

# Huaqiang Cao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93  
papers

6,283  
citations

45  
h-index

79  
g-index

96  
ext. papers

6,746  
ext. citations

6.4  
avg, IF

5.88  
L-index

#	Paper	IF	Citations
93	Engineering VO-Ti ensemble to boost the activity of Ru towards water dissociation for catalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 306, 121100	21.8	4
92	Atomic-bridge structure in B-Co-P dual-active sites on boron nitride nanosheets for catalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 121495	21.8	2
91	LiMnO@rGO nanocomposites for high-performance lithium-ion battery cathodes. <i>Nanotechnology</i> , <b>2021</b> , 32, 015402	3.4	2
90	Advances and Prospects in Metal-Organic Frameworks as Key Nexus for Chemocatalytic Hydrogen Production. <i>Small</i> , <b>2021</b> , e2102201	11	1
89	Engineering Bimodal Oxygen Vacancies and Pt to Boost the Activity Toward Water Dissociation. <i>Small</i> , <b>2021</b> , e2105588	11	2
88	Thickness-dependent Young's modulus of polycrystalline $\beta$ -PbO nanosheets. <i>Nanotechnology</i> , <b>2020</b> , 31, 395712	3.4	0
87	Synthesis of Sub-nanometer Porous Carbon Film for Energy Storage. <i>Chemistry - an Asian Journal</i> , <b>2020</b> , 15, 2992-2995	4.5	
86	Unzipping of black phosphorus to form zigzag-phosphorene nanobelts. <i>Nature Communications</i> , <b>2020</b> , 11, 3917	17.4	21
85	Synthesis of two-dimensional porous aromatic frameworks via triple condensation reaction. <i>Materials Today Advances</i> , <b>2019</b> , 2, 100013	7.4	1
84	Efficient carbon-based catalyst derived from natural cattail fiber for hydrogen evolution reaction. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 274, 207-214	3.3	15
83	Synthesis and superior cathode performance of sandwiched LiMn <sub>2</sub> O <sub>4</sub> @rGO nanocomposites for lithium-ion batteries. <i>Materials Today Advances</i> , <b>2019</b> , 1, 100001	7.4	12
82	Local Plant-Derived Carbon Sheets as Sustainable Catalysts for Efficient Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 2107-2115	8.3	20
81	Defect-rich (Co <sub>1-x</sub> Mo <sub>x</sub> S <sub>2</sub> ) <sub>x</sub> @Co <sub>9</sub> S <sub>8</sub> nanosheets derived from monomolecular precursor pyrolysis with excellent catalytic activity for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7977-7987	13	32
80	Pt nanoparticles decorated rose-like BiOCO configurations for efficient photocatalytic removal of water organic pollutants.. <i>RSC Advances</i> , <b>2018</b> , 8, 914-920	3.7	7
79	Functionalized polyimide separators enable high performance lithium sulfur batteries at elevated temperature. <i>Journal of Power Sources</i> , <b>2018</b> , 396, 542-550	8.9	29
78	Solvothermal synthesis of magnetic CoFe <sub>2</sub> O <sub>4</sub> /rGO nanocomposites for highly efficient dye removal in wastewater. <i>RSC Advances</i> , <b>2017</b> , 7, 4062-4069	3.7	46
77	3D dendritic-Fe <sub>2</sub> O <sub>3</sub> @C nanoparticles as an anode material for lithium ion batteries. <i>RSC Advances</i> , <b>2017</b> , 7, 18508-18511	3.7	7

