

Xingli Zou

List of Publications by Year in descending order

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101
papers

1,890
citations

304602

22
h-index

315616

38
g-index

107
all docs

107
docs citations

107
times ranked

1707
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on morphology engineering for highly efficient and stable hybrid perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12842-12875.	5.2	168
2	Molten salt synthesis of porous carbon and its application in supercapacitors: A review. <i>Journal of Energy Chemistry</i> , 2021, 61, 622-640.	7.1	94
3	Electrodeposition of crystalline silicon films from silicon dioxide for low-cost photovoltaic applications. <i>Nature Communications</i> , 2019, 10, 5772.	5.8	70
4	Toward Cost-Effective Manufacturing of Silicon Solar Cells: Electrodeposition of High-Quality Si Films in a CaCl_2 -based Molten Salt. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15078-15082.	7.2	66
5	A direct electrochemical route from oxides to Ti-Si intermetallics. <i>Electrochimica Acta</i> , 2010, 55, 5173-5179.	2.6	65
6	Direct selective extraction of titanium silicide Ti_5Si_3 from multi-component Ti-bearing compounds in molten salt by an electrochemical process. <i>Electrochimica Acta</i> , 2011, 56, 8430-8437.	2.6	63
7	Electrodeposition of Zn and Cu-Zn alloy from ZnO/CuO precursors in deep eutectic solvent. <i>Applied Surface Science</i> , 2016, 385, 481-489.	3.1	58
8	Recent progress in surface modification and interfacial engineering for high-performance perovskite light-emitting diodes. <i>Nano Energy</i> , 2020, 73, 104752.	8.2	58
9	Electrochemical Formation of a p-n Junction on Thin Film Silicon Deposited in Molten Salt. <i>Journal of the American Chemical Society</i> , 2017, 139, 16060-16063.	6.6	56
10	Green Electrochemical Process Solid-Oxide Oxygen-Ion-Conducting Membrane (SOM): Direct Extraction of Ti-Fe Alloys from Natural Ilmenite. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2012, 43, 503-512.	1.0	53
11	Designed synthesis of SiC nanowire-derived carbon with dual-scale nanostructures for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12724-12732.	5.2	49
12	Electrochemical extraction of Ti_5Si_3 silicide from multicomponent Ti/Si-containing metal oxide compounds in molten salt. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7421.	5.2	47
13	Electrodeposition of nano-nickel in deep eutectic solvents for hydrogen evolution reaction in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 15673-15686.	3.8	46
14	Novel cobalt-free CO_2 -tolerant dual-phase membranes of $\text{Ce}_{0.8}\text{Sm}_{0.2}\text{O}_{2-\delta}$ - $\text{Ba}_{0.95}\text{La}_{0.05}\text{Fe}_{1-x}\text{Zr}_x\text{O}_{3-\delta}$ for oxygen separation. <i>Journal of Membrane Science</i> , 2015, 492, 220-229.	4.1	44
15	Direct electrosynthesis of $\text{Ti}_5\text{Si}_3/\text{TiC}$ composites from their oxides/C precursors in molten calcium chloride. <i>Electrochemistry Communications</i> , 2012, 21, 9-13.	2.3	43
16	Electrodeposition of Ni Mo Cu coatings from roasted nickel matte in deep eutectic solvent for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 5704-5716.	3.8	38
17	Molten salt-promoted Ni-Fe/ Al_2O_3 catalyst for methane decomposition. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4244-4253.	3.8	36
18	Facile electrosynthesis of silicon carbide nanowires from silica/carbon precursors in molten salt. <i>Scientific Reports</i> , 2017, 7, 9978.	1.6	32

