

# 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  
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107  
all docs

107  
docs citations

107  
times ranked

1707  
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppressing photoinduced charge recombination at the BiVO <sub>4</sub>   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
2	Mesoporous Gamma- $\gamma$ -Alumina-Supported Mo Catalysts: Effect of Calcination Temperature. <i>ChemistrySelect</i> , 2022, 7, .	0.7	0
3	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
4	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
5	Enhanced transduction coefficient and thermal stability of 0.75BiFeO <sub>3</sub> -0.25BaTiO <sub>3</sub> ceramics for high temperature piezoelectric energy harvesters applications. <i>Ceramics International</i> , 2022, 48, 16885-16891.	2.3	4
6	Revealing the different performance of Li <sub>4</sub> SiO <sub>4</sub> and Ca <sub>2</sub> SiO <sub>4</sub> for CO <sub>2</sub> adsorption by density functional theory. <i>RSC Advances</i> , 2022, 12, 11190-11201.	1.7	5
7	Electrodeposition of Si Films from SiO <sub>2</sub> in Molten CaCl <sub>2</sub> -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
8	Experimental and computational approaches to study the chlorination mechanism of pentlandite with ammonium chloride. <i>RSC Advances</i> , 2022, 12, 19232-19239.	1.7	0
9	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
10	TiO <sub>2</sub> as a source of titanium. , 2021, , 429-448.		1
11	Facile Electrodeposition of Ti <sub>5</sub> Si <sub>3</sub> Films from Oxide Precursors in Molten CaCl <sub>2</sub> . <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 1985-1996.	1.0	3
12	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
13	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
14	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
15	Thermodynamic assessments of ZrO <sub>2</sub> -YO <sub>1.5</sub> -TiO <sub>2</sub> system. <i>Ceramics International</i> , 2021, 47, 23991-24002.	2.3	4
16	Growth Mechanisms and Morphology Engineering of Atomic Layer-Deposited WS <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 43115-43122.	4.0	12
17	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
18	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

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19	Highly efficient oxidation of 2,2-azobis-isobutyronitrile to 2-azobis-isobutyronitrile over a CrO <sub>x</sub> /TiO <sub>2</sub> catalyst with hydrogen peroxide. <i>Chemical Communications</i> , 2021, 57, 4576-4579.	2.2	2
20	Chemical reduction-induced surface oxygen vacancies of BiVO <sub>4</sub> photoanodes with enhanced photoelectrochemical performance. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2284-2293.	2.5	21
21	Effective Removal of Barrier Layer on the Surface of Low-Nickel Matte in an FeCl <sub>3</sub> -HCl-H <sub>2</sub> O Solution. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1219.	0.8	3
22	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
23	Elucidating the promotion of Na <sub>2</sub> CO <sub>3</sub> in CO <sub>2</sub> capture by Li <sub>4</sub> SiO <sub>4</sub> . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26696-26708.	1.3	7
24	Wafer-Scale Synthesis of WS <sub>2</sub> Films with In Situ Controllable p-Type Doping by Atomic Layer Deposition. <i>Research</i> , 2021, 2021, 9862483.	2.8	10
25	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
26	Molten salt-promoted Ni-Fe/Al <sub>2</sub> O <sub>3</sub> catalyst for methane decomposition. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4244-4253.	3.8	36
27	Efficient electronic coupling and heterogeneous charge transport of zero-dimensional Cs <sub>4</sub> PbBr <sub>6</sub> perovskite emitters. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23803-23811.	5.2	21
28	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
29	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
30	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
31	Electrosynthesis of Ti <sub>3</sub> AlC <sub>2</sub> -Derived Porous Carbon in Molten Salt. <i>Jom</i> , 2020, 72, 3887-3894.	0.9	5
32	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
33	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
34	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
35	Molten Salt Electrochemical Synthesis of Ternary Carbide Ti <sub>3</sub> AlC <sub>2</sub> from Titanium-Rich Slag. <i>Advanced Engineering Materials</i> , 2020, 22, 1901300.	1.6	17
36	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

