Zheng-Hua Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

85 papers	4,848 citations	109321 35 h-index	91884 69 g-index
90 all docs	90 docs citations	90 times ranked	6954 citing authors

#	Article	IF	Citations
1	Homogeneous coreâ€“shell NiCo₂S₄ nanostructures supported on nickel foam for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 12452-12460.	10.3	428
2	Preparation and Electrochemical Characterization of Hollow Hexagonal NiCo₂S₄Nanoplates as Pseudocapacitor Materials. ACS Sustainable Chemistry and Engineering, 2014, 2, 809-815.	6.7	350
3	High supercapacitor and adsorption behaviors of flower-like MoS₂nanostructures. Journal of Materials Chemistry A, 2014, 2, 15958-15963.	10.3	283
4	Direct Growth of NiCo₂S₄ Nanotube Arrays on Nickel Foam as Highâ€Performance Binderâ€Free Electrodes for Supercapacitors. ChemPlusChem, 2014, 79, 577-583.	2.8	230
5	A Simple Hydrothermal Route to Large-Scale Synthesis of Uniform Silver Nanowires. Chemistry - A European Journal, 2005, 11, 160-163.	3.3	216
6	Porous hexagonal NiCo2O4 nanoplates as electrode materials for supercapacitors. Electrochimica Acta, 2013, 106, 226-234.	5.2	193
7	ZnCo₂O₄ nanowire arrays grown on nickel foam for high-performance pseudocapacitors. Journal of Materials Chemistry A, 2014, 2, 5434-5440.	10.3	186
8	Co₉S₈nanotube arrays supported on nickel foam for high-performance supercapacitors. Physical Chemistry Chemical Physics, 2014, 16, 785-791.	2.8	162
9	Ag-Coated Fe₃O₄@SiO₂ Three-Ply Composite Microspheres: Synthesis, Characterization, and Application in Detecting Melamine with Their Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2010, 114, 7738-7742.	3.1	152
10	Co9S8 nanotubes synthesized on the basis of nanoscale Kirkendall effect and their magnetic and electrochemical properties. CrystEngComm, 2010, 12, 1899.	2.6	152
11	Nickelâ€“cobalt hydroxide nanosheets arrays on Ni foam forÂpseudocapacitor applications. Journal of Power Sources, 2014, 250, 250-256.	7.8	150
12	Synthesis of monodisperse Fe3O4@silica coreâ€“shell microspheres and their application for removal of heavy metal ions from water. Journal of Alloys and Compounds, 2010, 492, 656-661.	5.5	139
13	Photocatalytic synthesis of M/Cu2O (M = Ag, Au) heterogeneous nanocrystals and their photocatalytic properties. CrystEngComm, 2011, 13, 2262.	2.6	133
14	High-Performance Red-Light Photodetector Based on Lead-Free Bismuth Halide Perovskite Film. ACS Applied Materials & Interfaces, 2017, 9, 18977-18985.	8.0	128
15	Hierarchical NiCo₂O₄@NiCo₂S₄ Nanocomposite on Ni Foam as an Electrode for Hybrid Supercapacitors. ACS Omega, 2018, 3, 5634-5642.	3.5	99
16	Ligand-Free CuO Nanospindle Catalyzed Arylation of Heterocycle Câ€“H Bonds. Journal of Organic Chemistry, 2011, 76, 4741-4745.	3.2	88
17	Formation of single-crystal tellurium nanowires and nanotubes via hydrothermal recrystallization and their gas sensing properties at room temperature. Journal of Materials Chemistry, 2010, 20, 2457.	6.7	84
18	Room temperature synthesis of Cu2O nanocubes and nanoboxes. Solid State Communications, 2004, 130, 585-589.	1.9	81

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19	Synthesis of polycrystalline cobalt selenide nanotubes and their catalytic and capacitive behaviors. CrystEngComm, 2013, 15, 5928.	2.6	73
20	Synthesis of quinazolines via CuO nanoparticles catalyzed aerobic oxidative coupling of aromatic alcohols and amidines. Organic and Biomolecular Chemistry, 2014, 12, 5752-5756.	2.8	64
