Xingli Zou

List of Publications by Year
in descending order

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101	1,890	304743	315739
papers	citations	22 h-index	38 g-index

107	107	107	1707
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on morphology engineering for highly efficient and stable hybrid perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 12842-12875.	10.3	168
2	Molten salt synthesis of porous carbon and its application in supercapacitors: A review. Journal of Energy Chemistry, 2021, 61, 622-640.	12.9	94
3	Electrodeposition of crystalline silicon films from silicon dioxide for low-cost photovoltaic applications. Nature Communications, 2019, 10, 5772.	12.8	70
4	Toward Costâ€Effective Manufacturing of Silicon Solar Cells: Electrodeposition of Highâ€Quality Si Films in a CaCl₂â€based Molten Salt. Angewandte Chemie - International Edition, 2017, 56, 15078-15082.	13.8	66
5	A direct electrochemical route from oxides to Tiâ€“Si intermetallics. Electrochimica Acta, 2010, 55, 5173-5179.	5.2	65
6	Direct selective extraction of titanium silicide Ti5Si3 from multi-component Ti-bearing compounds in molten salt by an electrochemical process. Electrochimica Acta, 2011, 56, 8430-8437.	5.2	63
7	Electrodeposition of Zn and Cuâ€“Zn alloy from ZnO/CuO precursors in deep eutectic solvent. Applied Surface Science, 2016, 385, 481-489.	6.1	58
8	Recent progress in surface modification and interfacial engineering for high-performance perovskite light-emitting diodes. Nano Energy, 2020, 73, 104752.	16.0	58
9	Electrochemical Formation of a pâ€“n Junction on Thin Film Silicon Deposited in Molten Salt. Journal of the American Chemical Society, 2017, 139, 16060-16063.	13.7	56
10	Green Electrochemical Process Solid-Oxide Oxygen-Ion-Conducting Membrane (SOM): Direct Extraction of Ti-Fe Alloys from Natural Ilmenite. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 503-512.	2.1	53
11	Designed synthesis of SiC nanowire-derived carbon with dual-scale nanostructures for supercapacitor applications. Journal of Materials Chemistry A, 2018, 6, 12724-12732.	10.3	49
12	Electrochemical extraction of Ti5Si3 silicide from multicomponent Ti/Si-containing metal oxide compounds in molten salt. Journal of Materials Chemistry A, 2014, 2, 7421.	10.3	47
13	Electrodeposition of nano-nickel in deep eutectic solvents for hydrogen evolution reaction in alkaline solution. International Journal of Hydrogen Energy, 2018, 43, 15673-15686.	7.1	46
14	Novel cobalt-free CO2-tolerant dual-phase membranes of Ce0.8Sm0.2O2â^'â€“Ba0.95La0.05Fe1â^'Zr O3â^' for oxygen separation. Journal of Membrane Science, 2015, 492, 220-229.	8.2	44
15	Direct electrosynthesis of Ti5Si3/TiC composites from their oxides/C precursors in molten calcium chloride. Electrochemistry Communications, 2012, 21, 9-13.	4.7	43
16	Electrodeposition of Ni Mo Cu coatings from roasted nickel matte in deep eutectic solvent for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2019, 44, 5704-5716.	7.1	38
17	Molten salt-promoted Niâ€“Fe/Al2O3 catalyst for methane decomposition. International Journal of Hydrogen Energy, 2020, 45, 4244-4253.	7.1	36
18	Facile electrosynthesis of silicon carbide nanowires from silica/carbon precursors in molten salt. Scientific Reports, 2017, 7, 9978.	3.3	32

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19	Electroreduction of Iron(III) Oxide Pellets to Iron in Alkaline Media: A Typical Shrinking-Core Reaction Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1262-1274.	2.1	31
