

Ting'an Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A new method of preparing NdB6 ultra-fine powders. <i>Rare Metals</i> , 2022, 41, 2363-2369.	7.1	1
2	Research on the oxidation characteristics of zinc sulfite in the zinc oxide desulfurization process. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 183-191.	2.2	2
3	Simultaneous separation of Fe & Al and extraction of Fe from waste coal fly ash: Altering the charge sequence of ions by electrolysis. <i>Waste Management</i> , 2022, 137, 50-60.	7.4	13
4	Extraction Separation of Ti(IV) and Fe(II) Using D2EHPA from the Raffinate Obtained After Extraction of Scandium from Titanium Dioxide Waste Acid. <i>Jom</i> , 2022, 74, 1061-1069.	1.9	3
5	Synthesis of As-Cast WCu Composite Containing Micro- and Nano-Size Tungsten Particles Using Aluminothermic Reduction. <i>Jom</i> , 2022, 74, 931.	1.9	1
6	Comprehensive Application Technology of Bauxite Residue Treatment in the Ecological Environment: A Review. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, 109, 209-214.	2.7	5
7	A Novel Method of Extracting Iron from High-Iron Red Mud and Preparing Low-Carbon Cement Clinker from Tailings. <i>Jom</i> , 2022, 74, 2750-2759.	1.9	8
8	Extraction and Utilization of Valuable Elements from Bauxite and Bauxite Residue: A Review. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, 109, 228-237.	2.7	8
9	Calcification-Carbonation Method for Bayer Red Mud Treatment: Carbonation Performance of Hydrogarnets. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, , .	2.7	0
10	In-Situ Synthesis and Characterizations of a Novel Aluminum Bronze Composite Reinforced with Micro-Size Tungsten Particles. <i>Jom</i> , 2022, 74, 4146-4153.	1.9	2
11	Progress in the Preparation of Large-Size High-Performance CuCr Alloys. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-18.	1.8	5
12	Research Progress on the Extractive Metallurgy of Titanium and Its Alloys. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2021, 42, 535-551.	5.0	16
13	Adsorption of Au(III) ions on xanthated crosslinked chitosan resin in hydrochloric acid medium. <i>Rare Metals</i> , 2021, 40, 743-748.	7.1	9
14	Multistage desulfurization mechanism to reduce sulfur content of high ferrotitanium prepared using thermite method. <i>Rare Metals</i> , 2021, 40, 2313-2319.	7.1	5
15	Separation and Extraction of Scandium from Titanium Dioxide Waste Acid. <i>Jom</i> , 2021, 73, 1301-1309.	1.9	6
16	Preparation of magnetic zeolite/chitosan composite using silane as modifier for adsorption of Cr(VI) from aqueous solutions. <i>Journal of Vinyl and Additive Technology</i> , 2021, 27, 640-654.	3.4	14
17	Mechanisms of Metal-Slag Separation Behavior in Thermite Reduction for Preparation of TiAl Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 9315-9325.	2.5	4
18	The Effect of Pyrolysis Conditions on the Preparation of Fe ₂ O ₃ Particles Using Simulated Pickling Liquor in a Venturi Reactor. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	0