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37	Molten Salt Electrosynthesis of Cr <sub>2</sub> AlC-Derived Porous Carbon for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 12938-12947.	3.2	11
38	Electrochemical Production of Si without Generation of CO <sub>2</sub> Based on the Use of a Dimensionally Stable Anode in Molten CaCl <sub>2</sub> . Angewandte Chemie, 2019, 131, 16369-16374.	1.6	3
39	Electrochemical Production of Si without Generation of CO <sub>2</sub> Based on the Use of a Dimensionally Stable Anode in Molten CaCl <sub>2</sub> . Angewandte Chemie - International Edition, 2019, 58, 16223-16228.	7.2	23
40	Facile electrodeposition of three-dimensional flower-like structure of nickel matrix composite electrodes for hydrogen evolution reaction. Applied Surface Science, 2019, 498, 143768.	3.1	15
41	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.	1.3	31
42	Electrodeposition of Ni-Cu alloy films from nickel matte in deep eutectic solvent. Materials Chemistry and Physics, 2019, 232, 6-15.	2.0	25
43	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.	3.8	38
44	Electrodeposition of crystalline silicon films from silicon dioxide for low-cost photovoltaic applications. Nature Communications, 2019, 10, 5772.	5.8	70
45	Sulfation Roasting of Nickel Oxide-Sulfide Mixed Ore Concentrate in the Presence of Ammonium Sulfate: Experimental and DFT Studies. Metals, 2019, 9, 1256.	1.0	21
46	Porous tantalum scaffold fabricated by gel casting based on 3D printing and electrolysis. Materials Letters, 2019, 239, 5-8.	1.3	11
47	Hydrogen Production from Coke Oven Gas by CO <sub>2</sub> Reforming Over a Novel Ni-Doped Silicalite-1. Catalysis Letters, 2018, 148, 1424-1434.	1.4	7
48	Electrochemical Fabrication of Micro/Nanoporous Copper by Electrosynthesis-Dealloying of Cu-Zn Alloy in Deep Eutectic Solvent. Minerals, Metals and Materials Series, 2018, , 13-20.	0.3	2
49	Electrochemical Reduction of TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /C to Ti <sub>3</sub> AlC <sub>2</sub> and Its Derived Two-Dimensional (2D) Carbides. Journal of the Electrochemical Society, 2018, 165, E97-E107.	1.3	14
50	Electrosynthesis of Ti <sub>5</sub> Si <sub>3</sub> , Ti <sub>5</sub> Si <sub>3</sub> /TiC, and Ti <sub>5</sub> Si <sub>3</sub> /Ti <sub>3</sub> SiC <sub>2</sub> from Ti-Bearing Blast Furnace Slag in Molten CaCl <sub>2</sub> . Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 790-802.	1.0	12
51	Controlled Synthesis of TiC Nanoparticles Using Solid Oxide Membrane Technology in Molten CaCl <sub>2</sub> . Minerals, Metals and Materials Series, 2018, , 479-489.	0.3	1
52	Electrosynthesis of Ti <sub>3</sub> AlC <sub>2</sub> from oxides/carbon precursor in molten calcium chloride. Journal of Alloys and Compounds, 2018, 735, 1901-1907.	2.8	17
53	Electrosynthesis of Two-Dimensional TiC and C Materials from Ti <sub>3</sub> SiC <sub>2</sub> in Molten Salt. Journal of the Electrochemical Society, 2018, 165, D190-D195.	1.3	5
54	Electrolytic Production of Ti <sub>5</sub> Si <sub>3</sub> /TiC Composites by Solid Oxide Membrane Technology. Jom, 2018, 70, 138-143.	0.9	3