20	Electrodeposition of Porous Sn-Ni-Cu Alloy Anode for Lithium-Ion Batteries from Nickel Matte in Deep Eutectic Solvents. Journal of the Electrochemical Society, 2019, 166, D427-D434.	2.9	31
21	Electrodeposition behavior and characterization of copperâ€“zinc alloy in deep eutectic solvent. Journal of Applied Electrochemistry, 2017, 47, 679-689.	2.9	27
22	Synthesis, oxygen permeability, and structural stability of BaCo0.7Fe0.3â^'xZrxO3â^'Î´ ceramic membranes. Journal of Membrane Science, 2016, 504, 251-262.	8.2	26
23	Electrodeposition of Ni-Cu alloy films from nickel matte in deep eutectic solvent. Materials Chemistry and Physics, 2019, 232, 6-15.	4.0	25
24	Voltammetric Study and Electrodeposition of Cu from CuO in Deep Eutectic Solvents. Journal of the Electrochemical Society, 2016, 163, D537-D543.	2.9	23
25	Electrochemical Production of Si without Generation of CO₂ Based on the Use of a Dimensionally Stable Anode in Molten CaCl₂. Angewandte Chemie - International Edition, 2019, 58, 16223-16228.	13.8	23
26	Continuous electrodeposition of silicon and germanium microâ€nanowires from their oxides precursors in molten salt. Journal of Energy Chemistry, 2020, 44, 147-153.	12.9	23
27	Solid oxide membrane-assisted controllable electrolytic fabrication of metal carbides in molten salt. Faraday Discussions, 2016, 190, 53-69.	3.2	22
28	Sulfation Roasting of Nickel Oxideâ€“Sulfide Mixed Ore Concentrate in the Presence of Ammonium Sulfate: Experimental and DFT Studies. Metals, 2019, 9, 1256.	2.3	21
29	Efficient electronic coupling and heterogeneous charge transport of zero-dimensional Cs₄PbBr₆ perovskite emitters. Journal of Materials Chemistry A, 2020, 8, 23803-23811.	10.3	21
30	Chemical reduction-induced surface oxygen vacancies of BiVO₄ photoanodes with enhanced photoelectrochemical performance. Sustainable Energy and Fuels, 2021, 5, 2284-2293.	4.9	21
31	Synthesis, characterization, and catalytic performance of La0.6Sr0.4NixCo1â€“xO3 perovskite catalysts in dry reforming of coke oven gas. Chinese Journal of Catalysis, 2015, 36, 915-924.	14.0	20
32	Ultra-stable 2D layered methylammonium cadmium trihalide perovskite photoelectrodes. Journal of Materials Chemistry C, 2018, 6, 11552-11560.	5.5	20
33	An integrated strategy towards the facile synthesis of core-shell SiC-derived carbon@N-doped carbon for high-performance supercapacitors. Journal of Energy Chemistry, 2021, 56, 512-521.	12.9	20
34	Plasma-implanted Ti-doped hematite photoanodes with enhanced photoelectrochemical water oxidation performance. Journal of Alloys and Compounds, 2021, 870, 159376.	5.5	20
35	Direct production of TiAl3 from Ti/Al-containing oxides precursors by solid oxide membrane (SOM) process. Journal of Alloys and Compounds, 2017, 727, 1243-1252.	5.5	19
36	Suppressing photoinduced charge recombination at the BiVO4||NiOOH junction by sandwiching an oxygen vacancy layer for efficient photoelectrochemical water oxidation. Journal of Colloid and Interface Science, 2022, 608, 1116-1125.	9.4	19

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37	Facile Electrodeposition of Iron Films from NaFeO₂and Fe₂O₃in Alkaline Solutions. Journal of the Electrochemical Society, 2015, 162, D49-D55.	2.9	17
38	Electrosynthesis of Ti3AlC2 from oxides/carbon precursor in molten calcium chloride. Journal of Alloys and Compounds, 2018, 735, 1901-1907.	5.5	17
