

# Wenjun Zheng

## List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Controllable Synthesis of a Loofah-Like Cobalt–Nickel Selenide Network as an Efficient Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 8963-8973.	4.0	8
2	Ionic liquid-hydroxide-mediated low-temperature synthesis of high-entropy perovskite oxide nanoparticles. <i>Nanoscale</i> , 2022, 14, 7817-7827.	2.8	6
3	Enhanced Oxygen Evolution Catalytic Activity of Ni <sub>3</sub> Mo <sub>3</sub> N-MoO <sub>2</sub> -NiO Nanoparticles via Synergistic Effect. <i>Energy &amp; Fuels</i> , 2022, 36, 4902-4910.	2.5	8
4	Fe-doped Nickel Carbonate Hydroxide Array Electrocatalysts for Enhanced Oxygen Evolution Reaction. <i>ChemistrySelect</i> , 2022, 7, .	0.7	1
5	Application of ionic liquids in inorganic synthesis. , 2021, , 105-128.		1
6	MoS <sub>2</sub> Nanotubes via Ionic-Liquid-Assisted Assembly of MoS <sub>2</sub> Nanosheets for Lithium Storage. <i>ACS Applied Nano Materials</i> , 2021, 4, 3397-3405.	2.4	13
7	Synergistic Effects of Tungsten Doping and Sulfur Vacancies in MoS <sub>2</sub> on Enhancement of Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11369-11379.	1.5	17
8	Fabrication of heterogeneous interface and phosphorus doping in MoS <sub>2</sub> for efficient hydrogen evolution in both acid and alkaline electrolytes. <i>Electrochimica Acta</i> , 2021, 385, 138429.	2.6	6
9	Ionothermal synthesis of three-dimensional hierarchical Ni <sub>3</sub> Se <sub>2</sub> mesoporous nanosheet networks with enhanced performance for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 797-809.	5.2	29
10	Design and Synthesis of a Reduced Graphene Oxide/Patronite Composite with Enhanced Lithium-Ion Storage Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 5775-5785.	4.0	8
11	Red phosphorus as self-template to hierarchical nanoporous nickel phosphides toward enhanced electrocatalytic activity for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2020, 332, 135500.	2.6	20
12	Copper Telluride Nanosheet/Cu Foil Electrode: Facile Ionic Liquid-Assisted Synthesis and Efficient Oxygen Evolution Performance. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22117-22126.	1.5	15
13	Controllable synthesis of NiSe/MoSe <sub>2</sub> /MoO <sub>2</sub> 3D hierarchical hollow microspheres with enhanced performance for asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 387, 124121.	6.6	36
14	Ionic Liquid–Controlled Growth of NiCo <sub>2</sub> S <sub>4</sub> 3D Hierarchical Hollow Nanoarrow Arrays on Ni Foam for Superior Performance Binder Free Hybrid Supercapacitors. <i>Small</i> , 2019, 15, e1804318.	5.2	84
15	Controlled synthesis of Ni <sub>3</sub> C/nitrogen-doped carbon nanoflakes for efficient oxygen evolution. <i>Electrochimica Acta</i> , 2019, 320, 134631.	2.6	25
16	Novel ultralong hollow hyperbranched Cu <sub>2</sub> xSe with nanosheets hierarchical structure: Preparation, formation mechanism and properties. <i>Journal of Alloys and Compounds</i> , 2019, 802, 430-436.	2.8	10
17	Preparation of mesoporous ZnAl <sub>2</sub> O <sub>4</sub> nanoflakes by ion exchange from a Na-dawsonite parent material in the presence of an ionic liquid. <i>RSC Advances</i> , 2019, 9, 11894-11900.	1.7	4
18	Synthesis of copper-cobalt hybrid oxide microflowers as electrode material for supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 343, 331-339.	6.6	67

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19	A combination of decomposition method to synthesize two-dimensional metal sulfide-amine hybrid nanosheets: a highly efficient Fe-based water oxidation electrocatalyst. <i>Chemical Communications</i> , 2018, 54, 4617-4620.	2.2	11
20	Ionic liquid bifunctionally modulated aggregation-coalescence mechanism to synthesize SnSe single-crystal nanorod/nanoparticle core shell nanostructures and single-crystal nanorods for optoelectronics. <i>CrystEngComm</i> , 2018, 20, 1141-1150.	1.3	10
21	Ni/Ni <sub>3</sub> C Core/Shell Hierarchical Nanospheres with Enhanced Electrocatalytic Activity for Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17827-17834.	4.0	65