21	Nickel foam supported hierarchical Co₉S₈ nanostructures for asymmetric supercapacitors. New Journal of Chemistry, 2017, 41, 1142-1148.	2.8	52
22	Synthesis and Modification of Boron Nitride Nanomaterials for Electrochemical Energy Storage: From Theory to Application. Advanced Functional Materials, 2021, 31, 2106315.	14.9	51
23	Synthesis of Co3O4 nanorod bunches from a single precursor Co(CO3)0.35Cl0.20(OH)1.10. Solid State Sciences, 2005, 7, 13-15.	3.2	50
24	NiCo₂S₄â€Based Composite Materials for Supercapacitors. ChemPlusChem, 2020, 85, 43-56.	2.8	46
25	Controlled synthesis of Cu₂O cubic and octahedral nanoâ€•and microcrystals. Crystal Research and Technology, 2009, 44, 624-628.	1.3	44
26	Self-Template Synthesis of Agâ€“Pt Hollow Nanospheres as Electrocatalyst for Methanol Oxidation Reaction. Langmuir, 2017, 33, 5991-5997.	3.5	44
27	ZnO/Ag heterogeneous structure nanoarrays: Photocatalytic synthesis and used as substrate for surface-enhanced Raman scattering detection. Journal of Alloys and Compounds, 2011, 509, 2016-2020.	5.5	43
28	Fe3O4@C coreâ€“shell microspheres: synthesis, characterization, and application as supercapacitor electrodes. Journal of Solid State Electrochemistry, 2014, 18, 1067-1076.	2.5	42
29	The deposition of Auâ€“Pt coreâ€“shell nanoparticles on reduced graphene oxide and their catalytic activity. Nanotechnology, 2013, 24, 295402.	2.6	40
30	Platinumâ€“silver alloyed octahedral nanocrystals as electrocatalyst for methanol oxidation reaction. Journal of Colloid and Interface Science, 2018, 513, 251-257.	9.4	40
31	Hydrothermal Heck reaction catalyzed by Ni nanoparticles. Green Chemistry, 2009, 11, 1194.	9.0	39
32	Template synthesis of Cu2â^'xSe nanoboxes and their gas sensing properties. CrystEngComm, 2012, 14, 3528.	2.6	39
33	Nano CuO-catalyzed Câ€“H functionalization of 1,3-azoles with bromoarenes and bromoalkenes. Tetrahedron, 2014, 70, 6120-6126.	1.9	39
34	NiCo2S4/Niâ€“Co layered double hydroxide nanocomposite prepared by a vapor-phase hydrothermal method for electrochemical capacitor application. Journal of Alloys and Compounds, 2017, 705, 349-355.	5.5	37
35	One-pot synthesis of single-crystalline Cu2O hollow nanocubes. Journal of Physics and Chemistry of Solids, 2009, 70, 719-722.	4.0	36
36	A MnCo₂O₄@NiMoO₄ Coreâ€Shell Composite Supported on Nickel Foam as a Supercapacitor Electrode for Energy Storage. ChemPlusChem, 2019, 84, 69-77.	2.8	36

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37	Synthesis, characterization and photocatalytic activity of Zn(OH)F hierarchical nanofibers prepared by a simple solution-based method. CrystEngComm, 2012, 14, 2812.	2.6	35
38	Trimetallic PtPdCu nanowires as an electrocatalyst for methanol and formic acid oxidation. New Journal of Chemistry, 2018, 42, 19083-19089.	2.8	35
39	NiCo2S4 nanosheets network supported on Ni foam as an electrode for hybrid supercapacitors. Journal of Alloys and Compounds, 2018, 766, 149-156.	5.5	35
40	PEG-Mediated Hydrothermal Growth of Single-Crystal Tellurium Nanotubes. Crystal Growth and Design, 2008, 8, 4415-4419.	3.0	34
41	Goldâ€“platinum bimetallic nanotubes templated from tellurium nanowires as efficient electrocatalysts for methanol oxidation reaction. Journal of Power Sources, 2015, 296, 102-108.	7.8	32
42	Hierarchical polypyrrole/Ni₃S₂@MoS₂ coreâ€“shell nanostructures on a nickel foam for high-performance supercapacitors. RSC Advances, 2016, 6, 68460-68467.	3.6	32
