Wenjun Zheng

List of Publications by Year
in descending order

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89 papers	5,393 citations	87723 38 h-index	82410 72 g-index
89 all docs	89 docs citations	89 times ranked	7829 citing authors

#	Article	IF	Citations
1	Ionic liquids and their solid-state analogues as materials for energy generation and storage. Nature Reviews Materials, 2016, 1, .	23.3	511
2	Hematite (Î±-Fe₂O₃) with Various Morphologies: Ionic Liquid-Assisted Synthesis, Formation Mechanism, and Properties. ACS Nano, 2009, 3, 3749-3761.	7.3	476
3	Solvothermal synthesis of hierarchical flower-like Î²-NiS with excellent electrochemical performance for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 7880.	5.2	289
4	Electrochemical performances investigation of NiS/rGO composite as electrode material for supercapacitors. Nano Energy, 2014, 5, 74-81.	8.2	245
5	Ionic Liquid-Assisted Synthesis of Large-Scale TiO₂ Nanoparticles with Controllable Phase by Hydrolysis of TiCl₄. ACS Nano, 2009, 3, 115-122.	7.3	223
6	Solvothermal Synthesis of Three-Dimensional Hierarchical CuS Microspheres from a Cu-Based Ionic Liquid Precursor for High-Performance Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 21735-21744.	4.0	208
7	Systematic Investigation on Morphologies, Forming Mechanism, Photocatalytic and Photoluminescent Properties of ZnO Nanostructures Constructed in Ionic Liquids. Inorganic Chemistry, 2008, 47, 1443-1452.	1.9	193
8	The art of using ionic liquids in the synthesis of inorganic nanomaterials. CrystEngComm, 2014, 16, 2550.	1.3	146
9	Topochemical Preparation of WO₃ Nanoplates through Precursor H₂WO₄ and Their Gas-Sensing Performances. Journal of Physical Chemistry C, 2011, 115, 18157-18163.	1.5	137
10	Controllable hydrothermal synthesis of manganese dioxide nanostructures: shape evolution, growth mechanism and electrochemical properties. CrystEngComm, 2012, 14, 4196.	1.3	130
11	Ionothermal Synthesis of BiOCl Nanostructures via a Long-Chain Ionic Liquid Precursor Route. Crystal Growth and Design, 2010, 10, 2522-2527.	1.4	122
12	Porous platelike hematite mesocrystals: synthesis, catalytic and gas-sensing applications. Journal of Materials Chemistry, 2012, 22, 11694.	6.7	109
13	Interior design of three-dimensional CuO ordered architectures with enhanced performance for supercapacitors. Journal of Materials Chemistry A, 2016, 4, 6357-6367.	5.2	106
14	One-step extended strategy for the ionic liquid-assisted synthesis of Ni₃S₄â€“MoS₂ heterojunction electrodes for supercapacitors. Journal of Materials Chemistry A, 2017, 5, 11278-11285.	5.2	103
15	The Design of TiO₂ Nanostructures (Nanoparticle, Nanotube, and Nanosheet) and Their Photocatalytic Activity. Journal of Physical Chemistry C, 2014, 118, 12727-12733.	1.5	91
16	Ionic liquids-assisted synthesis and electrochemical properties of Bi2S3 nanostructures. CrystEngComm, 2011, 13, 3072.	1.3	85
17	Plate-like SnS₂nanostructures: Hydrothermal preparation, growth mechanism and excellent electrochemical properties. CrystEngComm, 2012, 14, 832-836.	1.3	84
18	Ionic Liquidâ€Controlled Growth of NiCo₂S₄ 3D Hierarchical Hollow Nanoarrow Arrays on Ni Foam for Superior Performance Binder Free Hybrid Supercapacitors. Small, 2019, 15, e1804318.	5.2	84

