

Huaqiang Cao

List of Publications by Year in descending order

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100
papers

7,088
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35280

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84
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102
all docs

102
docs citations

102
times ranked

9104
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron Spin Catalysis with Graphene Belts. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	15.0	19
2	Phase transition, optical, and elastic properties of a new hybrid organic-inorganic perovskite: [(i>R</i>)-(+)-3-aminoquinuclidine]Cl ₃ . <i>APL Materials</i> , 2023, 11, .	4.1	4
3	Antimonene quantum dots as bifunctional fluorescent sensors for rapid detection of cation (Fe ³⁺) and anions (CrO ₄ ²⁻ , Cr ₂ O ₇ ²⁻). <i>APL Materials</i> , 2023, 11, .	4.1	2
4	Alcohol imination catalyzed by carbon nanostructures synthesized by C(sp ²)-C(sp ³) free radical coupling. <i>IScience</i> , 2023, 26, 106659.	3.8	3
5	Single Non-Blinking Graphene Quantum Dots Identified by Single-Particle Catalysis. <i>Advanced Optical Materials</i> , 2023, 11, .	7.1	4
6	Non-Blinking Luminescence from Charged Single Graphene Quantum Dots. <i>Advanced Materials</i> , 2023, 35, .	24.7	16
7	Successive Free-Radical C(sp ²)-C(sp ³) Coupling on Graphene Quantum Dots. <i>Advanced Materials</i> , 2023, 35, .	8.9	15
8	Engineering VO-Ti ensemble to boost the activity of Ru towards water dissociation for catalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121100.	20.3	80
9	Engineering Bimodal Oxygen Vacancies and Pt to Boost the Activity Toward Water Dissociation. <i>Small</i> , 2022, 18, .	11.6	50
10	Atomic-bridge structure in B-Co-P dual-active sites on boron nitride nanosheets for catalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2022, 314, 121495.	20.3	58
11	Ultratough Hydrogen-Bond-Bridged Phosphorene Films. <i>Advanced Materials</i> , 2022, 34, .	24.7	11
12	Advances and Prospects in Metal-Organic Frameworks as Key Nexus for Chemocatalytic Hydrogen Production. <i>Small</i> , 2021, 17, .	11.6	20
13	LiMnO ₂ @rGO nanocomposites for high-performance lithium-ion battery cathodes. <i>Nanotechnology</i> , 2021, 32, 015402.	2.7	8
14	Synthesis of Sub-nanometer Porous Carbon Film for Energy Storage. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2992-2995.	3.1	0
15	Unzipping of black phosphorus to form zigzag-phosphorene nanobelts. <i>Nature Communications</i> , 2020, 11, .	14.1	67
16	Thickness-dependent Young's modulus of polycrystalline \pm -PbO nanosheets. <i>Nanotechnology</i> , 2020, 31, 395712.	2.7	5
17	Synthesis of two-dimensional porous aromatic frameworks via triple condensation reaction. <i>Materials Today Advances</i> , 2019, 2, 100013.	5.3	4
18	Efficient carbon-based catalyst derived from natural cattail fiber for hydrogen evolution reaction. <i>Journal of Solid State Chemistry</i> , 2019, 274, 207-214.	3.2	47

