

Yuanzhi Chen

List of Publications by Year in descending order

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79
papers

4,355
citations

94269

37
h-index

106150

65
g-index

80
all docs

80
docs citations

80
times ranked

6884
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper Nanowires as Fully Transparent Conductive Electrodes. <i>Scientific Reports</i> , 2013, 3, 2323.	1.6	310
2	Toward noble-metal-free visible-light-driven photocatalytic hydrogen evolution: Monodisperse sub-15 nm Ni ₂ P nanoparticles anchored on porous g-C ₃ N ₄ nanosheets to engineer OD-2D heterojunction interfaces. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 47-55.	10.8	251
3	Sub-5 nm Ultra-Fine FeP Nanodots as Efficient Co-Catalysts Modified Porous g-C ₃ N ₄ for Precious-Metal-Free Photocatalytic Hydrogen Evolution under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5651-5660.	4.0	208
4	Preparation and magnetic properties of nickel nanoparticles via the thermal decomposition of nickel organometallic precursor in alkylamines. <i>Nanotechnology</i> , 2007, 18, 505703.	1.3	187
5	Ni ₁₂ P ₅ nanoparticles embedded into porous g-C ₃ N ₄ nanosheets as a noble-metal-free hetero-structure photocatalyst for efficient H ₂ production under visible light. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16171-16178.	5.2	183
6	Au-ZnO hybrid nanoflowers, nanomultipods and nanopyramids: one-pot reaction synthesis and photocatalytic properties. <i>Nanoscale</i> , 2014, 6, 874-881.	2.8	160
7	Construction of network-like and flower-like 2H-MoSe ₂ nanostructures coupled with porous g-C ₃ N ₄ for noble-metal-free photocatalytic H ₂ evolution under visible light. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 26-34.	10.8	147
8	Hierarchical ZnIn ₂ S ₄ /MoSe ₂ Nanoarchitectures for Efficient Noble-Metal-Free Photocatalytic Hydrogen Evolution under Visible Light. <i>ChemSusChem</i> , 2017, 10, 4624-4631.	3.6	140
9	Enhanced Microwave Absorption Properties by Tuning Cation Deficiency of Perovskite Oxides of Two-Dimensional LaFeO ₃ /C Composite in X-Band. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7601-7610.	4.0	123
10	Ultrafine ash aerosols from coal combustion: Characterization and health effects. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 1929-1937.	2.4	115
11	Template-Free Synthesis of Amorphous Double-Shelled Zinc-Cobalt Citrate Hollow Microspheres and Their Transformation to Crystalline ZnCo ₂ O ₄ Microspheres. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5508-5517.	4.0	114
12	Synthesis of Co ₂ P/graphene nanocomposites and their enhanced properties as anode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 295, 329-335.	4.0	111
13	Transmission Electron Microscopy Investigation of Ultrafine Coal Fly Ash Particles. <i>Environmental Science & Technology</i> , 2005, 39, 1144-1151.	4.6	108
14	Facile synthesis of Cu and Cu@Cu-Ni nanocubes and nanowires in hydrophobic solution in the presence of nickel and chloride ions. <i>Nanoscale</i> , 2013, 5, 2394.	2.8	108
15	Electron Microscopy Investigation of Carbonaceous Particulate Matter Generated by Combustion of Fossil Fuels. <i>Energy & Fuels</i> , 2005, 19, 1644-1651.	2.5	101
16	Facile synthesis of near-monodisperse Ag@Ni core-shell nanoparticles and their application for catalytic generation of hydrogen. <i>Nanotechnology</i> , 2011, 22, 195604.	1.3	98
17	First application of core-shell Ag@Ni magnetic nanocatalyst for transfer hydrogenation reactions of aromatic nitro and carbonyl compounds. <i>RSC Advances</i> , 2013, 3, 1050-1054.	1.7	84
18	Shape-Selective Formation of Monodisperse Copper Nanospheres and Nanocubes via Disproportionation Reaction Route and Their Optical Properties. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9801-9808.	1.5	84