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19	Hydrothermal synthesis of copper selenides with controllable phases and morphologies from an ionic liquid precursor. Nanoscale, 2011, 3, 5090.	2.8	83
20	Morphology Controllable Synthesis of Î³-Alumina Nanostructures via an Ionic Liquid-Assisted Hydrothermal Route. Crystal Growth and Design, 2010, 10, 2928-2933.	1.4	82
21	NiO nanomaterials: controlled fabrication, formation mechanism and the application in lithium-ion battery. CrystEngComm, 2012, 14, 453-459.	1.3	79
22	One-step ionothermal synthesis of Î³-Al2O3 mesoporous nanoflakes at low temperature. Chemical Communications, 2010, 46, 2650.	2.2	78
23	Shape-Controlled Synthesis of Metal Carbonate Nanostructure via Ionic Liquid-Assisted Hydrothermal Route: The Case of Manganese Carbonate. Crystal Growth and Design, 2010, 10, 4449-4455.	1.4	77
24	Hierarchical porous NiCo2S4 hexagonal plates: Formation via chemical conversion and application in high performance supercapacitors. Electrochimica Acta, 2014, 144, 16-21.	2.6	74
25	Facile preparation and electrochemical properties of hierarchical chrysanthemum-like WO3Â·0.33H2O. Journal of Materials Chemistry, 2012, 22, 3699.	6.7	70
26	One-dimensional Sb2Se3 nanostructures: solvothermal synthesis, growth mechanism, optical and electrochemical properties. CrystEngComm, 2011, 13, 2369.	1.3	69
27	Synthesis of copper-cobalt hybrid oxide microflowers as electrode material for supercapacitors. Chemical Engineering Journal, 2018, 343, 331-339.	6.6	67
28	Ni/Ni₃C Core/Shell Hierarchical Nanospheres with Enhanced Electrocatalytic Activity for Water Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 17827-17834.	4.0	65
29	Ionothermal Synthesis of Turbostratic Boron Nitride Nanoflakes at Low Temperature. Journal of Physical Chemistry C, 2009, 113, 9135-9140.	1.5	58
30	Designable fabrication of flower-like SnS2 aggregates with excellent performance in lithium-ion batteries. RSC Advances, 2012, 2, 3615.	1.7	57
31	Morphology-controllable ZnO rings: Ionic liquid-assisted hydrothermal synthesis, growth mechanism and photoluminescence properties. CrystEngComm, 2013, 15, 6729.	1.3	56
32	Understanding the Effect Models of Ionic Liquids in the Synthesis of NH₄â€Dw and Î³â€AlOOH Nanostructures and Their Conversion into Porous Î³â€Al₂O₃. Chemistry - A European Journal, 2013, 19, 5924-5937.	1.7	52
33	Doping mechanism of Zn²⁺ions in Zn-doped TiO₂prepared by a solâ€“gel method. CrystEngComm, 2015, 17, 5074-5080.	1.3	50
34	Facile synthesis of novel Î±-Ag3VO4 nanostructures with enhanced photocatalytic activity. CrystEngComm, 2013, 15, 8933.	1.3	48
35	Synthesis of Zinc Hydroxyfluoride Nanofibers through an Ionic Liquid Assisted Microwave Irradiation Method. European Journal of Inorganic Chemistry, 2009, 2009, 2897-2900.	1.0	46
36	Ionothermal synthesis of aggregated Î±-Fe2O3 nanoplates and their magnetic properties. Nanoscale, 2011, 3, 4372.	2.8	45