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19	Thermodynamic analysis of nucleation during pyrolysis process of aluminum chloride solution. MRS Communications, 2021, 11, 679.	1.8	2
20	Pyrolysis Preparation Process of CeO ₂ with the Addition of Citric Acid: A Fundamental Study. Crystals, 2021, 11, 912.	2.2	2
21	Utilization Rate of Magnesium in Hot Metal Desulfurization by Magnesium Vapor Injection. ISIJ International, 2020, 60, 915-921.	1.4	4
22	Wet Grinding of Calcified Slag to Improve Alumina Extraction from Red Mud by the Calcification-Carbonization Method. Jom, 2020, 72, 970-977.	1.9	8
23	Dissolution Behavior of Al ₂ O ₃ Inclusions in CaO-Al ₂ O ₃ Based Slag Representing Aluminothermic Reduction Slag. Crystals, 2020, 10, 1061.	2.2	9
24	Cu ²⁺ -catalyzed mechanism in oxygen-pressure acid leaching of artificial sphalerite. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 910-923.	4.9	2
25	Effect of magnesium injection process on hot metal desulfurization. Journal of Iron and Steel Research International, 2020, 27, 1391-1399.	2.8	5
26	Clean production of porous-Al(OH) ₃ from fly ash. Journal of Hazardous Materials, 2020, 393, 122371.	12.4	15
27	Physical simulation of bubble refinement in bottom blowing process with mechanical agitation. Journal of Iron and Steel Research International, 2020, 27, 1137-1144.	2.8	5
28	Kinetics of hot metal desulfurization by bottom-blowing magnesium vapor. Journal of Iron and Steel Research International, 2020, 27, 392-401.	2.8	5
29	A perspective of stepwise utilization of hazardous zinc plant purification residue based on selective alkaline leaching of zinc. Journal of Hazardous Materials, 2020, 389, 122090.	12.4	23
30	Kinetics of carbonated decomposition of hydrogarnet with different silica saturation coefficients. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 472-482.	4.9	10
31	Preparation of Metal Lead from Waste Lead Paste by Direct Electrochemical Reduction in NH ₃ -NH ₄ Cl Solution. Jom, 2019, 71, 4518-4527.	1.9	5
32	Simulation of the Scale-up Process of a Venturi Jet Pyrolysis Reactor. Metals, 2019, 9, 979.	2.3	4
33	CFD-PBM Simulation and PIV Measurement of Liquid-Liquid Flow in a Continuous Stirring Settler. Jom, 2019, 71, 4500-4508.	1.9	2
34	An Alternative Technique for the Extraction of Valuable Elements from Fly Ash: the Carbochlorination Method. Russian Journal of Non-Ferrous Metals, 2019, 60, 52-60.	0.6	3
35	Enhanced Desilication of High Alumina Fly Ash by Combining Physical and Chemical Activation. Metals, 2019, 9, 411.	2.3	12
36	Simulation of Process and Reactor Structure Optimization for CeO ₂ Preparation from Jet-Flow Pyrolysis. Jom, 2019, 71, 1660-1666.	1.9	5

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37	Kinetics of Magnesium and Calcium Extraction from Fly Ash by Carbochlorination. <i>Jom</i> , 2019, 71, 2798-2805.	1.9	2
38	Liquidâ€“Liquid Flow in a Continuous Stirring Settler: CFD-PBM Simulation and Experimental Verification. <i>Jom</i> , 2019, 71, 1650-1659.	1.9	3
39	Numerical simulation of preparation of ultrafine cerium oxides using jet-flow pyrolysis. <i>Rare Metals</i> , 2019, 38, 1160-1168.	7.1	7
40	Numerical Simulations of Irregular CeO ₂ Particle Size Distributions. <i>Jom</i> , 2019, 71, 34-39.	1.9	3
41	Distribution and Control Mechanism of Al and O Residuals in Ferrotitanium Prepared by Aluminothermic Reduction with Insufficient Al. <i>Jom</i> , 2019, 71, 809-814.	1.9	6
42	Moderate Dilution of Copper Slag by Natural Gas. <i>Jom</i> , 2018, 70, 47-52.	1.9	19
43	Roasting Pre-Treatment of High-Sulfur Bauxite for Sulfide Removal and Digestion Performance of Roasted Ore. <i>Russian Journal of Non-Ferrous Metals</i> , 2018, 59, 493-501.	0.6	4
44	Effect of Immersion Depth of a Swirling Flow Tundish SEN on Multiphase Flow and Heat Transfer in Mold. <i>Metals</i> , 2018, 8, 910.	2.3	10
45	Process strengthening for electrochemical reduction of solid TiO ₂ to Ti in situ. <i>Rare Metals</i> , 2018, , 1.	7.1	0
46	Extraction Separation of Sc(III) and Fe(III) from a Strongly Acidic and Highly Concentrated Ferric Solution by D2EHPA/TBP. <i>Jom</i> , 2018, 70, 2837-2845.	1.9	22
47	Direct Calcificationâ€“Carbonation Method for Processing of Bayer Process Red Mud. <i>Russian Journal of Non-Ferrous Metals</i> , 2018, 59, 142-147.	0.6	8
48	Numerical Study on the Influence of a Swirling Flow Tundish on Multiphase Flow and Heat Transfer in Mold. <i>Metals</i> , 2018, 8, 368.	2.3	12
49	Preparation and properties of ultra-fine chromium carbonization of high performance mechanical activation. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 56-63.	1.0	0
50	Kinetics of indium dissolution from marmatite with high indium content in pressure acid leaching. <i>Rare Metals</i> , 2017, 36, 69-76.	7.1	21
51	A new energy-efficient and environmentally friendly process to produce magnesium. <i>Canadian Metallurgical Quarterly</i> , 2017, 56, 418-425.	1.2	13
52	Extraction of vanadium from direct acid leach solution of converter vanadium slag. <i>Canadian Metallurgical Quarterly</i> , 2017, 56, 281-293.	1.2	20
53	Numerical and Physical Study on a Cylindrical Tundish Design to Produce a Swirling Flow in the SEN During Continuous Casting of Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2695-2706.	2.1	19
54	Variation law of gas holdup in an autoclave during the pressure leaching process by using a mixed-flow agitator. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 876-883.	4.9	2