39	Molten Salt Electrochemical Synthesis of Ternary Carbide Ti₃AlC₂ from Titaniumâ€Rich Slag. Advanced Engineering Materials, 2020, 22, 1901300.	3.5	17
40	Solid Oxide Membrane (SOM) Process for Facile Electrosynthesis of Metal Carbides and Composites. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 664-677.	2.1	15
41	Facile electrodeposition of three-dimensional flower-like structure of nickel matrix composite electrodes for hydrogen evolution reaction. Applied Surface Science, 2019, 498, 143768.	6.1	15
42	Electrochemical Reduction of TiO2/Al2O3/C to Ti3AlC2and Its Derived Two-Dimensional (2D) Carbides. Journal of the Electrochemical Society, 2018, 165, E97-E107.	2.9	14
43	Thermally Activated Delayed Phosphorescence and Interchromophore Exciton Coupling in a Platinumâ€Based Organometallic Emitter. Advanced Optical Materials, 2020, 8, 2001023.	7.3	14
44	Recent progress on post-synthetic treatments of photoelectrodes for photoelectrochemical water splitting. Journal of Materials Chemistry A, 2021, 9, 26628-26649.	10.3	14
45	A Novel Ammonium Chloride Roasting Approach for the High-Efficiency Co-sulfation of Nickel, Cobalt, and Copper in Polymetallic Sulfide Minerals. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 2769-2784.	2.1	13
46	Toward Costâ€Effective Manufacturing of Silicon Solar Cells: Electrodeposition of Highâ€Quality Si Films in a CaCl 2 â€based Molten Salt. Angewandte Chemie, 2017, 129, 15274-15278.	2.0	12
47	Electrosynthesis of Ti5Si3, Ti5Si3/TiC, and Ti5Si3/Ti3SiC2 from Ti-Bearing Blast Furnace Slag in Molten CaCl2. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 790-802.	2.1	12
48	Electrolytic production of Cu-Ni alloy from nickel matte through chlorination and deep eutectic solvent leaching-electrodeposition. Separation and Purification Technology, 2020, 242, 116779.	7.9	12
49	Growth Mechanisms and Morphology Engineering of Atomic Layer-Deposited WS₂. ACS Applied Materials & Interfaces, 2021, 13, 43115-43122.	8.0	12
50	Sustainable Synthesis of Cr7C3, Cr2AlC, and Their Derived Porous Carbons in Molten Salts. ACS Sustainable Chemistry and Engineering, 2018, 6, 16607-16615.	6.7	11
51	Molten Salt Electrosynthesis of Cr₂AlC-Derived Porous Carbon for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 12938-12947.	6.7	11
52	Porous tantalum scaffold fabricated by gel casting based on 3D printing and electrolysis. Materials Letters, 2019, 239, 5-8.	2.6	11
53	Electronic Structure and Oxidation Mechanism of Nickelâ€“Copper Converter Matte from First-Principles Calculations. ACS Omega, 2020, 5, 20090-20099.	3.5	11
54	Leaching Mechanism and Electrochemical Oxidation on the Surface of Chalcopyrite in Ammoniaâ€“Ammonium Chloride Solution. Journal of the Electrochemical Society, 2018, 165, E466-E476.	2.9	10

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55	Wafer-Scale Synthesis of WS ₂ Films with In Situ Controllable p-Type Doping by Atomic Layer Deposition. Research, 2021, 2021, 9862483.	5.7	10
56	Direct Extraction of Titanium Alloys/Composites from Titanium Compounds Ores in Molten CaCl₂. Materials Transactions, 2017, 58, 331-340.	1.2	9
57	Electrosynthesis of SiC derived porous carbon nanospheres for supercapacitors. Materials Letters, 2018, 216, 265-268.	2.6	9
58	One-step synthesis of mesoporous alumina-supported molybdenum carbide with enhanced activity for thiophene hydrodesulfurization. Journal of Environmental Chemical Engineering, 2021, 9, 105693.	6.7	9