76	Co-Co <sub>3</sub> O <sub>4</sub> @carbon core/shells derived from metal-organic framework nanocrystals as efficient hydrogen evolution catalysts. <i>Nano Research</i> , <b>2017</b> , 10, 3035-3048	10	76
75	Synthesis, Characterization, and Applications of Zero-Dimensional (0D) Nanostructures <b>2017</b> , 21-146		3
74	Synthesis, Characterization, and Application of One-Dimensional (1D) Nanostructures <b>2017</b> , 147-219		
73	Synthesis, Characterization, and Applications of Two-Dimensional (2D) Graphene-Related Nanostructures <b>2017</b> , 221-361		
72	Synthesis, Characterization, and Applications of Three-Dimensional (3D) Nanostructures <b>2017</b> , 363-520		2
71	Structural Evolution of Co-Based Metal Organic Frameworks in Pyrolysis for Synthesis of Core-Shells on Nanosheets: Co@CoO <sub>x</sub> @Carbon-rGO Composites for Enhanced Hydrogen Generation Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 15430-8	9.5	40
70	Magnetic catalysts as nanoactuators to achieve simultaneous momentum-transfer and continuous-flow hydrogen production. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4280-4287	13	30
69	One-step synthesis of SnO <sub>2</sub> -reduced graphene oxide (SOG) composites for efficient removal of organic dyes from wastewater. <i>RSC Advances</i> , <b>2016</b> , 6, 100636-100642	3.7	8
68	Space-confined creation of nanoframes in situ on reduced graphene oxide. <i>Small</i> , <b>2015</b> , 11, 1512-8	11	6
67	Anchoring superparamagnetic core/shells onto reduced graphene oxide: fabrication of Ni@carbon-rGO nanocomposite for effective adsorption and separation. <i>RSC Advances</i> , <b>2015</b> , 5, 10033-10039	3.7	10
66	Hydrothermal fabrication of MnCO <sub>3</sub> @rGO composite as an anode material for high-performance lithium ion batteries. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 9228-34	5.1	78
65	Graphene Covalently Modified by DNA G-Base. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 3513-3519	3.8	10
64	Synthesis and Applications of Tungsten Oxide Hierarchical Nanostructures. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 759-769	3.5	64
63	Graphite/graphene oxide composite as high capacity and binder-free anode material for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 241, 619-626	8.9	46
62	Synthesis of adenine-modified reduced graphene oxide nanosheets. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 2954-50	5.0	47
61	SnS <sub>2</sub> @reduced graphene oxide nanocomposites as anode materials with high capacity for rechargeable lithium ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23963		87
60	SnO <sub>2</sub> @carbon-rGO heterogeneous electrode materials with enhanced anode performances in lithium ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 2851		61
59	Enhanced anode performances of polyaniline-TiO <sub>2</sub> -reduced graphene oxide nanocomposites for lithium ion batteries. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 9544-51	5.1	77

58	Synthesis and separation of dyes via Ni@reduced graphene oxide nanostructures. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 1876-1883		76
57	Synthesis and superior anode performance of TiO <sub>2</sub> @reduced graphene oxide nanocomposites for lithium ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9759		121
56	Biom mineralization Strategy to Mn <sub>2</sub> O <sub>3</sub> Hierarchical Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 21109-21115	3.8	33
55	Self-assembly into magnetic Co <sub>3</sub> O <sub>4</sub> complex nanostructures as peroxidase. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 527-534		107
54	Synthesis and photocatalytic activity of single-crystalline hollow rh-In <sub>2</sub> O <sub>3</sub> nanocrystals. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 6529-36	5.1	52
53	Ferromagnetic hematite@graphene nanocomposites for removal of rhodamine B dye molecules from water. <i>CrystEngComm</i> , <b>2012</b> , 14, 5140	3.3	40
52	Co <sub>3</sub> O <sub>4</sub> @graphene composites as anode materials for high-performance lithium ion batteries. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 1628-32	5.1	324
51	Improved performances of Ni(OH) <sub>2</sub> @reduced-graphene-oxide in Ni-MH and Li-ion batteries. <i>Chemical Communications</i> , <b>2011</b> , 47, 3159-61	5.8	113
50	Shape controlled synthesis of superhydrophobic zinc coordination polymers particles and their calcination to superhydrophobic ZnO. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 8633		31
49	Superparamagnetic Fe <sub>3</sub> O <sub>4</sub> nanocrystals@graphene composites for energy storage devices. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 5069		316
48	Cu <sub>2</sub> O@reduced graphene oxide composite for removal of contaminants from water and supercapacitors. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10645		183
47	The synthesis and photocatalytic activity of ZnSe microspheres. <i>Nanotechnology</i> , <b>2011</b> , 22, 015604	3.4	34
46	MoO <sub>3</sub> nanowires as electrochemical pseudocapacitor materials. <i>Chemical Communications</i> , <b>2011</b> , 47, 10305-7	5.8	123
45	Designed synthesis of SnO <sub>2</sub> -polyaniline-reduced graphene oxide nanocomposites as an anode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17654		110
44	Enhanced anode performances of the Fe <sub>3</sub> O <sub>4</sub> -carbon-rGO three dimensional composite in lithium ion batteries. <i>Chemical Communications</i> , <b>2011</b> , 47, 10374-6	5.8	172
43	ZnO@graphene composite with enhanced performance for the removal of dye from water. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3346-3349		525
42	Mg(OH) <sub>2</sub> @reduced graphene oxide composite for removal of dyes from water. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 13765		119
41	The synthesis and fluorescence quenching properties of well soluble hybrid graphene material covalently functionalized with indolizine. <i>Nanotechnology</i> , <b>2011</b> , 22, 075202	3.4	20