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19	Microanalysis of ambient particles from Lexington, KY, by electron microscopy. Atmospheric Environment, 2006, 40, 651-663.	1.9	82
20	Investigation of the Microcharacteristics of PM _{2.5} in Residual Oil Fly Ash by Analytical Transmission Electron Microscopy. Environmental Science & Technology, 2004, 38, 6553-6560.	4.6	80
21	Investigation of primary fine particulate matter from coal combustion by computer-controlled scanning electron microscopy. Fuel Processing Technology, 2004, 85, 743-761.	3.7	76
22	Influence of substrate temperature on mechanical, optical and electrical properties of ZnO:Al films. Journal of Alloys and Compounds, 2010, 508, 370-374.	2.8	72
23	Structure, optical and magnetic properties of Ni@Au and Au@Ni nanoparticles synthesized via non-aqueous approaches. Journal of Materials Chemistry, 2012, 22, 2757-2765.	6.7	70
24	Co ₂ P Nanorods as an Efficient Cocatalyst Decorated Porous g-C ₃ N ₄ Nanosheets for Photocatalytic Hydrogen Production under Visible Light Irradiation. Particle and Particle Systems Characterization, 2018, 35, 1700251.	1.2	69
25	CoO nanocrystals as a highly active catalyst for the generation of hydrogen from hydrolysis of sodium borohydride. Journal of Power Sources, 2012, 220, 391-398.	4.0	67
26	One-pot synthesis of hexagonal and triangular nickel-copper alloy nanoplates and their magnetic and catalytic properties. Journal of Materials Chemistry, 2012, 22, 8336.	6.7	66
27	Synthesis of iron-nickel nanoparticles via a nonaqueous organometallic route. Materials Chemistry and Physics, 2009, 113, 412-416.	2.0	65
28	Magnetic metal phosphide nanorods as effective hydrogen-evolution electrocatalysts. International Journal of Hydrogen Energy, 2014, 39, 18919-18928.	3.8	62
29	Preparation of hexagonal close-packed nickel nanoparticles via a thermal decomposition approach using nickel acetate tetrahydrate as a precursor. Journal of Alloys and Compounds, 2009, 476, 864-868.	2.8	60
30	Measurement of fine particulate matter using electron microscopy techniques. Fuel Processing Technology, 2004, 85, 763-779.	3.7	59
31	Emissions of Chromium, Copper, Arsenic, and PCDDs/Fs from Open Burning of CCA-Treated Wood. Environmental Science & Technology, 2005, 39, 8865-8876.	4.6	59
32	Solution-phase synthesis of nickel phosphide single-crystalline nanowires. Journal of Crystal Growth, 2009, 311, 1229-1233.	0.7	59
33	Engineering oxygen vacancies in hierarchically Li-rich layered oxide porous microspheres for high-rate lithium ion battery cathode. Science China Materials, 2019, 62, 1374-1384.	3.5	58
34	Seed-Induced Growth of Flower-Like Au-Ni-ZnO Metal-Semiconductor Hybrid Nanocrystals for Photocatalytic Applications. Small, 2015, 11, 1460-1469.	5.2	55
35	Facile preparation and microwave absorption properties of porous Co/CoO microrods. Journal of Alloys and Compounds, 2017, 721, 411-418.	2.8	52
36	Colloidal synthesis of MoSe ₂ nanonetworks and nanoflowers with efficient electrocatalytic hydrogen-evolution activity. Electrochimica Acta, 2017, 231, 69-76.	2.6	49

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37	Lithium-rich layered oxide nanowires bearing porous structures and spinel domains as cathode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2019, 418, 122-129.	4.0	40
38	Shape-dependent magnetic and microwave absorption properties of iron oxide nanocrystals. <i>Materials Chemistry and Physics</i> , 2017, 192, 339-348.	2.0	35
39	Shape-related optical and catalytic properties of wurtzite-type CoO nanoplates and nanorods. <i>Nanotechnology</i> , 2014, 25, 035707.	1.3	32
40	Controllable synthesis of Cu@Ni core-shell nanoparticles and nanowires with tunable magnetic properties. <i>Chemical Communications</i> , 2016, 52, 6918-6921.	2.2	30
41	Effect of Component Distribution and Nanoporosity in CuPt Nanotubes on Electrocatalysis of the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2015, 8, 486-494.	3.6	28
42	Electron transport properties of magnetic granular films. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 15-28.	2.0	25
43	From a Au-rich core/PtNi-rich shell to a Ni-rich core/PtAu-rich shell: an effective thermochemical pathway to nanoengineering catalysts for fuel cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5143-5155.	5.2	25
44	Size- and Structure-Controlled Synthesis and Characterization of Nickel Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5157-5163.	0.9	22
45	Solution synthesis of triangular and hexagonal nickel nanosheets with the aid of tungsten hexacarbonyl. <i>CrystEngComm</i> , 2016, 18, 1295-1301.	1.3	22
46	Characterization of Ambient Airborne Particles by Energy-Filtered Transmission Electron Microscopy. <i>Aerosol Science and Technology</i> , 2005, 39, 509-518.	1.5	19
47	Preparation of monodisperse Ni nanoparticles and their assembly into 3D nanoparticle superlattices. <i>Materials Chemistry and Physics</i> , 2014, 147, 604-610.	2.0	19
48	Cu@Ni core-shell nanoparticles prepared via an injection approach with enhanced oxidation resistance for the fabrication of conductive films. <i>Nanotechnology</i> , 2020, 31, 355601.	1.3	19
49	MoSe ₂ -Ni ₃ Se ₄ Hybrid Nanoelectrocatalysts and Their Enhanced Electrocatalytic Activity for Hydrogen Evolution Reaction. <i>Nanoscale Research Letters</i> , 2020, 15, 132.	3.1	19
50	Synthesis of Ni@Au@ZnO ternary magnetic hybrid nanocrystals with enhanced photocatalytic activity. <i>Nanoscale</i> , 2015, 7, 11371-11378.	2.8	17
51	Phase-controlled synthesis and magnetic properties of cubic and hexagonal CoO nanocrystals. <i>Nanotechnology</i> , 2016, 27, 455602.	1.3	17
52	Preparation of multi-branched Au@ZnO hybrid nanocrystals on graphene for enhanced photocatalytic performance. <i>Materials Letters</i> , 2015, 161, 379-383.	1.3	15
53	Colloidal synthesis of Cu@ZnO and Cu@CuNi@ZnO hybrid nanocrystals with controlled morphologies and multifunctional properties. <i>Nanoscale</i> , 2016, 8, 11602-11610.	2.8	15
54	Preparation of porous Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ micro-cubes for high-capacity lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155152.	2.8	15

