Ting'an Zhang

List of Publications by Year
in descending order

60	721	567281 15	642732 23
papers	citations	h-index	g-index

60	60	60	456
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modulating Mechanical Properties of Feâ€“0.35Câ€“3.2Alâ€“5Mn Hotâ€Rolled Steel by Combining Twinningâ€Induced Plasticity plus Transformationâ€Induced Plasticity Effect. Steel Research International, 2022, 93, 2100534.	1.8	1
2	Research on the mechanism of sodium separation in bauxite residue synergy preparation of potassium-containing compound fertilizer raw materials by the hydrothermal method. Journal of Environmental Management, 2022, 317, 115359.	7.8	7
3	Preparation of Cerium Oxide via Microwave Heating: Research on Effect of Temperature Field on Particles. Crystals, 2022, 12, 843.	2.2	2
4	Progress in the Preparation of Large-Size High-Performance CuCr Alloys. Advances in Materials Science and Engineering, 2022, 2022, 1-18.	1.8	5
5	Research Progress on the Extractive Metallurgy of Titanium and Its Alloys. Mineral Processing and Extractive Metallurgy Review, 2021, 42, 535-551.	5.0	16
6	Separation and Extraction of Scandium from Titanium Dioxide Waste Acid. Jom, 2021, 73, 1301-1309.	1.9	6
7	Volatilization and condensation behavior of magnesium vapor during magnesium production via a silicothermic process with magnesite. Vacuum, 2021, 189, 110227.	3.5	10
8	Mechanisms of Metal-Slag Separation Behavior in Thermite Reduction for Preparation of TiAl Alloy. Journal of Materials Engineering and Performance, 2021, 30, 9315-9325.	2.5	4
9	Pyrolysis Preparation Process of CeO2 with the Addition of Citric Acid: A Fundamental Study. Crystals, 2021, 11, 912.	2.2	2
10	Electrochemical separation of magnesium from solutions of magnesium and lithium chloride. Hydrometallurgy, 2020, 191, 105166.	4.3	16
11	Basic study on direct preparation of lithium carbonate powders by membrane electrolysis. Hydrometallurgy, 2020, 191, 105193.	4.3	10
12	Oxygen pressure acid leaching of artificial sphalerite catalyzed by Fe3+/Fe2+ self-precipitation. Journal of Central South University, 2020, 27, 1703-1713.	3.0	2
13	Cu2+-catalyzed mechanism in oxygen-pressure acid leaching of artificial sphalerite. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 910-923.	4.9	2
14	Condensation Behavior of Magnesium Metal in Argon Gas. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 3098-3107.	2.1	5
15	Nucleation and Condensation of Magnesium Vapor in Argon Carrier. Metals, 2020, 10, 1441.	2.3	9
16	Kinetic models of zinc dissolution from artificial sphalerite with different iron contents in oxygen pressure leaching. Canadian Metallurgical Quarterly, 2020, 59, 343-359.	1.2	4
17	Mechanism of Melt Separation in Preparation of Low-Oxygen High Titanium Ferroalloy Prepared by Multistage and Deep Reduction. Metals, 2020, 10, 309.	2.3	7
18	Research on Properties of Prefabricated Pellets of Silicothermic Process After Calcination in Flowing Argon Atmosphere. Minerals, Metals and Materials Series, 2020, , 303-308.	0.4	2

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19	Numerical Simulation Study on the Preparation of Micro-Nanometer MgO Magnesium Oxide by Direct Pyrolysis of Molten MgCl2 Magnesium Chloride. Russian Journal of Non-Ferrous Metals, 2019, 60, 473-482.	0.6	0
20	The Novel Combination of Strength and Ductility in 0.4Câ€7Mnâ€3.2Al Medium Manganese Steel by Intercritical Annealing. Steel Research International, 2019, 90, 1900228.	1.8	10
21	Numerical Simulation on the Recovery Process of Acid Pickling Waste Liquor by Jet-Flow Pyrolysis. Jom, 2019, 71, 4944-4949.	1.9	3
22	Preparation of highly pure vanadyl sulfate electrolyte from vanadium slag leach solution with the complexing effect of EDTA on Fe(III). Hydrometallurgy, 2019, 188, 54-63.	4.3	18
23	Formation Mechanism and Distribution of Al and O in the Ferrotitanium with Different Ti Contents Prepared by Thermite Method. Jom, 2019, 71, 3584-3589.	1.9	11
24	Effect of swirling flow tundish submerged entry nozzle outlet design on multiphase flow and heat transfer in mould. Ironmaking and Steelmaking, 2019, 46, 911-920.	2.1	9
25	Reductive leaching of indium-bearing zinc ferrite in sulfuric acid using sulfur dioxide as a reductant. Hydrometallurgy, 2019, 186, 192-199.	4.3	15
26	Simulation of Process and Reactor Structure Optimization for CeO2 Preparation from Jet-Flow Pyrolysis. Jom, 2019, 71, 1660-1666.	1.9	5
27	Thermodynamic study on the V(V)-P(V)-H2O system in acidic leaching solution of vanadium-bearing converter slag. Separation and Purification Technology, 2019, 218, 164-172.	7.9	20
28	Oxygen content of high ferrotitanium prepared by thermite method with different melt separation temperatures. Rare Metals, 2019, 38, 892-898.	7.1	9
29	A novel continuous and controllable method for fabrication of as-cast TiAl alloy. Journal of Alloys and Compounds, 2019, 789, 266-275.	5.5	16
30	Numerical simulation of preparation of ultrafine cerium oxides using jet-flow pyrolysis. Rare Metals, 2019, 38, 1160-1168.	7.1	7
31	Numerical Simulations of Irregular CeO2 Particle Size Distributions. Jom, 2019, 71, 34-39.	1.9	3
32	Distribution and Control Mechanism of Al and O Residuals in Ferrotitanium Prepared by Aluminothermic Reduction with Insufficient Al. Jom, 2019, 71, 809-814.	1.9	6
33	Deoxidation Mechanism in Reduced Titanium Powder Prepared by Multistage Deep Reduction of TiO2. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 282-290.	2.1	12
34	Effect of microwave heating on the pressure leaching of vanadium from converter slag. Hydrometallurgy, 2019, 184, 45-54.	4.3	29
35	Sulfur distribution in preparation of high titanium ferroalloy by thermite method with different CaO additions. Rare Metals, 2019, 38, 793-799.	7.1	9
36	Feasibility study on the use of thiosulfate to remediate mercury-contaminated soil. Environmental Technology (United Kingdom), 2019, 40, 813-821.	2.2	11