22	One-pot synthesis of highly stable carbon-MoS <sub>2</sub> nanosphere electrodes using a co-growth mechanism for supercapacitors. <i>New Journal of Chemistry</i> , 2018, 42, 10111-10117.	1.4	16
23	Doping and transformation mechanisms of Fe <sup>3+</sup> ions in Fe-doped TiO <sub>2</sub> . <i>CrystEngComm</i> , 2017, 19, 1100-1105.	1.3	30
24	One-step extended strategy for the ionic liquid-assisted synthesis of Ni <sub>3</sub> S <sub>4</sub> -MoS <sub>2</sub> heterojunction electrodes for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11278-11285.	5.2	103
25	Tensile force-induced tearing and collapse of ultrathin carbon shells to surface-wrinkled grape skins for high performance supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14190-14197.	5.2	22
26	TiO <sub>2</sub> -Pd/C composited photocatalyst with improved photocatalytic activity for photoreduction of CO <sub>2</sub> into CH <sub>4</sub> . <i>New Journal of Chemistry</i> , 2017, 41, 3204-3210.	1.4	21
27	Ionic liquid-assisted synthesis of Cu <sub>7</sub> Te <sub>4</sub> ultrathin nanosheets with enhanced electrocatalytic activity for water oxidation. <i>Nano Energy</i> , 2017, 41, 780-787.	8.2	42
28	The band structure and photocatalytic mechanism for a CeO <sub>2</sub> -modified C <sub>3</sub> N <sub>4</sub> photocatalyst. <i>New Journal of Chemistry</i> , 2017, 41, 9724-9730.	1.4	29
29	Facile synthesis of 3D flower-like Cu <sub>2</sub> Se nanostructures via a sacrificing template method and their excellent antibacterial activities. <i>CrystEngComm</i> , 2017, 19, 7253-7259.	1.3	11
30	Graphitic Carbon Coated CuO Hollow Nanospheres with Penetrated Mesochannels for High-Performance Asymmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 105-111.	3.2	42
31	Ionic liquid-assisted solvothermal synthesis of three-dimensional hierarchical copper sulfide microflowers at a low temperature with enhanced photocatalytic performance. <i>CrystEngComm</i> , 2016, 18, 6245-6253.	1.3	10
32	Controlled synthesis of m-BiVO <sub>4</sub> dendrites for enhanced photocatalytic activity. <i>Journal of Crystal Growth</i> , 2016, 448, 93-96.	0.7	11
33	One-step room temperature rapid synthesis of Cu <sub>2</sub> Se nanostructures, phase transformation, and formation of p-Cu <sub>2</sub> Se/p-Cu <sub>3</sub> Se <sub>2</sub> heterojunctions. <i>CrystEngComm</i> , 2016, 18, 5202-5208.	1.3	30
34	Novel Synthesis Strategy of $\gamma$ -AlOOH Nanotubes: Coupling Reaction via Ionic Liquid-Assisted Hydrothermal Route. <i>Crystal Growth and Design</i> , 2016, 16, 6139-6143.	1.4	10
35	Microwave-assisted template-free synthesis of butterfly-like CuO through Cu <sub>2</sub> Cl(OH) <sub>3</sub> precursor and the electrochemical sensing property. <i>Solid State Sciences</i> , 2016, 61, 146-154.	1.5	20
36	Ionic liquids and their solid-state analogues as materials for energy generation and storage. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	511

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37	Interior design of three-dimensional CuO ordered architectures with enhanced performance for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6357-6367.	5.2	106
38	Doping mechanism of Zn <sup>2+</sup> ions in Zn-doped TiO <sub>2</sub> prepared by a sol-gel method. <i>CrystEngComm</i> , 2015, 17, 5074-5080.	1.3	50
39	Solvothermal Synthesis of Three-Dimensional Hierarchical CuS Microspheres from a Cu-Based Ionic Liquid Precursor for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21735-21744.	4.0	208
40	New Type Photocatalyst PbBiO <sub>2</sub> Cl: Materials Design and Experimental Validation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28190-28193.	1.5	22
41	Facile solvothermal synthesis of 3D flowerlike In <sub>2</sub> S <sub>3</sub> microspheres and their photocatalytic activity performance. <i>RSC Advances</i> , 2014, 4, 50456-50463.	1.7	24
42	Geometric Matching Principle for Adsorption Selectivity of Ionic Liquids: A Simple Method into the Fascinating World of Shape-Controlled Chemistry. <i>Chemistry - A European Journal</i> , 2014, 20, 9012-9017.	1.7	11
43	Electrochemical performances investigation of NiS/rGO composite as electrode material for supercapacitors. <i>Nano Energy</i> , 2014, 5, 74-81.	8.2	245