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55	Electrosynthesis of SiC derived porous carbon nanospheres for supercapacitors. <i>Materials Letters</i> , 2018, 216, 265-268.	1.3	9
56	Production of low-cost silicon films via molten salt electrodeposition. , 2018, , .		0
57	Sustainable Synthesis of Cr <sub>7</sub> C <sub>3</sub> , Cr <sub>2</sub> AlC, and Their Derived Porous Carbons in Molten Salts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16607-16615.	3.2	11
58	Ultra-stable 2D layered methylammonium cadmium trihalide perovskite photoelectrodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11552-11560.	2.7	20
59	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
60	Leaching Mechanism and Electrochemical Oxidation on the Surface of Chalcopyrite in Ammonia- <sup>+</sup> Ammonium Chloride Solution. <i>Journal of the Electrochemical Society</i> , 2018, 165, E466-E476.	1.3	10
61	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
62	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
63	Electrochemical Preparation of Ti <sub>5</sub> Si <sub>3</sub> /TiC Composite from Titanium-Rich Slag in Molten CaCl <sub>2</sub> . <i>Minerals, Metals and Materials Series</i> , 2018, , 513-523.	0.3	1
64	Electrolysis of Converter Matte in Molten CaCl <sub>2</sub> -NaCl. <i>Journal of Materials Science and Chemical Engineering</i> , 2018, 06, 1-11.	0.2	1
65	The Effect of Anodic Potential on Surface Layers of Chalcopyrite during Ammonia- <sup>+</sup> Ammonium Chloride Leaching. <i>Minerals, Metals and Materials Series</i> , 2018, , 1547-1554.	0.3	0
66	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
67	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
68	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
69	Direct production of TiAl <sub>3</sub> 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
70	Toward Cost-Effective Manufacturing of Silicon Solar Cells: Electrodeposition of High-Quality Si Films in a CaCl <sub>2</sub> -based Molten Salt. <i>Angewandte Chemie</i> , 2017, 129, 15274-15278.	1.6	12
71	Toward Cost-Effective Manufacturing of Silicon Solar Cells: Electrodeposition of High-Quality Si Films in a CaCl <sub>2</sub> -based Molten Salt. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15078-15082.	7.2	66
72	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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73	In-situ XRD and EDS method study on the oxidation behaviour of Ni-Cu sulphide ore. Scientific Reports, 2017, 7, 3212.	1.6	8
74	Ionic Liquids Electrodeposition of Sn with Different Structures as Anodes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, D945-D953.	1.3	5
75	Electrochemical Formation of a p-n Junction on Thin Film Silicon Deposited in Molten Salt. Journal of the American Chemical Society, 2017, 139, 16060-16063.	6.6	56
76	Direct Electrosynthesis of Fe-TiC Composite from Natural Ilmenite in Molten Calcium Chloride. Journal of the Electrochemical Society, 2017, 164, D533-D542.	1.3	5
77	CeO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> 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.	1.0	8
78	Electrodeposition of Zn, Cu, and Zn-Cu Alloys from Deep Eutectic Solvents. , 2017, , .		1
79	Direct Extraction of Titanium Alloys/Composites from Titanium Compounds Ores in Molten CaCl <sub>2</sub> . Materials Transactions, 2017, 58, 331-340.	0.4	9
80	Investigation of Co-doped Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>2</sub> -Ba <sub>0.95</sub> La <sub>0.05</sub> Zr <sub>0.1</sub> Fe <sub>0.9</sub> xCo <sub>x</sub> O <sub>3</sub> Dual-phase Oxygen Transport Membranes. MATEC Web of Conferences, 2016, 67, 06001.	0.1	1
81	Hydrogen Production by Catalytic Partial Oxidation of Coke Oven Gas in BaCo <sub>0.7</sub> Fe <sub>0.3</sub> -xZrO <sub>3</sub> Ceramic Membrane Reactors. MATEC Web of Conferences, 2016, 67, 04002.	0.1	1
82	Voltammetric Study and Electrodeposition of Cu from CuO in Deep Eutectic Solvents. Journal of the Electrochemical Society, 2016, 163, D537-D543.	1.3	23
83	Benefits to energy efficiency and environmental impact: general discussion. Faraday Discussions, 2016, 190, 161-204.	1.6	2
84	Electrodeposition of Zn and Cu-Zn alloy from ZnO/CuO precursors in deep eutectic solvent. Applied Surface Science, 2016, 385, 481-489.	3.1	58
85	Solid oxide membrane-assisted controllable electrolytic fabrication of metal carbides in molten salt. Faraday Discussions, 2016, 190, 53-69.	1.6	22
86	Synthesis, oxygen permeability, and structural stability of BaCo <sub>0.7</sub> Fe <sub>0.3</sub> -xZrO <sub>3</sub> ceramic membranes. Journal of Membrane Science, 2016, 504, 251-262.	4.1	26
87	Direct Electrolytic Production of Mo-Si-Ti-C Composites from Their Oxides/Sulfide/Carbon Mixture Precursor in Molten Salt. , 2016, , 27-34.		0
88	Recovery of Nickel and Copper from Polymetallic Sulfide Concentrate through Salt Roasting Using NH <sub>4</sub> Cl. , 2016, , 683-690.		0
89	Mineralogical Analysis of Nickel/Copper Polymetallic Sulfide Ore by X-Ray Diffraction Using Rietveld Method. , 2016, , 67-74.		1
90	Synthesis, characterization, and catalytic performance of La <sub>0.6</sub> Sr <sub>0.4</sub> Ni <sub>x</sub> Co <sub>1-x</sub> O <sub>3</sub> perovskite catalysts in dry reforming of coke oven gas. Chinese Journal of Catalysis, 2015, 36, 915-924.	6.9	20