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37	Recovery of alkali and alumina from bauxite residue (red mud) and complete reuse of the treated residue. Journal of Cleaner Production, 2018, 188, 456-465.	9.3	118
38	Oxidative acid leaching of mechanically activated sphalerite. Canadian Metallurgical Quarterly, 2018, 57, 59-69.	1.2	9
39	Process strengthening for electrochemical reduction of solid TiO2 to Ti in situ. Rare Metals, 2018, , 1.	7.1	0
40	Extraction Separation of Sc(III) and Fe(III) from a Strongly Acidic and Highly Concentrated Ferric Solution by D2EHPA/TBP. Jom, 2018, 70, 2837-2845.	1.9	22
41	A new method for direct synthesis of Li2CO3 powders by membrane electrolysis. Rare Metals, 2018, 37, 716-722.	7.1	6
42	Numerical Study on the Influence of a Swirling Flow Tundish on Multiphase Flow and Heat Transfer in Mold. Metals, 2018, 8, 368.	2.3	12
43	Kinetics of indium dissolution from marmatite with high indium content in pressure acid leaching. Rare Metals, 2017, 36, 69-76.	7.1	21
44	Reaction behaviors and amorphization effects of titanate species in pure substance systems relating to Bayer digestion. Hydrometallurgy, 2017, 171, 86-94.	4.3	7
45	A new energy-efficient and environmentally friendly process to produce magnesium. Canadian Metallurgical Quarterly, 2017, 56, 418-425.	1.2	13
46	Extraction of vanadium from direct acid leach solution of converter vanadium slag. Canadian Metallurgical Quarterly, 2017, 56, 281-293.	1.2	20
47	Numerical and Physical Study on a Cylindrical Tundish Design to Produce a Swirling Flow in the SEN During Continuous Casting of Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2695-2706.	2.1	19
48	Pressure leaching of converter vanadium slag with waste titanium dioxide. Rare Metals, 2016, 35, 576-580.	7.1	25
49	Hydrothermal conversion of Ti-containing minerals in system of Na2Oâ€“Al2O3â€“SiO2â€“CaOâ€“TiO2â€“H2O. Rare Metals, 2016, 35, 495-501.	7.1	4
50	Numerical simulation of flash vaporisation in alumina production. Canadian Metallurgical Quarterly, 2016, 55, 463-469.	1.2	4
51	Research on sulphur conversion and acid balance from marmatite in pressure acid leaching. Canadian Metallurgical Quarterly, 2016, 55, 438-447.	1.2	7
52	Magnesium Production by Silicothermic Reduction of Dolime in Pre-prepared Dolomite Pellets. Jom, 2016, 68, 3208-3213.	1.9	18
53	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
54	Numerical simulation: preparation of La2O3 in a jet pyrolysis reactor. Rare Metals, 2015, 34, 600-606.	7.1	6

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55	Study on Compressive Strength of Pellets for the Novel Silicothermic Process. , 2015, , 49-53.		1
56	Preparation and characterization of LaB6 ultra fine powder by combustion synthesis. Transactions of Nonferrous Metals Society of China, 2011, 21, 1790-1794.	4.2	19
57	Thermo-sensitive amphiphilic supramolecular assembly based on cyclodextrin inclusion. Journal of Colloid and Interface Science, 2010, 351, 63-68.	9.4	8
58	Pressure acid leaching of zinc sulfide concentrate. Transactions of Nonferrous Metals Society of China, 2010, 20, s136-s140.	4.2	32
59	Preparation of CuCr alloys by thermit-reduction electromagnetic stirring. International Journal of Minerals, Metallurgy, and Materials, 2007, 14, 538-542.	0.2	12
60	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