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55	A facile approach to fabrication of well-dispersed NiO@ZnO composite hollow microspheres. RSC Advances, 2013, 3, 24430-24439.	1.7	14
56	A Nonaqueous Approach to the Preparation of Iron Phosphide Nanowires. Nanoscale Research Letters, 2010, 5, 786-790.	3.1	11
57	Injection synthesis of Ni@Cu@Au@Cu nanowires with tunable magnetic and plasmonic properties. Chemical Communications, 2013, 49, 11545.	2.2	11
58	Monodisperse core-shell Li ₄ Ti ₅ O ₁₂ @C submicron particles as high-rate anode materials for lithium-ion batteries. Electrochimica Acta, 2021, 390, 138874.	2.6	11
59	Blue-luminescent hafnia nanoclusters synthesized by plasma gas-phase method. Materials Chemistry and Physics, 2011, 130, 823-826.	2.0	10
60	Synthesis and photocatalytic properties of multi-morphological AuCu ₃ -ZnO hybrid nanocrystals. Nanotechnology, 2015, 26, 415602.	1.3	8
61	Chemical Synthesis of Monodisperse Fe@Ni Nanoparticles via a Diffusion-Based Approach. Journal of Nanoscience and Nanotechnology, 2010, 10, 3053-3059.	0.9	7
62	Transition from paramagnetism to ferromagnetism in HfO ₂ nanorods. Journal of Applied Physics, 2013, 113, 076102.	1.1	7
63	A facile solution approach for the preparation of Ag@Ni core-shell nanocubes. Materials Letters, 2014, 116, 239-242.	1.3	7
64	Investigation on the self-assembly of gold nanoparticles into bidisperse nanoparticle superlattices. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 480, 11-18.	2.3	7
65	Electrical transport properties in Co nanocluster-assembled granular film. Journal of Applied Physics, 2017, 121, .	1.1	6
66	Nickel Colloidal Superparticles: Microemulsion-Based Self-Assembly Preparation and Their Transition from Room-Temperature Superparamagnetism to Ferromagnetism. Journal of Physical Chemistry C, 2021, 125, 5880-5889.	1.5	6
67	High-frequency magnetic characteristics of Fe-Co-based nanocrystalline alloy films. Science China Technological Sciences, 2010, 53, 1501-1506.	2.0	5
68	Preparation of Bimetallic Core-shell Nanoparticles with Magnetically Recyclable and High Catalytic Abilities. Procedia Engineering, 2012, 36, 504-509.	1.2	5
69	Hot-injection synthesis of Ni-ZnO hybrid nanocrystals with tunable magnetic properties and enhanced photocatalytic activity. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	5
70	Tungsten hexacarbonyl-induced growth of nickel nanorods and nanocubes. Materials Letters, 2018, 229, 340-343.	1.3	5
71	Preparation of Anisotropic Transition Metal Phosphide Nanocrystals: The Case of Nickel Phosphide Nanoplatelets, Nanorods, and Nanowires. Journal of Nanoscience and Nanotechnology, 2010, 10, 5175-5182.	0.9	4
72	High Frequency Characteristics of Fe ₆₅ Co ₃₅ Alloy Cluster-Assembled Films Prepared by Energetic Cluster Deposition. Journal of Nanoscience and Nanotechnology, 2011, 11, 11119-11123.	0.9	4

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73	Solution preparation of alloy core-shell nanoparticles: The case of Ni@Cu@Au@Cu nanoparticles. <i>Materials Letters</i> , 2013, 99, 180-183.	1.3	4
74	Photocatalysis: Co ₂ P Nanorods as an Efficient Cocatalyst Decorated Porous g-C ₃ N ₄ Nanosheets for Photocatalytic Hydrogen Production under Visible Light Irradiation (Part. Part. Syst. Charact. 1/2018). <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1870003.	1.2	4
75	Preparation of LiNi _{0.5} Mn _{1.5} O ₄ cathode materials by using different-sized Mn ₃ O ₄ nanocrystals as precursors. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 1359-1368.	1.2	3
76	Gas-phase synthesis and magnetism of HfO ₂ nanoclusters. <i>European Physical Journal D</i> , 2013, 67, 1.	0.6	2
77	Magnetic Properties of Oxygen-doping Fe-Co-based Nanocrystalline Alloy Films for High Frequency Application. <i>Procedia Engineering</i> , 2012, 36, 516-520.	1.2	1
78	Influence of surface and interface modification on the electrical transport behaviors in Co@Cu nanocomposite films. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 460, 34-40.	1.0	1
79	High frequency characteristics of Fe ₆₅ /Co ₃₅ alloy cluster-assembled films prepared by energetic cluster deposition. , 2010, , .		0