59	Inâ€“situ XRD and EDS method study on the oxidation behaviour of Niâ€“Cu sulphide ore. Scientific Reports, 2017, 7, 3212.	3.3	8
60	CeO2-Y2O3-ZrO2 Membrane with Enhanced Molten Salt Corrosion Resistance for Solid Oxide Membrane (SOM) Electrolysis Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 678-691.	2.1	8
61	Hydrogen Production from Coke Oven Gas by CO2 Reforming Over a Novel Ni-Doped Silicalite-1. Catalysis Letters, 2018, 148, 1424-1434.	2.6	7
62	Elucidating the promotion of Na₂CO₃ in CO₂ capture by Li₄SiO₄. Physical Chemistry Chemical Physics, 2021, 23, 26696-26708.	2.8	7
63	Unraveling the dissolution mechanism of platinum and silver electrodes during composite electrodeposition in a deep eutectic solvent. Journal of Materials Chemistry A, 2020, 8, 4354-4361.	10.3	6
64	Ionic Liquids Electrodeposition of Sn with Different Structures as Anodes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, D945-D953.	2.9	5
65	Direct Electrosynthesis of Fe-TiC Composite from Natural Ilmenite in Molten Calcium Chloride. Journal of the Electrochemical Society, 2017, 164, D533-D542.	2.9	5
66	Electrosynthesis of Two-Dimensional TiC and C Materials from Ti3SiC2in Molten Salt. Journal of the Electrochemical Society, 2018, 165, D190-D195.	2.9	5
67	Electrosynthesis of Ti3AlC2-Derived Porous Carbon in Molten Salt. Jom, 2020, 72, 3887-3894.	1.9	5
68	Synergistic Preparation of Metalized Pellets Using Stainless-Steel Pickling Sludge and Blast-Furnace Bag Dust. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 1564-1582.	2.1	5
69	Revealing the different performance of Li₄SiO₄ and Ca₂SiO₄ for CO₂ adsorption by density functional theory. RSC Advances, 2022, 12, 11190-11201.	3.6	5
70	Thermodynamic assessments of ZrO2-YO1.5-TiO2 system. Ceramics International, 2021, 47, 23991-24002.	4.8	4
71	Enhanced transduction coefficient and thermal stability of 0.75BiFeO3-0.25BaTiO3 ceramics for high temperature piezoelectric energy harvesters applications. Ceramics International, 2022, 48, 16885-16891.	4.8	4
72	Electrolytic Production of Ti5Si3/TiC Composites by Solid Oxide Membrane Technology. Jom, 2018, 70, 138-143.	1.9	3

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73	Electrochemical Production of Si without Generation of CO₂ Based on the Use of a Dimensionally Stable Anode in Molten CaCl₂. Angewandte Chemie, 2019, 131, 16369-16374.	2.0	3
74	Facile Electrodeposition of Ti5Si3 Films from Oxide Precursors in Molten CaCl2. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1985-1996.	2.1	3
75	A new method to determine AgCl(1% mol)/Ag electrode potential versus the standard chloride electrode potential in a LiCl-KCl eutectic. Electrochemistry Communications, 2021, 130, 107111.	4.7	3
76	Effective Removal of Barrier Layer on the Surface of Low-Nickel Matte in an FeCl3-HCl-H2O Solution. Minerals (Basel, Switzerland), 2021, 11, 1219.	2.0	3
77	Electrodeposition of Si Films from SiO2 in Molten CaCl2-CaO: The Dissolution-Electrodeposition Mechanism and Its Epitaxial Growth Behavior. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 2800-2813.	2.1	3
78	Benefits to energy efficiency and environmental impact: general discussion. Faraday Discussions, 2016, 190, 161-204.	3.2	2
79	In-situ high temperature X-ray diffraction study on the phase transition process of polymetallic sulfide ore. IOP Conference Series: Materials Science and Engineering, 2017, 191, 012037.	0.6	2