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19	Electroreduction of Iron(III) Oxide Pellets to Iron in Alkaline Media: A Typical Shrinking-Core Reaction Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1262-1274.	1.0	31
20	Electrodeposition of Porous Sn-Ni-Cu Alloy Anode for Lithium-Ion Batteries from Nickel Matte in Deep Eutectic Solvents. <i>Journal of the Electrochemical Society</i> , 2019, 166, D427-D434.	1.3	31
21	Electrodeposition behavior and characterization of copper-zinc alloy in deep eutectic solvent. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 679-689.	1.5	27
22	Synthesis, oxygen permeability, and structural stability of BaCo _{0.7} Fe _{0.3} xZrxO _{3-δ} ceramic membranes. <i>Journal of Membrane Science</i> , 2016, 504, 251-262.	4.1	26
23	Electrodeposition of Ni-Cu alloy films from nickel matte in deep eutectic solvent. <i>Materials Chemistry and Physics</i> , 2019, 232, 6-15.	2.0	25
24	Voltammetric Study and Electrodeposition of Cu from CuO in Deep Eutectic Solvents. <i>Journal of the Electrochemical Society</i> , 2016, 163, D537-D543.	1.3	23
25	Electrochemical Production of Si without Generation of CO ₂ Based on the Use of a Dimensionally Stable Anode in Molten CaCl ₂ . <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16223-16228.	7.2	23
26	Continuous electrodeposition of silicon and germanium micro/nanowires from their oxides precursors in molten salt. <i>Journal of Energy Chemistry</i> , 2020, 44, 147-153.	7.1	23
27	Solid oxide membrane-assisted controllable electrolytic fabrication of metal carbides in molten salt. <i>Faraday Discussions</i> , 2016, 190, 53-69.	1.6	22
28	Sulfation Roasting of Nickel Oxide-Sulfide Mixed Ore Concentrate in the Presence of Ammonium Sulfate: Experimental and DFT Studies. <i>Metals</i> , 2019, 9, 1256.	1.0	21
29	Efficient electronic coupling and heterogeneous charge transport of zero-dimensional Cs ₄ PbBr ₆ perovskite emitters. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23803-23811.	5.2	21
30	Chemical reduction-induced surface oxygen vacancies of BiVO ₄ photoanodes with enhanced photoelectrochemical performance. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2284-2293.	2.5	21
31	Synthesis, characterization, and catalytic performance of La _{0.6} Sr _{0.4} NixCo _{1-x} O ₃ perovskite catalysts in dry reforming of coke oven gas. <i>Chinese Journal of Catalysis</i> , 2015, 36, 915-924.	6.9	20
32	Ultra-stable 2D layered methylammonium cadmium trihalide perovskite photoelectrodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11552-11560.	2.7	20
33	An integrated strategy towards the facile synthesis of core-shell SiC-derived carbon@N-doped carbon for high-performance supercapacitors. <i>Journal of Energy Chemistry</i> , 2021, 56, 512-521.	7.1	20
34	Plasma-implanted Ti-doped hematite photoanodes with enhanced photoelectrochemical water oxidation performance. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159376.	2.8	20
35	Direct production of TiAl ₃ from Ti/Al-containing oxides precursors by solid oxide membrane (SOM) process. <i>Journal of Alloys and Compounds</i> , 2017, 727, 1243-1252.	2.8	19
36	Suppressing photoinduced charge recombination at the BiVO ₄ NiOOH junction by sandwiching an oxygen vacancy layer for efficient photoelectrochemical water oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1116-1125.	5.0	19

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37	Facile Electrodeposition of Iron Films from NaFeO_2 and Fe_2O_3 in Alkaline Solutions. <i>Journal of the Electrochemical Society</i> , 2015, 162, D49-D55.	1.3	17
38	Electrosynthesis of Ti_3AlC_2 from oxides/carbon precursor in molten calcium chloride. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1901-1907.	2.8	17
39	Molten Salt Electrochemical Synthesis of Ternary Carbide Ti_3AlC_2 from Titanium-Rich Slag. <i>Advanced Engineering Materials</i> , 2020, 22, 1901300.	1.6	17
40	Solid Oxide Membrane (SOM) Process for Facile Electrosynthesis of Metal Carbides and Composites. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 664-677.	1.0	15
41	Facile electrodeposition of three-dimensional flower-like structure of nickel matrix composite electrodes for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2019, 498, 143768.	3.1	15
42	Electrochemical Reduction of $\text{TiO}_2/\text{Al}_2\text{O}_3/\text{C}$ to Ti_3AlC_2 and Its Derived Two-Dimensional (2D) Carbides. <i>Journal of the Electrochemical Society</i> , 2018, 165, E97-E107.	1.3	14
43	Thermally Activated Delayed Phosphorescence and Interchromophore Exciton Coupling in a Platinum-Based Organometallic Emitter. <i>Advanced Optical Materials</i> , 2020, 8, 2001023.	3.6	14
44	Recent progress on post-synthetic treatments of photoelectrodes for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26628-26649.	5.2	14
45	A Novel Ammonium Chloride Roasting Approach for the High-Efficiency Co-sulfation of Nickel, Cobalt, and Copper in Polymetallic Sulfide Minerals. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 2769-2784.	1.0	13
46	Toward Cost-Effective Manufacturing of Silicon Solar Cells: Electrodeposition of High-Quality Si Films in a CaCl_2 -based Molten Salt. <i>Angewandte Chemie</i> , 2017, 129, 15274-15278.	1.6	12
47	Electrosynthesis of Ti_5Si_3 , $\text{Ti}_5\text{Si}_3/\text{TiC}$, and $\text{Ti}_5\text{Si}_3/\text{Ti}_3\text{SiC}_2$ from Ti-Bearing Blast Furnace Slag in Molten CaCl_2 . <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 790-802.	1.0	12
48	Electrolytic production of Cu-Ni alloy from nickel matte through chlorination and deep eutectic solvent leaching-electrodeposition. <i>Separation and Purification Technology</i> , 2020, 242, 116779.	3.9	12
49	Growth Mechanisms and Morphology Engineering of Atomic Layer-Deposited WS_2 . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43115-43122.	4.0	12
50	Sustainable Synthesis of Cr_7C_3 , Cr_2AlC , and Their Derived Porous Carbons in Molten Salts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16607-16615.	3.2	11
51	Molten Salt Electrosynthesis of Cr_2AlC -Derived Porous Carbon for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 12938-12947.	3.2	11
52	Porous tantalum scaffold fabricated by gel casting based on 3D printing and electrolysis. <i>Materials Letters</i> , 2019, 239, 5-8.	1.3	11
53	Electronic Structure and Oxidation Mechanism of Nickel-Copper Converter Matte from First-Principles Calculations. <i>ACS Omega</i> , 2020, 5, 20090-20099.	1.6	11
54	Leaching Mechanism and Electrochemical Oxidation on the Surface of Chalcopyrite in Ammonium Chloride Solution. <i>Journal of the Electrochemical Society</i> , 2018, 165, E466-E476.	1.3	10