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19	Synthesis and superior cathode performance of sandwiched LiMn ₂ O ₄ @rGO nanocomposites for lithium-ion batteries. <i>Materials Today Advances</i> , 2019, 1, 100001.	5.3	21
20	Local Plant-Derived Carbon Sheets as Sustainable Catalysts for Efficient Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2107-2115.	7.0	27
21	Defect-rich (Co ^x CoS ₂) _x @Co ₉ S ₈ nanosheets derived from monomolecular precursor pyrolysis with excellent catalytic activity for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7977-7987.	9.3	48
22	Pt nanoparticles decorated rose-like Bi ₂ O ₂ CO ₃ configurations for efficient photocatalytic removal of water organic pollutants. <i>RSC Advances</i> , 2018, 8, 914-920.	4.5	8
23	Functionalized polyimide separators enable high performance lithium sulfur batteries at elevated temperature. <i>Journal of Power Sources</i> , 2018, 396, 542-550.	8.0	48
24	Solvothermal synthesis of magnetic CoFe ₂ O ₄ /rGO nanocomposites for highly efficient dye removal in wastewater. <i>RSC Advances</i> , 2017, 7, 4062-4069.	4.5	62
25	3D dendritic-Fe ₂ O ₃ @C nanoparticles as an anode material for lithium ion batteries. <i>RSC Advances</i> , 2017, 7, 18508-18511.	4.5	7
26	Co-Co ₃ O ₄ @carbon core-shell derived from metal-organic framework nanocrystals as efficient hydrogen evolution catalysts. <i>Nano Research</i> , 2017, 10, 3035-3048.	8.5	116
27	Introduction. , 2017, , 1-19.		0
28	Synthesis, Characterization, and Applications of Zero-Dimensional (0D) Nanostructures. , 2017, , 21-146.		3
29	Synthesis, Characterization, and Application of One-Dimensional (1D) Nanostructures. , 2017, , 1-19.		0
30	Synthesis, Characterization, and Applications of Two-Dimensional (2D) Graphene-Related Nanostructures. , 2017, , 221-361.		0
31	Synthesis, Characterization, and Applications of Three-Dimensional (3D) Nanostructures. , 2017, , 1-19.		2
32	One-step synthesis of SnO ₂ -reduced graphene oxide (SOG) composites for efficient removal of organic dyes from wastewater. <i>RSC Advances</i> , 2016, 6, 100636-100642.	4.5	14
33	Structural Evolution of Co-Based Metal Organic Frameworks in Pyrolysis for Synthesis of Core-Shell on Nanosheets: Co@CoO _x @Carbon-rGO Composites for Enhanced Hydrogen Generation Activity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15430-15438.	8.1	54
34	Magnetic catalysts as nanoactuators to achieve simultaneous momentum-transfer and continuous-flow hydrogen production. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4280-4287.	9.3	36
35	Anchoring superparamagnetic core-shell onto reduced graphene oxide: fabrication of Ni-carbon-rGO nanocomposite for effective adsorption and separation. <i>RSC Advances</i> , 2015, 5, 10033-10039.	4.5	12
36	Space-Confinement Creation of Nanoframes In Situ on Reduced Graphene Oxide. <i>Small</i> , 2015, 11, 1512-1518.	11.6	6

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37	Hydrothermal Fabrication of MnCO ₃ @rGO Composite as an Anode Material for High-Performance Lithium Ion Batteries. <i>Inorganic Chemistry</i> , 2014, 53, 9228-9234.	4.6	105
38	Graphene Covalently Modified by DNA G-Base. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3513-3519.	3.2	13
39	Synthesis and Applications of ¹³ C-Tungsten Oxide Hierarchical Nanostructures. <i>Crystal Growth and Design</i> , 2013, 13, 759-769.	3.5	76
40	Graphite/graphene oxide composite as high capacity and binder-free anode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 241, 619-626.	8.0	68
41	Synthesis of Adenine-Modified Reduced Graphene Oxide Nanosheets. <i>Inorganic Chemistry</i> , 2012, 51, 2954-2960.	4.6	60
42	SnS ₂ @reduced graphene oxide nanocomposites as anode materials with high capacity for rechargeable lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 23963.	8.1	93
43	SnO ₂ @carbon@rGO heterogeneous electrode materials with enhanced anode performances in lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 2851.	8.1	64
44	Enhanced Anode Performances of Polyaniline@TiO ₂ @Reduced Graphene Oxide Nanocomposites for Lithium Ion Batteries. <i>Inorganic Chemistry</i> , 2012, 51, 9544-9551.	4.6	85
45	Synthesis and separation of dyes via Ni@reduced graphene oxide nanostructures. <i>Journal of Materials Chemistry</i> , 2012, 22, 1876-1883.	8.1	83
46	Synthesis and superior anode performance of TiO ₂ @reduced graphene oxide nanocomposites for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 9759.	8.1	127
47	Biom mineralization Strategy to ¹³ C-Mn ₂ O ₃ Hierarchical Nanostructures. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21109-21115.	3.2	39
48	Self-assembly into magnetic Co ₃ O ₄ complex nanostructures as peroxidase. <i>Journal of Materials Chemistry</i> , 2012, 22, 527-534.	8.1	116
49	Synthesis and Photocatalytic Activity of Single-Crystalline Hollow rh-In ₂ O ₃ Nanocrystals. <i>Inorganic Chemistry</i> , 2012, 51, 6529-6536.	4.6	63
50	Ferromagnetic hematite@graphene nanocomposites for removal of rhodamine B dye molecules from water. <i>CrystEngComm</i> , 2012, 14, 5140.	2.5	41
51	Glucosan controlled biom mineralization of SrCO ₃ complex nanostructures with superhydrophobicity and adsorption properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 8734.	8.1	32
52	Generation and superhydrophobicity of complex PbSe crystalline nanodendrites. <i>CrystEngComm</i> , 2011, 13, 5688.	2.5	13
53	MgCO ₃ ·3H ₂ O and MgO complex nanostructures: controllable biomimetic fabrication and physical chemical properties. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5047-5052.	2.8	45
54	l-Serine-Assisted Synthesis of Superparamagnetic Fe ₃ O ₄ Nanocubes for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24688-24695.	3.2	62