43	ZnO/CdSe-diethylenetriamine nanocomposite as a step-scheme photocatalyst for photocatalytic hydrogen evolution. Applied Surface Science, 2020, 529, 147071.	6.1	30
44	Facile synthesis of a ZnCo2O4 electrocatalyst with three-dimensional architecture for methanol oxidation. Journal of Alloys and Compounds, 2019, 810, 151879.	5.5	27
45	Shape-Controlled Synthesis of Trimetallic PtPdCu Nanocrystals and Their Electrocatalytic Properties. ACS Applied Energy Materials, 2019, 2, 2515-2523.	5.1	27
46	Advancedin situtechnology for Li/Na metal anodes: an in-depth mechanistic understanding. Energy and Environmental Science, 2021, 14, 3872-3911.	30.8	27
47	An effective oxide shell-protected surface-enhanced Raman scattering (SERS) substrate: the easy route to Ag@AgxO-silicon nanowire films via surface doping. Journal of Materials Chemistry C, 2013, 1, 1628.	5.5	26
48	Synthesis of coreâ€“shell Fe3O4@SiO2@MS (M=Pb, Zn, and Hg) microspheres and their application as photocatalysts. Journal of Alloys and Compounds, 2011, 509, 6893-6898.	5.5	25
49	Hierarchical NiCo2O4 and NiCo2S4 nanomaterials as electrocatalysts for methanol oxidation reaction. International Journal of Hydrogen Energy, 2021, 46, 32069-32080.	7.1	25
50	PtFeCu Concave Octahedron Nanocrystals as Electrocatalysts for the Methanol Oxidation Reaction. Langmuir, 2019, 35, 16752-16760.	3.5	24
51	Glucose Reduction Route Synthesis of Uniform Silver Nanowires in Large-scale. Chemistry Letters, 2004, 33, 1160-1161.	1.3	23
52	Synthesis of Core-Shell @@ Microspheres and Their Application as Recyclable Photocatalysts. International Journal of Photoenergy, 2012, 2012, 1-6.	2.5	23
53	Inâ€…Situ Growth of Nobleâ€Metal Nanoparticles on Cu₂O Nanocubes for Surfaceâ€Enhanced Raman Scattering Detection. ChemPlusChem, 2014, 79, 684-689.	2.8	22
54	Polymer-assisted hydrothermal synthesis of trigonal selenium nanorod bundles. Inorganic Chemistry Communication, 2003, 6, 1329-1331.	3.9	21

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55	In2Se3/CdS nanocomposites as high efficiency photocatalysts for hydrogen production under visible light irradiation. International Journal of Hydrogen Energy, 2021, 46, 15539-15549.	7.1	19
56	Urchin-like CdS microspheres self-assembled from CdS nanorods and their photocatalytic properties. Solid State Sciences, 2011, 13, 970-975.	3.2	18
57	Shape-controlled synthesis of ternary nickel cobaltite and their application in supercapacitors. Journal of Electroanalytical Chemistry, 2013, 707, 66-73.	3.8	18
58	Agâ€“Pt coreâ€“shell nanocomposites for enhanced methanol oxidation. Journal of Electroanalytical Chemistry, 2014, 728, 66-71.	3.8	16
59	Synthesis of NiCo₂S₄ Nanocages as Pseudocapacitor Electrode Materials. ChemistrySelect, 2016, 1, 4082-4086.	1.5	16
60	Platinum nanoparticles supported on coreâ€“shell nickelâ€“carbon as catalyst for methanol oxidation reaction. Journal of Alloys and Compounds, 2017, 690, 95-100.	5.5	16
61	Controlled synthesis of trigonal selenium crystals with different morphologies. Solid State Communications, 2005, 135, 319-322.	1.9	15
62	Influence of Anions on the Morphology of Nanophase <I>Î±</I>-MnO₂ Crystal via Hydrothermal Process. Journal of Nanoscience and Nanotechnology, 2006, 6, 2576-2579.	0.9	15
63	Hydrothermal Synthesis of Zn_xNi_{1â^'x}S Nanosheets for Hybrid Supercapacitor Applications. ChemPlusChem, 2017, 82, 1145-1152.	2.8	15
64	Directly carbonized lotus seedpod shells as high-stable electrode material for supercapacitors. Ionics, 2015, 21, 809-816.	2.4	13