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55	Wafer-Scale Synthesis of WS ₂ Films with In Situ Controllable p-Type Doping by Atomic Layer Deposition. <i>Research</i> , 2021, 2021, 9862483.	2.8	10
56	Direct Extraction of Titanium Alloys/Composites from Titanium Compounds Ores in Molten CaCl ₂ . <i>Materials Transactions</i> , 2017, 58, 331-340.	0.4	9
57	Electrosynthesis of SiC derived porous carbon nanospheres for supercapacitors. <i>Materials Letters</i> , 2018, 216, 265-268.	1.3	9
58	One-step synthesis of mesoporous alumina-supported molybdenum carbide with enhanced activity for thiophene hydrodesulfurization. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105693.	3.3	9
59	In-situ XRD and EDS method study on the oxidation behaviour of Ni-Cu sulphide ore. <i>Scientific Reports</i> , 2017, 7, 3212.	1.6	8
60	CeO ₂ -Y ₂ O ₃ -ZrO ₂ Membrane with Enhanced Molten Salt Corrosion Resistance for Solid Oxide Membrane (SOM) Electrolysis Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 678-691.	1.0	8
61	Hydrogen Production from Coke Oven Gas by CO ₂ Reforming Over a Novel Ni-Doped Silicalite-1. <i>Catalysis Letters</i> , 2018, 148, 1424-1434.	1.4	7
62	Elucidating the promotion of Na ₂ CO ₃ in CO ₂ capture by Li ₄ SiO ₄ . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26696-26708.	1.3	7
63	Unraveling the dissolution mechanism of platinum and silver electrodes during composite electrodeposition in a deep eutectic solvent. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4354-4361.	5.2	6
64	Ionic Liquids Electrodeposition of Sn with Different Structures as Anodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, D945-D953.	1.3	5
65	Direct Electrosynthesis of Fe-TiC Composite from Natural Ilmenite in Molten Calcium Chloride. <i>Journal of the Electrochemical Society</i> , 2017, 164, D533-D542.	1.3	5
66	Electrosynthesis of Two-Dimensional TiC and C Materials from Ti ₃ SiC ₂ in Molten Salt. <i>Journal of the Electrochemical Society</i> , 2018, 165, D190-D195.	1.3	5
67	Electrosynthesis of Ti ₃ AlC ₂ -Derived Porous Carbon in Molten Salt. <i>Jom</i> , 2020, 72, 3887-3894.	0.9	5
68	Synergistic Preparation of Metalized Pellets Using Stainless-Steel Pickling Sludge and Blast-Furnace Bag Dust. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 1564-1582.	1.0	5
69	Revealing the different performance of Li ₄ SiO ₄ and Ca ₂ SiO ₄ for CO ₂ adsorption by density functional theory. <i>RSC Advances</i> , 2022, 12, 11190-11201.	1.7	5
70	Thermodynamic assessments of ZrO ₂ -YO _{1.5} -TiO ₂ system. <i>Ceramics International</i> , 2021, 47, 23991-24002.	2.3	4
71	Enhanced transduction coefficient and thermal stability of 0.75BiFeO ₃ -0.25BaTiO ₃ ceramics for high temperature piezoelectric energy harvesters applications. <i>Ceramics International</i> , 2022, 48, 16885-16891.	2.3	4
72	Electrolytic Production of Ti ₅ Si ₃ /TiC Composites by Solid Oxide Membrane Technology. <i>Jom</i> , 2018, 70, 138-143.	0.9	3