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55	Co ₃ O ₄ @graphene Composites as Anode Materials for High-Performance Lithium Ion Batteries. Inorganic Chemistry, 2011, 50, 1628-1632.	4.6	354
56	Improved performances of Ni(OH) ₂ @reduced-graphene-oxide in Ni-MH and Li-ion batteries. Chemical Communications, 2011, 47, 3159.	4.2	126
57	Shape controlled synthesis of superhydrophobic zinc coordination polymers particles and their calcination to superhydrophobic ZnO. Journal of Materials Chemistry, 2011, 21, 8633.	8.1	32
58	Superparamagnetic Fe ₃ O ₄ nanocrystals@graphene composites for energy storage devices. Journal of Materials Chemistry, 2011, 21, 5069.	8.1	336
59	Cu ₂ O@reduced graphene oxide composite for removal of contaminants from water and supercapacitors. Journal of Materials Chemistry, 2011, 21, 10645.	8.1	201
60	The synthesis and photocatalytic activity of ZnSe microspheres. Nanotechnology, 2011, 22, 015604.	2.7	40
61	MoO ₃ nanowires as electrochemical pseudocapacitor materials. Chemical Communications, 2011, 47, 10305.	4.2	135
62	Designed synthesis of SnO ₂ -polyaniline-reduced graphene oxide nanocomposites as an anode material for lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 17654.	8.1	115
63	Enhanced anode performances of the Fe ₃ O ₄ @Carbon@rGO three dimensional composite in lithium ion batteries. Chemical Communications, 2011, 47, 10374.	4.2	178
64	ZnO@graphene composite with enhanced performance for the removal of dye from water. Journal of Materials Chemistry, 2011, 21, 3346-3349.	8.1	565
65	Mg(OH) ₂ @reduced graphene oxide composite for removal of dyes from water. Journal of Materials Chemistry, 2011, 21, 13765.	8.1	130
66	The synthesis and fluorescence quenching properties of well soluble hybrid graphene material covalently functionalized with indolizine. Nanotechnology, 2011, 22, 075202.	2.7	19
67	Generation and photocatalytic activities of Bi@Bi ₂ O ₃ microspheres. Nano Research, 2011, 4, 470-482.	8.5	205
68	Mg(OH) ₂ Complex Nanostructures with Superhydrophobicity and Flame Retardant Effects. Journal of Physical Chemistry C, 2010, 114, 17362-17368.	3.2	86
69	Ag ₂ Se complex nanostructures with photocatalytic activity and superhydrophobicity. Nano Research, 2010, 3, 863-873.	8.5	58
70	Bioinspired Peony-Like Ni(OH) ₂ Nanostructures with Enhanced Electrochemical Activity and Superhydrophobicity. ChemPhysChem, 2010, 11, 489-494.	2.0	43
71	Hydroxyapatite Nanocrystals for Biomedical Applications. Journal of Physical Chemistry C, 2010, 114, 18352-18357.	3.2	107
72	Single-Crystalline Semiconductor In(OH) ₃ Nanocubes with Bifunctions: Superhydrophobicity and Photocatalytic Activity. Crystal Growth and Design, 2010, 10, 597-601.	3.5	41