40	Generation and photocatalytic activities of Bi@Bi <sub>2</sub> O <sub>3</sub> microspheres. <i>Nano Research</i> , <b>2011</b> , 4, 470-482	10	170
39	Glucosan controlled biomineralization of SrCO <sub>3</sub> complex nanostructures with superhydrophobicity and adsorption properties. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 8734		29
38	Generation and superhydrophobicity of complex PbSe crystalline nanodendrites. <i>CrystEngComm</i> , <b>2011</b> , 13, 5688	3.3	14
37	MgCO <sub>3</sub> ·nH <sub>2</sub> O and MgO complex nanostructures: controllable biomimetic fabrication and physical chemical properties. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 5047-52	3.6	38
36	l-Serine-Assisted Synthesis of Superparamagnetic Fe <sub>3</sub> O <sub>4</sub> Nanocubes for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 24688-24695	3.8	60
35	Hydroxyapatite Nanocrystals for Biomedical Applications. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 18352-18357	3.8	92
34	Single-Crystalline Semiconductor In(OH) <sub>3</sub> Nanocubes with Bifunctions: Superhydrophobicity and Photocatalytic Activity. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 597-601	3.5	38
33	The synthesis of superhydrophobic Bi <sub>2</sub> S <sub>3</sub> complex nanostructures. <i>Nanotechnology</i> , <b>2010</b> , 21, 145601	3.4	54
32	Mg(OH) <sub>2</sub> Complex Nanostructures with Superhydrophobicity and Flame Retardant Effects. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 17362-17368	3.8	74
31	Ag <sub>2</sub> Se complex nanostructures with photocatalytic activity and superhydrophobicity. <i>Nano Research</i> , <b>2010</b> , 3, 863-873	10	46
30	Bioinspired peony-like beta-Ni(OH) <sub>2</sub> nanostructures with enhanced electrochemical activity and superhydrophobicity. <i>ChemPhysChem</i> , <b>2010</b> , 11, 489-94	3.2	43
29	Biomineralization and superhydrophobicity of BaCO <sub>3</sub> complex nanostructures. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 10326-9	5.1	29
28	l-Lysine-Assisted Synthesis of ZrO <sub>2</sub> Nanocrystals and Their Application in Photocatalysis. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 18259-18263	3.8	66
27	Amino Acid-Assisted Hydrothermal Synthesis and Photocatalysis of SnO <sub>2</sub> Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17893-17898	3.8	225
26	Biomolecule-assisted synthesis of water-soluble silver nanoparticles and their biomedical applications. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 5882-8	5.1	108
25	l-Cysteine-Assisted Synthesis and Optical Properties of Ag <sub>2</sub> S Nanospheres. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 3580-3584	3.8	130
24	Amino-acid-assisted synthesis and size-dependent magnetic behaviors of hematite nanocubes. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 013110	3.4	39
23	Crystallization and Self-Assembly of Calcium Carbonate Architectures. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 4583-4588	3.5	40