80	Electrochemical Fabrication of Micro/Nanoporous Copper by Electrosynthesis-Dealloying of Cuâ€“Zn Alloy in Deep Eutectic Solvent. Minerals, Metals and Materials Series, 2018, , 13-20.	0.4	2
81	Thermodynamic and Dynamic Study on the Carbon Deposition on an Iron Surface in a Câ€“Hâ€“O System. Transactions of the Indian Institute of Metals, 2020, 73, 2841-2850.	1.5	2
82	Investigation of anodic dissolution and surface passivation of high-grade nickel matte in sulfuric acid solution. Jcis Open, 2021, 3, 100019.	3.2	2
83	Highly efficient oxidation of 2,2â€²-hydrazobis-isobutyronitrile to 2,2â€²-azobis-isobutyronitrile over a CrO_x/TiO₂ catalyst with hydrogen peroxide. Chemical Communications, 2021, 57, 4576-4579.	4.1	2
84	Fabrication and characterization of lightweight aggregate prepared from steel mill sludge in one step. Journal of Material Cycles and Waste Management, 2022, 24, 1072-1082.	3.0	2
85	Investigation of Coâ€“doped Ce0.8Sm0.2O2â€“Îˆâ€“Ba0.95La0.05Zr0.1Fe0.9â€“xCoxO3â€“Î´Dualâ€“phase Oxygen Transport Membranes. MATEC Web of Conferences, 2016, 67, 06001.	0.2	1
86	Hydrogen Production by Catalytic Partial Oxidation of Coke Oven Gas in BaCo0.7Fe0.3-xZrxO3-Î´Ceramic Membrane Reactors. MATEC Web of Conferences, 2016, 67, 04002.	0.2	1
87	Electrodeposition of Zn, Cu, and Zn-Cu Alloys from Deep Eutectic Solvents. , 2017, , .		1
88	Controlled Synthesis of TiC Nanoparticles Using Solid Oxide Membrane Technology in Molten CaCl2. Minerals, Metals and Materials Series, 2018, , 479-489.	0.4	1
89	TiO2 as a source of titanium. , 2021, , 429-448.		1
90	Electrochemical Preparation of Ti5Si3/TiC Composite from Titanium-Rich Slag in Molten CaCl2. Minerals, Metals and Materials Series, 2018, , 513-523.	0.4	1

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91	Electrolysis of Converter Matte in Molten CaCl₂-NaCl. Journal of Materials Science and Chemical Engineering, 2018, 06, 1-11.	0.4	1
92	Mineralogical Analysis of Nickel/Copper Polymetallic Sulfide Ore by X-Ray Diffraction Using Rietveld Method. , 2016, , 67-74.		1
93	Unraveling the Chloride Penetration Dissolution Mechanism of High-Grade Nickel Matte During Anodic Oxidation. Jom, 0, , .	1.9	1
94	Direct Electrochemical Reduction of Titanium-Bearing Compounds to Titanium-Silicon Alloys in Molten Calcium Chloride. Journal for Manufacturing Science and Production, 2013, 13, .	0.1	0
95	Production of low-cost silicon films via molten salt electrodeposition. , 2018, , .		0
96	Direct Electrolytic Production of Mo-Si-Ti-C Composites from Their Oxides/Sulfide/Carbon Mixture Precursor in Molten Salt. , 2016, , 27-34.		0
97	Recovery of Nickel and Copper from Polymetallic Sulfide Concentrate through Salt Roasting Using NH4Cl. , 2016, , 683-690.		0
98	The Effect of Anodic Potential on Surface Layers of Chalcopyrite during Ammoniaâ€“Ammonium Chloride Leaching. Minerals, Metals and Materials Series, 2018, , 1547-1554.	0.4	0
99	Mesoporous Gammaâ€Aluminaâ€Supported Mo Catalysts: Effect of Calcination Temperature. ChemistrySelect, 2022, 7, .	1.5	0
100	Surface hydroxyl groups: the key to a CrO_x/TiO₂ catalyst for efficient catalytic oxidation of 2,2â€²-hydrazine diisobutyronitrile. Reaction Chemistry and Engineering, 0, , .	3.7	0
101	Experimental and computational approaches to study the chlorination mechanism of pentlandite with ammonium chloride. RSC Advances, 2022, 12, 19232-19239.	3.6	0