44	Surfactant-free synthesis of Zn <sub>2</sub> SnO <sub>4</sub> octahedron decorated with nanoplates and its application in rechargeable lithium ion batteries. <i>RSC Advances</i> , 2014, 4, 49806-49810.	1.7	15
45	Synergistic effect of the reducing ability and hydrogen bonds of tested gases: highly orientational CdS dendrite sensors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1032-1038.	5.2	19
46	Elucidating Ionic Liquid Environments That Affect the Morphology of TiO <sub>2</sub> Nanocrystals: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23320-23327.	1.5	18
47	Fabrication of N-TiO <sub>2</sub> /InBO <sub>3</sub> Heterostructures with Enhanced Visible Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13545-13551.	1.5	38
48	The art of using ionic liquids in the synthesis of inorganic nanomaterials. <i>CrystEngComm</i> , 2014, 16, 2550.	1.3	146
49	Hierarchical porous NiCo <sub>2</sub> S <sub>4</sub> hexagonal plates: Formation via chemical conversion and application in high performance supercapacitors. <i>Electrochimica Acta</i> , 2014, 144, 16-21.	2.6	74
50	The Design of TiO <sub>2</sub> Nanostructures (Nanoparticle, Nanotube, and Nanosheet) and Their Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12727-12733.	1.5	91
51	Morphology-controllable ZnO rings: ionic liquid-assisted hydrothermal synthesis, growth mechanism and photoluminescence properties. <i>CrystEngComm</i> , 2013, 15, 6729.	1.3	56
52	Ionic liquid-assisted synthesis of mesoporous Zn-Ga <sub>2</sub> O <sub>3</sub> hierarchical structures with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12417.	5.2	36
53	Facile synthesis of novel Zn-Ag <sub>3</sub> VO <sub>4</sub> nanostructures with enhanced photocatalytic activity. <i>CrystEngComm</i> , 2013, 15, 8933.	1.3	48
54	Ionic liquid-assisted solvothermal synthesis of oriented self-assembled Fe <sub>3</sub> O <sub>4</sub> nanoparticles into monodisperse nanoflakes. <i>CrystEngComm</i> , 2013, 15, 3284.	1.3	17

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55	Understanding the Effect Models of Ionic Liquids in the Synthesis of $\text{NH}_4^+\text{AlOOH}$ Nanostructures and Their Conversion into Porous $\text{Al}_2\text{O}_3$ . <i>Chemistry - A European Journal</i> , 2013, 19, 5924-5937.	1.7	52
56	Solvothermal synthesis of hierarchical flower-like $\text{NiS}$ with excellent electrochemical performance for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7880.	5.2	289
57	Formation of Alumina Nanocapsules by High-Energy-Electron Irradiation of Na-dawsonite Nanorods. <i>Scientific Reports</i> , 2013, 3, 3218.	1.6	7
58	Designable fabrication of flower-like $\text{SnS}_2$ aggregates with excellent performance in lithium-ion batteries. <i>RSC Advances</i> , 2012, 2, 3615.	1.7	57
59	Growth of flower-like $\text{CdSe}$ dendrites from a Brønsted acid-base ionic liquid precursor. <i>RSC Advances</i> , 2012, 2, 5944.	1.7	6
60	A Novel $\text{PbS}$ Hierarchical Superstructure Guided by the Balance between Thermodynamic and Kinetic Control via a Single-Source Precursor Route. <i>Inorganic Chemistry</i> , 2012, 51, 914-919.	1.9	21
61	Facile preparation and electrochemical properties of hierarchical chrysanthemum-like $\text{WO}_3 \cdot 0.33\text{H}_2\text{O}$ . <i>Journal of Materials Chemistry</i> , 2012, 22, 3699.	6.7	70
62	Controllable hydrothermal synthesis of manganese dioxide nanostructures: shape evolution, growth mechanism and electrochemical properties. <i>CrystEngComm</i> , 2012, 14, 4196.	1.3	130
63	$\text{NiO}$ nanomaterials: controlled fabrication, formation mechanism and the application in lithium-ion battery. <i>CrystEngComm</i> , 2012, 14, 453-459.	1.3	79
64	Plate-like $\text{SnS}_2$ nanostructures: Hydrothermal preparation, growth mechanism and excellent electrochemical properties. <i>CrystEngComm</i> , 2012, 14, 832-836.	1.3	84
65	Porous platelike hematite mesocrystals: synthesis, catalytic and gas-sensing applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 11694.	6.7	109