22	Shape control of PbS nanocrystals using multiple surfactants. <i>Nanotechnology</i> , <b>2008</b> , 19, 305605	3.4	34
21	L-Cysteine-Assisted Self-Assembly of Complex PbS Structures. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 3935-3940	3.4	33
20	Catalytic chemiluminescence properties of boehmite nanocoons. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 193105	3.4	12
19	Sol-gel template synthesis and photoluminescence of n- and p-type semiconductor oxide nanowires. <i>ChemPhysChem</i> , <b>2006</b> , 7, 497-501	3.2	47
18	Generation and growth mechanism of metal (Fe, Co, Ni) nanotube arrays. <i>ChemPhysChem</i> , <b>2006</b> , 7, 1500-1504	3.2	122
17	Shape and magnetic properties of single-crystalline hematite (alpha-Fe <sub>2</sub> O <sub>3</sub> ) nanocrystals. <i>ChemPhysChem</i> , <b>2006</b> , 7, 1897-901	3.2	106
16	Synthesis and I-V properties of aligned copper nanowires. <i>Nanotechnology</i> , <b>2006</b> , 17, 1736-9	3.4	43
15	Growth and photoluminescence properties of PbS nanocubes. <i>Nanotechnology</i> , <b>2006</b> , 17, 3280-3287	3.4	106
14	Sol-gel synthesis and photoluminescence of p-type semiconductor Cr <sub>2</sub> O <sub>3</sub> nanowires. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 241112	3.4	53
13	Growth and optical properties of wurtzite-type CdS nanocrystals. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 5103-8	5.1	118
12	Poly(ethylene glycol)-assisted two-dimensional self-assembly of zinc sulfide microspheres. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 4586-8	5.1	15
11	Generation and optical properties of monodisperse wurtzite-type ZnS microspheres. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 7316-22	5.1	82
10	Synthesis and Room-Temperature Ultraviolet Photoluminescence Properties of Zirconia Nanowires. <i>Advanced Functional Materials</i> , <b>2004</b> , 14, 243-246	15.6	149
9	Room-temperature ultraviolet-emitting In <sub>2</sub> O <sub>3</sub> nanowires. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 761-763	3.4	153
8	Synthesis and structure of a novel infinite triple helices coordination polymer {[Mn(bipy)(azpy) <sub>2</sub> (NCS) <sub>2</sub> ][H <sub>2</sub> O] <sub>n</sub> } (bipy=4,4'-bipyridine, azpy = 4,4'-azobispyridine). <i>Inorganic Chemistry Communication</i> , <b>2001</b> , 4, 451-453	3.1	29
7	Template Synthesis and Magnetic Behavior of an Array of Cobalt Nanowires Encapsulated in Polyaniline Nanotubules. <i>Advanced Materials</i> , <b>2001</b> , 13, 121-123	24	200
6	Sol-gel Template Synthesis of an Array of Single Crystal CdS Nanowires on a Porous Alumina Template. <i>Advanced Materials</i> , <b>2001</b> , 13, 1393-1394	24	167
5	Array of nickel nanowires enveloped in polyaniline nanotubules and its magnetic behavior. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1592-1594	3.4	51

4	An array of iron nanowires encapsulated in polyaniline nanotubes and its magnetic behavior. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 958-960		34
3	Sol-gel synthesis of an array of C70 single crystal nanowires in a porous alumina template. <i>Chemical Communications</i> , <b>2001</b> , 541-542	5.8	15
2	Sol-gel synthesis of yttria stabilized zirconia membranes through controlled hydrolysis of zirconium alkoxide. <i>Journal of Membrane Science</i> , <b>1999</b> , 162, 181-188	9.6	72
1	Successive Free-Radical C(sp <sup>2</sup> )-C(sp <sup>2</sup> ) Coupling Reactions to Form Graphene. <i>CCS Chemistry</i> , 2735-2748	7.2	1