposition reaction of phosphorite concentrate. Chemical Industry and Chemical Engineering Quarterly, 2014, 20, 215-221.	0.7	0
86	Direct Electro-deoxidation of Ilmenite Concentrate to Prepare FeTi Alloy in CaCl ₂ Molten Salt. High Temperature Materials and Processes, 2014, 33, 377-383.	1.4	11
87	Preparation of High-Grade Titania Slag from Ilmenite-Bearing High Ca and Mg by Vacuum Smelting Method. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 923-928.	2.1	17
88	Crystallization Behavior of Perovskite in the Synthesized High-Titanium-Bearing Blast Furnace Slag Using Confocal Scanning Laser Microscope. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 76-85.	2.1	31
89	Reduction Behavior of Panzhihua Titanomagnetite Concentrates with Coal. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 252-260.	2.1	130
90	Dry Granulation of Molten Slag using a Rotating Multi-Nozzle Cup Atomizer and Characterization of Slag Particles. Steel Research International, 2013, 84, 852-862.	1.8	19

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91	Enhancement Reduction of Panzhihua Ilmenite Concentrate with Coke and Conglomeration of Metal with Ferrosilicon. Steel Research International, 2013, 84, 892-899.	1.8	36
92	Effect of Surface Properties of Iron Ores on their Granulation Behavior. ISIJ International, 2013, 53, 1491-1496.	1.4	27
93	Effect of TiO ₂ Content on the Structure of CaO-SiO ₂ -TiO ₂ System by Molecular Dynamics Simulation. ISIJ International, 2013, 53, 1131-1137.	1.4	41
94	Influence of CaO Source on the Formation Behavior of Calcium Ferrite in Solid State. ISIJ International, 2013, 53, 1571-1579.	1.4	21
95	Carbothermic Reduction of Titanomagnetite Concentrates with Ferrosilicon Addition. ISIJ International, 2013, 53, 557-563.	1.4	49
96	Carbothermic Reduction of Vanadium Titanomagnetite by Microwave Irradiation and Smelting Behavior. ISIJ International, 2013, 53, 1115-1119.	1.4	80
97	Dephosphorization of Iron Ore Bearing High Phosphorous by Carbothermic Reduction Assisted with Microwave and Magnetic Separation. ISIJ International, 2012, 52, 1579-1584.	1.4	34
98	Mathematical Modeling on the Removal of Impurity Elements from Molten Aluminum. Mineral Processing and Extractive Metallurgy Review, 2012, 33, 1-54.	5.0	6
99	Waste Heat Recovery from Blast Furnace Slag by Chemical Reactions. Jom, 2012, 64, 997-1001.	1.9	26
100	Removal of Impurity Elements from Molten Aluminum: A Review. Mineral Processing and Extractive Metallurgy Review, 2011, 32, 150-228.	5.0	58
101	Indication of the Measurement of Surface Area on Iron Ore Granulation. ISIJ International, 2011, 51, 1432-1438.	1.4	9
102	Behavior of Liquid Phase Formation during Iron Ores Sintering. ISIJ International, 2011, 51, 722-727.	1.4	63
103	Mineral Change of Philippine and Indonesia Nickel Lateritic Ore during Sintering and Mineralogy of Their Sinter. ISIJ International, 2010, 50, 380-385.	1.4	44
104	A Novel Method for Quantifying the Composition of Mineralogical Phase in Iron Ore Sinter. ISIJ International, 2009, 49, 703-708.	1.4	7
105	Relationship between Texture Features and Mineralogy Phases in Iron Ore Sinter Based on Gray-level Co-occurrence Matrix. ISIJ International, 2009, 49, 709-718.	1.4	12
106	Relationship between Mineragraphy Features of Sinter Ore and Its Gray Histogram. ISIJ International, 2008, 48, 186-193.	1.4	8
107	Characterization on the Roughness of the Iron Ore Particles. , 0, , 123-129.		0
108	Electric Resistivity of Fine Chromite Ore. , 0, , 139-146.		0

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109	Characterisation of titania slag produced by a novel process: acidolysis performance. Canadian Metallurgical Quarterly, 0, , 1-10.	1.2	0