66	A controllable ionic liquid-assisted hydrothermal route to prepare $\text{CoCO}_3$ crystals and their conversion to porous $\text{Co}_3\text{O}_4$ . <i>Crystal Research and Technology</i> , 2012, 47, 25-30.	0.6	11
67	Ionothermal synthesis of aggregated $\text{Fe}_2\text{O}_3$ nanoplates and their magnetic properties. <i>Nanoscale</i> , 2011, 3, 4372.	2.8	45
68	Topochemical Preparation of $\text{WO}_3$ Nanoplates through Precursor $\text{H}_2\text{WO}_4$ and Their Gas-Sensing Performances. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18157-18163.	1.5	137
69	Superior gas-sensing and lithium-storage performance $\text{SnO}_2$ nanocrystals synthesized by hydrothermal method. <i>CrystEngComm</i> , 2011, 13, 6077.	1.3	45
70	Hydrothermal synthesis of copper selenides with controllable phases and morphologies from an ionic liquid precursor. <i>Nanoscale</i> , 2011, 3, 5090.	2.8	83
71	Growth of tellurium nanowire bundles from an ionic liquid precursor. <i>CrystEngComm</i> , 2011, 13, 2774.	1.3	17
72	Ionic liquids-assisted synthesis and electrochemical properties of $\text{Bi}_2\text{S}_3$ nanostructures. <i>CrystEngComm</i> , 2011, 13, 3072.	1.3	85

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73	One-dimensional Sb <sub>2</sub> Se <sub>3</sub> nanostructures: solvothermal synthesis, growth mechanism, optical and electrochemical properties. <i>CrystEngComm</i> , 2011, 13, 2369.	1.3	69
74	Ionic liquid-assisted hydrothermal synthesis of Al <sub>2</sub> O <sub>3</sub> hierarchical nanostructures. <i>Crystal Research and Technology</i> , 2010, 45, 767-770.	0.6	8
75	One-step ionothermal synthesis of Al <sub>2</sub> O <sub>3</sub> mesoporous nanoflakes at low temperature. <i>Chemical Communications</i> , 2010, 46, 2650.	2.2	78
76	Morphology Controllable Synthesis of Al <sub>2</sub> O <sub>3</sub> Nanostructures via an Ionic Liquid-Assisted Hydrothermal Route. <i>Crystal Growth and Design</i> , 2010, 10, 2928-2933.	1.4	82
77	Ionothermal Synthesis of BiOCl Nanostructures via a Long-Chain Ionic Liquid Precursor Route. <i>Crystal Growth and Design</i> , 2010, 10, 2522-2527.	1.4	122
78	Ionothermal Synthesis of BiOCl Nanostructures via a Long-Chain Ionic Liquid Precursor Route. <i>Crystal Growth and Design</i> , 2010, 10, 4668-4668.	1.4	9
79	Shape-Controlled Synthesis of Metal Carbonate Nanostructure via Ionic Liquid-Assisted Hydrothermal Route: The Case of Manganese Carbonate. <i>Crystal Growth and Design</i> , 2010, 10, 4449-4455.	1.4	77
80	Inorganic and organic templates-assisted solvothermal synthesis of trigonal selenium microrods. <i>Crystal Research and Technology</i> , 2009, 44, 391-394.	0.6	3
81	Synthesis of Zinc Hydroxyfluoride Nanofibers through an Ionic Liquid Assisted Microwave Irradiation Method. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 2897-2900.	1.0	46
82	Ionothermal Synthesis of Turbostratic Boron Nitride Nanoflakes at Low Temperature. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9135-9140.	1.5	58
83	Ionic Liquid-Assisted Synthesis of Large-Scale TiO <sub>2</sub> Nanoparticles with Controllable Phase by Hydrolysis of TiCl <sub>4</sub> . <i>ACS Nano</i> , 2009, 3, 115-122.	7.3	223
84	Hematite (Fe <sub>2</sub> O <sub>3</sub> ) with Various Morphologies: Ionic Liquid-Assisted Synthesis, Formation Mechanism, and Properties. <i>ACS Nano</i> , 2009, 3, 3749-3761.	7.3	476
85	Designed Reversible Alkylamine Intercalation-Deintercalation in the Layered Perovskite-Type Oxide KCa <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub> . <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 3864-3870.	1.0	12
86	Systematic Investigation on Morphologies, Forming Mechanism, Photocatalytic and Photoluminescent Properties of ZnO Nanostructures Constructed in Ionic Liquids. <i>Inorganic Chemistry</i> , 2008, 47, 1443-1452.	1.9	193
87	Syntheses of CuO nanostructures in ionic liquids. <i>Science in China Series B: Chemistry</i> , 2007, 50, 63-69.	0.8	16
88	Fabrication of ZnO nanorods in ionic liquids and their photoluminescent properties. <i>Science in China Series B: Chemistry</i> , 2007, 50, 224-229.	0.8	16
89	Title is missing!. <i>Journal of Materials Science Letters</i> , 2000, 19, 1611-1613.	0.5	2