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91	Novel cobalt-free CO <sub>2</sub> -tolerant dual-phase membranes of Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>2-δ</sub> –Ba <sub>0.95</sub> La <sub>0.05</sub> Fe <sub>1-x</sub> Zr <sub>3x</sub> O <sub>3</sub> for oxygen separation. <i>Journal of Membrane Science</i> , 2015, 492, 220-229.	4.1	44
92	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
93	Facile Electrodeposition of Iron Films from NaFeO <sub>2</sub> and Fe <sub>2</sub> O <sub>3</sub> in Alkaline Solutions. <i>Journal of the Electrochemical Society</i> , 2015, 162, D49-D55.	1.3	17
94	Electrochemical extraction of Ti <sub>5</sub> Si <sub>3</sub> 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
95	Direct Electrochemical Reduction of Titanium-Bearing Compounds to Titanium-Silicon Alloys in Molten Calcium Chloride. <i>Journal for Manufacturing Science and Production</i> , 2013, 13, .	0.1	0
96	Direct electrosynthesis of Ti <sub>5</sub> Si <sub>3</sub> /TiC composites from their oxides/C precursors in molten calcium chloride. <i>Electrochemistry Communications</i> , 2012, 21, 9-13.	2.3	43
97	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
98	Direct selective extraction of titanium silicide Ti <sub>5</sub> Si <sub>3</sub> from multi-component Ti-bearing compounds in molten salt by an electrochemical process. <i>Electrochimica Acta</i> , 2011, 56, 8430-8437.	2.6	63
99	A direct electrochemical route from oxides to Ti–Si intermetallics. <i>Electrochimica Acta</i> , 2010, 55, 5173-5179.	2.6	65
100	Unraveling the Chloride Penetration Dissolution Mechanism of High-Grade Nickel Matte During Anodic Oxidation. <i>Jom</i> , 0, .	0.9	1
101	Surface hydroxyl groups: the key to a CrO <sub>2</sub> /TiO <sub>2</sub> catalyst for efficient catalytic oxidation of 2,2-hydrazine diisobutyronitrile. <i>Reaction Chemistry and Engineering</i> , 0, .	1.9	0