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73	The synthesis of superhydrophobic Bi ₂ S ₃ complex nanostructures. Nanotechnology, 2010, 21, 145601.	2.7	60
74	Biom mineralization and Superhydrophobicity of BaCO ₃ Complex Nanostructures. Inorganic Chemistry, 2009, 48, 10326-10329.	4.6	33
75	Lysine-Assisted Synthesis of ZrO ₂ Nanocrystals and Their Application in Photocatalysis. Journal of Physical Chemistry C, 2009, 113, 18259-18263.	3.2	73
76	Amino Acid-Assisted Hydrothermal Synthesis and Photocatalysis of SnO ₂ Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 17893-17898.	3.2	252
77	Cysteine-Assisted Self-Assembly of Complex PbS Structures. Crystal Growth and Design, 2008, 8, 3935-3940.	3.5	36
78	Biomolecule-Assisted Synthesis of Water-Soluble Silver Nanoparticles and Their Biomedical Applications. Inorganic Chemistry, 2008, 47, 5882-5888.	4.6	112
79	Cysteine-Assisted Synthesis and Optical Properties of Ag ₂ S Nanospheres. Journal of Physical Chemistry C, 2008, 112, 3580-3584.	3.2	141
80	Amino-acid-assisted synthesis and size-dependent magnetic behaviors of hematite nanocubes. Applied Physics Letters, 2008, 92, .	3.2	37
81	Crystallization and Self-Assembly of Calcium Carbonate Architectures. Crystal Growth and Design, 2008, 8, 4583-4588.	3.5	42
82	Shape control of PbS nanocrystals using multiple surfactants. Nanotechnology, 2008, 19, 305605.	2.7	37
83	Catalytic chemiluminescence properties of boehmite nanocoils. Applied Physics Letters, 2007, 90, 193105.	3.2	11
84	Synthesis and properties of aligned copper nanowires. Nanotechnology, 2006, 17, 1736-1739.	2.7	43
85	Growth and photoluminescence properties of PbS nanocubes. Nanotechnology, 2006, 17, 3280-3287.	2.7	117
86	Sol-gel synthesis and photoluminescence of p-type semiconductor Cr ₂ O ₃ nanowires. Applied Physics Letters, 2006, 88, 241112.	3.2	68
87	Growth and Optical Properties of Wurtzite-Type CdS Nanocrystals. Inorganic Chemistry, 2006, 45, 5103-5108.	4.6	124
88	Poly(ethylene glycol)-Assisted Two-Dimensional Self-Assembly of Zinc Sulfide Microspheres. Inorganic Chemistry, 2006, 45, 4586-4588.	4.6	16
89	Generation and Optical Properties of Monodisperse Wurtzite-Type ZnS Microspheres. Inorganic Chemistry, 2006, 45, 7316-7322.	4.6	84
90	Sol-Gel Template Synthesis and Photoluminescence of n- and p-Type Semiconductor Oxide Nanowires. ChemPhysChem, 2006, 7, 497-501.	2.0	50

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91	Generation and Growth Mechanism of Metal (Fe, Co, Ni) Nanotube Arrays. ChemPhysChem, 2006, 7, 1500-1504.	2.0	130
92	Shape and Magnetic Properties of Single-Crystalline Hematite (α -Fe ₂ O ₃) Nanocrystals. ChemPhysChem, 2006, 7, 1897-1901.	2.0	108
93	Synthesis and Room-Temperature Ultraviolet Photoluminescence Properties of Zirconia Nanowires. Advanced Functional Materials, 2004, 14, 243-246.	17.1	166
94	Room-temperature ultraviolet-emitting In ₂ O ₃ nanowires. Applied Physics Letters, 2003, 83, 761-763.	3.2	167
95	An array of iron nanowires encapsulated in polyaniline nanotubules and its magnetic behavior. Journal of Materials Chemistry, 2001, 11, 958-960.	8.1	32
96	Sol-gel synthesis of an array of C70 single crystal nanowires in a porous alumina template. Chemical Communications, 2001, , 541-542.	4.2	15
97	Synthesis and structure of a novel infinite triple helices coordination polymer $\{[\text{Mn}(\text{bipy})(\text{azpy})_2(\text{NCS})_2] \cdot \text{H}_2\text{O}\}_n$ (bipy=4,4'-bipyridine, azpy = 4,4'-azobispyridine). Inorganic Chemistry Communication, 2001, 4, 451-453.	4.9	29
98	Template Synthesis and Magnetic Behavior of an Array of Cobalt Nanowires Encapsulated in Polyaniline Nanotubules. Advanced Materials, 2001, 13, 121-123.	24.7	220
99	Array of nickel nanowires enveloped in polyaniline nanotubules and its magnetic behavior. Applied Physics Letters, 2001, 78, 1592-1594.	3.2	51
100	Electron spin catalysis with graphene belts. Angewandte Chemie, 0, , .	1.5	0