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37	Superior gas-sensing and lithium-storage performance SnO2 nanocrystals synthesized by hydrothermal method. CrystEngComm, 2011, 13, 6077.	1.3	45
38	Ionic liquid-assisted synthesis of Cu7Te4 ultrathin nanosheets with enhanced electrocatalytic activity for water oxidation. Nano Energy, 2017, 41, 780-787.	8.2	42
39	Graphitic Carbon Coated CuO Hollow Nanospheres with Penetrated Mesochannels for High-Performance Asymmetric Supercapacitors. ACS Sustainable Chemistry and Engineering, 2017, 5, 105-111.	3.2	42
40	Fabrication of N-TiO₂/InBO₃ Heterostructures with Enhanced Visible Photocatalytic Performance. Journal of Physical Chemistry C, 2014, 118, 13545-13551.	1.5	38
41	Ionic liquid-assisted synthesis of mesoporous Î±-Ga2O3 hierarchical structures with enhanced photocatalytic activity. Journal of Materials Chemistry A, 2013, 1, 12417.	5.2	36
42	Controllable synthesis of NiSe/MoSe2/MoO2 3D hierarchical hollow microspheres with enhanced performance for asymmetric supercapacitors. Chemical Engineering Journal, 2020, 387, 124121.	6.6	36
43	One-step room temperature rapid synthesis of Cu₂Se nanostructures, phase transformation, and formation of p-Cu₂Se/p-Cu₃Se₂heterojunctions. CrystEngComm, 2016, 18, 5202-5208.	1.3	30
44	Doping and transformation mechanisms of Fe³⁺ions in Fe-doped TiO₂. CrystEngComm, 2017, 19, 1100-1105.	1.3	30
45	The band structure and photocatalytic mechanism for a CeO₂-modified C₃N₄ photocatalyst. New Journal of Chemistry, 2017, 41, 9724-9730.	1.4	29
46	Ionothermal synthesis of three-dimensional hierarchical Ni₃Se₂mesoporous nanosheet networks with enhanced performance for asymmetric supercapacitors. Journal of Materials Chemistry A, 2020, 8, 797-809.	5.2	29
47	Controlled synthesis of Ni3C/nitrogen-doped carbon nanoflakes for efficient oxygen evolution. Electrochimica Acta, 2019, 320, 134631.	2.6	25
48	Facile solvothermal synthesis of 3D flowerlike Î²-In₂S₃ microspheres and their photocatalytic activity performance. RSC Advances, 2014, 4, 50456-50463.	1.7	24
49	New Type Photocatalyst PbBiO₂Cl: Materials Design and Experimental Validation. Journal of Physical Chemistry C, 2015, 119, 28190-28193.	1.5	22
50	Tensile force-induced tearing and collapse of ultrathin carbon shells to surface-wrinkled grape skins for high performance supercapacitor electrodes. Journal of Materials Chemistry A, 2017, 5, 14190-14197.	5.2	22
51	A Novel PbS Hierarchical Superstructure Guided by the Balance between Thermodynamic and Kinetic Control via a Single-Source Precursor Route. Inorganic Chemistry, 2012, 51, 914-919.	1.9	21
52	TiO₂â€“Pd/C composited photocatalyst with improved photocatalytic activity for photoreduction of CO₂ into CH₄. New Journal of Chemistry, 2017, 41, 3204-3210.	1.4	21
53	Microwave-assisted template-free synthesis of butterfly-like CuO through Cu2Cl(OH)3 precursor and the electrochemical sensing property. Solid State Sciences, 2016, 61, 146-154.	1.5	20
54	Red phosphorus as self-template to hierarchical nanoporous nickel phosphides toward enhanced electrocatalytic activity for oxygen evolution reaction. Electrochimica Acta, 2020, 332, 135500.	2.6	20

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55	Synergistic effect of the reducing ability and hydrogen bonds of tested gases: highly orientational CdS dendrite sensors. Journal of Materials Chemistry A, 2014, 2, 1032-1038.	5.2	19
56	Elucidating Ionic Liquid Environments That Affect the Morphology of TiO₂ Nanocrystals: A DFT+D Study. Journal of Physical Chemistry C, 2014, 118, 23320-23327.	1.5	18
57	Growth of tellurium nanowire bundles from an ionic liquid precursor. CrystEngComm, 2011, 13, 2774.	1.3	17
58	Ionic liquid-assisted solvothermal synthesis of oriented self-assembled Fe3O4 nanoparticles into monodisperse nanoflakes. CrystEngComm, 2013, 15, 3284.	1.3	17
59	Synergistic Effects of Tungsten Doping and Sulfur Vacancies in MoS₂ on Enhancement of Hydrogen Evolution. Journal of Physical Chemistry C, 2021, 125, 11369-11379.	1.5	17
60	Syntheses of CuO nanostructures in ionic liquids. Science in China Series B: Chemistry, 2007, 50, 63-69.	0.8	16
61	Fabrication of ZnO nanorods in ionic liquids and their photoluminescent properties. Science in China Series B: Chemistry, 2007, 50, 224-229.	0.8	16
62	One-pot synthesis of highly stable carbonâ€“MoS₂ nanosphere electrodes using a co-growth mechanism for supercapacitors. New Journal of Chemistry, 2018, 42, 10111-10117.	1.4	16
63	Surfactant-free synthesis of Zn₂SnO₄ octahedron decorated with nanoplates and its application in rechargeable lithium ion batteries. RSC Advances, 2014, 4, 49806-49810.	1.7	15
64	Copper Telluride Nanosheet/Cu Foil Electrode: Facile Ionic Liquid-Assisted Synthesis and Efficient Oxygen Evolution Performance. Journal of Physical Chemistry C, 2020, 124, 22117-22126.	1.5	15
65	MoS₂ Nanotubes via Ionic-Liquid-Assisted Assembly of MoS₂ Nanosheets for Lithium Storage. ACS Applied Nano Materials, 2021, 4, 3397-3405.	2.4	13
66	Designed Reversible Alkylamine Intercalation-Deintercalation in the Layered Perovskite-Type Oxide KCa2Nb3O10. European Journal of Inorganic Chemistry, 2008, 2008, 3864-3870.	1.0	12
67	A controllable ionic liquidâ€assisted hydrothermal route to prepare CoCO₃ crystals and their conversion to porous Co₃O₄. Crystal Research and Technology, 2012, 47, 25-30.	0.6	11
68	Geometric Matching Principle for Adsorption Selectivity of Ionic Liquids: A Simple Method into the Fascinating World of Shapeâ€Controlled Chemistry. Chemistry - A European Journal, 2014, 20, 9012-9017.	1.7	11
69	Controlled synthesis of m-BiVO4 dendrites for enhanced photocatalytic activity. Journal of Crystal Growth, 2016, 448, 93-96.	0.7	11
70	Facile synthesis of 3D flower-like Cu_{2â”x}Se nanostructuresviaa sacrificing template method and their excellent antibacterial activities. CrystEngComm, 2017, 19, 7253-7259.	1.3	11
71	A combinationâ€“decomposition method to synthesize two-dimensional metal sulfideâ€“amine hybrid nanosheets: a highly efficient Fe-based water oxidation electrocatalyst. Chemical Communications, 2018, 54, 4617-4620.	2.2	11
72	Ionic liquid-assisted solvothermal synthesis of three-dimensional hierarchical copper sulfide microflowers at a low temperature with enhanced photocatalytic performance. CrystEngComm, 2016, 18, 6245-6253.	1.3	10