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73	Electrochemical Production of Si without Generation of CO ₂ Based on the Use of a Dimensionally Stable Anode in Molten CaCl ₂ . <i>Angewandte Chemie</i> , 2019, 131, 16369-16374.	1.6	3
74	Facile Electrodeposition of Ti ₅ Si ₃ Films from Oxide Precursors in Molten CaCl ₂ . <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 1985-1996.	1.0	3
75	A new method to determine AgCl(1% mol)/Ag electrode potential versus the standard chloride electrode potential in a LiCl-KCl eutectic. <i>Electrochemistry Communications</i> , 2021, 130, 107111.	2.3	3
76	Effective Removal of Barrier Layer on the Surface of Low-Nickel Matte in an FeCl ₃ -HCl-H ₂ O Solution. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1219.	0.8	3
77	Electrodeposition of Si Films from SiO ₂ in Molten CaCl ₂ -CaO: The Dissolution-Electrodeposition Mechanism and Its Epitaxial Growth Behavior. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 2800-2813.	1.0	3
78	Benefits to energy efficiency and environmental impact: general discussion. <i>Faraday Discussions</i> , 2016, 190, 161-204.	1.6	2
79	In-situ high temperature X-ray diffraction study on the phase transition process of polymetallic sulfide ore. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 191, 012037.	0.3	2
80	Electrochemical Fabrication of Micro/Nanoporous Copper by Electrosynthesis-Dealloying of Cu-Zn Alloy in Deep Eutectic Solvent. <i>Minerals, Metals and Materials Series</i> , 2018, , 13-20.	0.3	2
81	Thermodynamic and Dynamic Study on the Carbon Deposition on an Iron Surface in a C-H-O System. <i>Transactions of the Indian Institute of Metals</i> , 2020, 73, 2841-2850.	0.7	2
82	Investigation of anodic dissolution and surface passivation of high-grade nickel matte in sulfuric acid solution. <i>Jcis Open</i> , 2021, 3, 100019.	1.5	2
83	Highly efficient oxidation of 2,2-hydrazobis-isobutyronitrile to 2,2-azobis-isobutyronitrile over a CrO _x /TiO ₂ catalyst with hydrogen peroxide. <i>Chemical Communications</i> , 2021, 57, 4576-4579.	2.2	2
84	Fabrication and characterization of lightweight aggregate prepared from steel mill sludge in one step. <i>Journal of Material Cycles and Waste Management</i> , 2022, 24, 1072-1082.	1.6	2
85	Investigation of Co-doped Ce _{0.8} Sm _{0.2} O ₂ -Ba _{0.95} La _{0.05} Zr _{0.1} Fe _{0.9} -xCo _x O ₃ Dual-phase Oxygen Transport Membranes. <i>MATEC Web of Conferences</i> , 2016, 67, 06001.	0.1	1
86	Hydrogen Production by Catalytic Partial Oxidation of Coke Oven Gas in BaCo _{0.7} Fe _{0.3-x} Zr _x O _{3-δ} Ceramic Membrane Reactors. <i>MATEC Web of Conferences</i> , 2016, 67, 04002.	0.1	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 CaCl ₂ . <i>Minerals, Metals and Materials Series</i> , 2018, , 479-489.	0.3	1
89	TiO ₂ as a source of titanium. , 2021, , 429-448.		1
90	Electrochemical Preparation of Ti ₅ Si ₃ /TiC Composite from Titanium-Rich Slag in Molten CaCl ₂ . <i>Minerals, Metals and Materials Series</i> , 2018, , 513-523.	0.3	1

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91	Electrolysis of Converter Matte in Molten $\text{CaCl}_2\text{-NaCl}$. Journal of Materials Science and Chemical Engineering, 2018, 06, 1-11.	0.2	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, , .	0.9	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 NH_4Cl . , 2016, , 683-690.		0
98	The Effect of Anodic Potential on Surface Layers of Chalcopyrite during Ammonia- Ammonium Chloride Leaching. Minerals, Metals and Materials Series, 2018, , 1547-1554.	0.3	0
99	Mesoporous Gamma- Alumina -Supported Mo Catalysts: Effect of Calcination Temperature. ChemistrySelect, 2022, 7, .	0.7	0
100	Surface hydroxyl groups: the key to a $\text{CrO}_x/\text{TiO}_2$ catalyst for efficient catalytic oxidation of 2,2-hydrazine diisobutyronitrile. Reaction Chemistry and Engineering, 0, , .	1.9	0
101	Experimental and computational approaches to study the chlorination mechanism of pentlandite with ammonium chloride. RSC Advances, 2022, 12, 19232-19239.	1.7	0