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55	PIV measurements on physical models of bottom blown oxygen copper smelting furnace. Canadian Metallurgical Quarterly, 2017, 56, 221-231.	1.2	13
56	Pressure leaching of converter vanadium slag with waste titanium dioxide. Rare Metals, 2016, 35, 576-580.	7.1	25
57	Kinetics of the Leaching Process of an Australian Gibbsite Bauxite by Hydrochloric Acid. Advances in Materials Science and Engineering, 2016, 2016, 1-6.	1.8	3
58	Phase transition of bastnaesite concentrate in calcification process. Rare Metals, 2016, 35, 649-654.	7.1	3
59	Hydrothermal conversion of Ti-containing minerals in system of $\text{Na}_2\text{O}-\text{Al}_2\text{O}_3-\text{SiO}_2-\text{CaO}-\text{TiO}_2-\text{H}_2\text{O}$. Rare Metals, 2016, 35, 495-501.	7.1	4
60	Magnesium Production by Silicothermic Reduction of Dolime in Pre-prepared Dolomite Pellets. Jom, 2016, 68, 3208-3213.	1.9	18
61	Estimation Model for Electrical Conductivity of $\text{CaF}_2-\text{CaO}-\text{Al}_2\text{O}_3$ Slags. Jom, 2016, 68, 2365-2370.	1.9	5
62	Effects of Microwave Roasting on the Kinetics of Extracting Vanadium from Vanadium Slag. Jom, 2016, 68, 577-584.	1.9	27
63	Recovery of alkali and alumina from Bayer red mud by the calcification-carbonation method. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 257-268.	4.9	35
64	Extraction of vanadium from vanadium slag by high pressure oxidative acid leaching. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 21-26.	4.9	34
65	Numerical simulation: preparation of La_2O_3 in a jet pyrolysis reactor. Rare Metals, 2015, 34, 600-606.	7.1	6
66	Process Optimization of Seed Precipitation Tank with Multiple Impellers Using Computational Fluid Dynamics. Jom, 2015, 67, 1451-1458.	1.9	9
67	Al Control in High Titanium Ferro with Low Oxygen Prepared by Thermite Reaction. , 2015, , 11-17.		0
68	Numerical simulation of fluid dynamics in rare earth chloride solution in jet-flow pyrolysis reactor. Transactions of Nonferrous Metals Society of China, 2015, 25, 997-1003.	4.2	5
69	Direct spray pyrolysis of aluminum chloride solution for alumina preparation. Journal of Central South University, 2014, 21, 4450-4455.	3.0	8
70	High-Temperature Jet Spray Reactor for the Preparation of Rare Earth Oxides by Pyrolysis: Computer Simulation. Jom, 2014, 66, 1647-1653.	1.9	2
71	Calcification-carbonation Method for Cleaner Alumina Production and CO_2 Utilization. Jom, 2014, 66, 1616-1621.	1.9	29
72	Experimental and CFD studies of solid-liquid slurry tank stirred with an improved Intermig impeller. Transactions of Nonferrous Metals Society of China, 2014, 24, 2650-2659.	4.2	31

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73	Preparation of amorphous nano-boron powder with high activity by combustion synthesis. Journal of Central South University, 2014, 21, 900-903.	3.0	9
74	Computational Fluid Dynamics (CFD) Simulations on Multiphase Flow in Mechanically Agitated Seed Precipitation Tank. Jom, 2014, 66, 1218-1226.	1.9	6
75	Mechanism of fluidized chlorination reaction of Kenya natural rutile ore. Rare Metals, 2014, 33, 485-492.	7.1	10
76	Improvement of Impeller Blade Structure for Gas Injection Refining under Mechanical Stirring. Journal of Iron and Steel Research International, 2014, 21, 135-143.	2.8	7
77	Effect of anodic potential on the characteristics of passive films grown on a brass alloy in a soil environment. Materials and Corrosion - Werkstoffe Und Korrosion, 0, , .	1.5	0
78	Effect of mechanical activation on leaching of zinc and indium from indium-bearing zinc ferrite with sulphur dioxide as leachant and reductant. Canadian Metallurgical Quarterly, 0, , 1-10.	1.2	1