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73	Novel Synthesis Strategy of Î³-AlOOH Nanotubes: Coupling Reaction via Ionic Liquid-Assisted Hydrothermal Route. Crystal Growth and Design, 2016, 16, 6139-6143.	1.4	10
74	Ionic liquid bifunctionally modulated aggregation-coalescence mechanism to synthesize SnSe single-crystal nanorod/nanoparticle core shell nanostructures and single-crystal nanorods for optoelectronics. CrystEngComm, 2018, 20, 1141-1150.	1.3	10
75	Novel ultralong hollow hyperbranched Cu2â€“xSe with nanosheets hierarchical structure: Preparation, formation mechanism and properties. Journal of Alloys and Compounds, 2019, 802, 430-436.	2.8	10
76	Ionothermal Synthesis of BiOCl Nanostructures via a Long-Chain Ionic Liquid Precursor Route. Crystal Growth and Design, 2010, 10, 4668-4668.	1.4	9
77	Ionic liquidâ€assisted hydrothermal synthesis of Î³â€Al₂O₃hierarchical nanostructures. Crystal Research and Technology, 2010, 45, 767-770.	0.6	8
78	Design and Synthesis of a Reduced Graphene Oxide/Patronite Composite with Enhanced Lithium-Ion Storage Performance. ACS Applied Materials & Interfaces, 2020, 12, 5775-5785.	4.0	8
79	Controllable Synthesis of a Loofah-Like Cobaltâ€“Nickel Selenide Network as an Efficient Electrocatalyst for the Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2022, 14, 8963-8973.	4.0	8
80	Enhanced Oxygen Evolution Catalytic Activity of Ni₃Mo₃N-MoO₂-NiO Nanoparticles via Synergistic Effect. Energy & Fuels, 2022, 36, 4902-4910.	2.5	8
81	Formation of Alumina Nanocapsules by High-Energy-Electron Irradiation of Na-dawsonite Nanorods. Scientific Reports, 2013, 3, 3218.	1.6	7
82	Growth of flower-like CdSe dendrites from a BrÃ¸nsted acidâ€“base ionic liquid precursor. RSC Advances, 2012, 2, 5944.	1.7	6
83	Fabrication of heterogeneous interface and phosphorus doping in MoS2 for efficient hydrogen evolution in both acid and alkaline electrolytes. Electrochimica Acta, 2021, 385, 138429.	2.6	6
84	Ionic liquid-hydroxide-mediated low-temperature synthesis of high-entropy perovskite oxide nanoparticles. Nanoscale, 2022, 14, 7817-7827.	2.8	6
85	Preparation of mesoporous ZnAl2O4 nanoflakes by ion exchange from a Na-dawsonite parent material in the presence of an ionic liquid. RSC Advances, 2019, 9, 11894-11900.	1.7	4
86	Inorganic and organic templatesâ€assisted solvothermal synthesis of trigonal selenium microrods. Crystal Research and Technology, 2009, 44, 391-394.	0.6	3
87	Title is missing!. Journal of Materials Science Letters, 2000, 19, 1611-1613.	0.5	2
88	Application of ionic liquids in inorganic synthesis. , 2021, , 105-128.		1
89	Feâ€doped Nickel Carbonate Hydroxide Array Electrocatalysts for Enhanced Oxygen Evolution Reaction. ChemistrySelect, 2022, 7, .	0.7	1