65	Synthesis of a hierarchical cobalt sulfide/cobalt basic salt nanocomposite via a vapor-phase hydrothermal method as an electrode material for supercapacitor. New Journal of Chemistry, 2017, 41, 12147-12152.	2.8	11
66	Construction of CeO2/CdSe-Diethylenetriamine step-scheme heterojunction for photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 6358-6368.	7.1	11
67	Synthesis of step-scheme In2Se3/CdSe nanocomposites photocatalysts for hydrogen production. Composites Communications, 2021, 24, 100618.	6.3	10
68	Converting the Charge Transfer in ZnO/Zn_xCd_{1â€‹}_xSâ€ÐETA Nanocomposite from Typeâ€Ⅰ to Sâ€scheme for Efficient Photocatalytic Hydrogen Production. Advanced Materials Interfaces, 2022, 9, .	3.7	10
69	Facile synthesis of goldâ€“platinum dendritic nanostructures with enhanced electrocatalytic performance for the methanol oxidation reaction. RSC Advances, 2016, 6, 51569-51574.	3.6	9
70	Template Synthesis of Ag2S Nanorods via an Ion-exchange Route. Chemistry Letters, 2004, 33, 754-755.	1.3	8
71	Preparation of Semiconductor/Polymer Coaxial Nanocables by a Facile Solution Process. European Journal of Inorganic Chemistry, 2006, 2006, 207-212.	2.0	8
72	Rapid growth of t-Se nanowires in acetone at room temperature and their photoelectrical properties. Frontiers of Optoelectronics in China, 2011, 4, 188-194.	0.2	7

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73	Unique 1D/2D Bi₂O₂CO₃ nanorod-Bi₂WO₆ nanosheet heterostructure: synthesis and photocatalytic performance. CrystEngComm, 2021, 23, 6128-6136.	2.6	7
74	Conversion of AgCl nanocubes to Ag/AgCl nanohybrids via solidâ€“liquid reaction for surfaceâ€enhanced Raman scattering detection. Micro and Nano Letters, 2014, 9, 297-301.	1.3	6
75	PtPdCu cubic nanoframes as electrocatalysts for methanol oxidation reaction. CrystEngComm, 2021, 23, 7978-7984.	2.6	5
76	Synthesis of silicon nanowires supported Ag nanoparticles and their catalytic activity in photo-degradation of Rhodamine B. Frontiers of Optoelectronics in China, 2011, 4, 171-175.	0.2	4
77	Gelidium-shaped NiCo2O4 nanomaterial as an efficient bifunctional electrocatalyst for methanol oxidation and oxygen reduction reactions. Materials Letters, 2021, 305, 130854.	2.6	4
78	In-situ formation of atomic-level Mn-Sn interfacial compounds for enhanced Li-ion integrated anode. Applied Surface Science, 2020, 508, 145243.	6.1	3
79	Microwave hydrothermal synthesis of WO3(H2O)0.333/CdS nanocomposites for efficient visible-light photocatalytic hydrogen evolution. Frontiers of Materials Science, 2021, 15, 589-600.	2.2	3
80	Surface-enhanced Raman scattering of sulfate ion based on Ag/Si nanostructure. Frontiers of Optoelectronics in China, 2011, 4, 378-381.	0.2	2
81	A three-dimensional flower-like Mnâ€“Niâ€“Coâ€“O microstructure as a high-performance electrocatalyst for the methanol oxidation reaction. New Journal of Chemistry, 2022, 46, 7657-7662.	2.8	2
82	Flowerâ€Like Au@CeO₂ Coreâ€Shell Nanospheres as Efficient Photocatalyst for Multicomponent Reaction of Alcohols and Amidines. Asian Journal of Organic Chemistry, 2022, 11, .	2.7	2
83	The blue cathodoluminescence and photoluminescence of porous silicon nanoribbons. Journal of Materials Science: Materials in Electronics, 2011, 22, 179-182.	2.2	1
84	Synthesis of Co3O4 Nanorod Bunches from a Single Precursor Co(CO3)0.35Cl0.20(OH)1.10.. ChemInform, 2005, 36, no.	0.0	0
85	Inâ€…Situ Growth of Nobleâ€Metal Nanoparticles on Cu₂O Nanocubes for Surfaceâ€Enhanced Raman Scattering Detection. ChemPlusChem, 2014, 79, 620-620.	2.8	0