

Haolan Xu

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103
papers

7,745
citations

46
h-index

87
g-index

113
ext. papers

9,527
ext. citations

7.8
avg, IF

6.6
L-index

#	Paper	IF	Citations
103	Bi ₂ WO ₆ nano- and microstructures: shape control and associated visible-light-driven photocatalytic activities. <i>Small</i> , 2007 , 3, 1618-25	11	525
102	Shape evolution and size-controllable synthesis of Cu ₂ O octahedra and their morphology-dependent photocatalytic properties. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13829-34	3.4	489
101	Template synthesis of multishelled Cu ₂ O hollow spheres with a single-crystalline shell wall. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1489-92	16.4	445
100	Fabrication of flower-like Bi ₂ WO ₆ superstructures as high performance visible-light driven photocatalysts. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2526		412
99	Bi ₂ O ₃ hierarchical nanostructures: controllable synthesis, growth mechanism, and their application in photocatalysis. <i>Chemistry - A European Journal</i> , 2009 , 15, 1776-82	4.8	370
98	Highly regenerable mussel-inspired Fe ₃ O ₄ @polydopamine-Ag core-shell microspheres as catalyst and adsorbent for methylene blue removal. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8845-52	9.5	329
97	A sonochemical route to visible-light-driven high-activity BiVO ₄ photocatalyst. <i>Journal of Molecular Catalysis A</i> , 2006 , 252, 120-124		309
96	Single-Crystalline BiVO ₄ Microtubes with Square Cross-Sections: Microstructure, Growth Mechanism, and Photocatalytic Property. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13659-13664	3.8	232
95	A flexible photothermal cotton-CuS nanocage-agarose aerogel towards portable solar steam generation. <i>Nano Energy</i> , 2019 , 56, 708-715	17.1	210
94	New Bi ₂ WO ₆ Nanocages with High Visible-Light-Driven Photocatalytic Activities Prepared in Refluxing EG. <i>Crystal Growth and Design</i> , 2009 , 9, 991-996	3.5	191
93	Graphene and Rice-Straw-Fiber-Based 3D Photothermal Aerogels for Highly Efficient Solar Evaporation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15279-15287	9.5	146
92	A Plant-Transpiration-Process-Inspired Strategy for Highly Efficient Solar Evaporation. <i>Advanced Sustainable Systems</i> , 2017 , 1, 1700046	5.9	138
91	Photothermal materials: A key platform enabling highly efficient water evaporation driven by solar energy. <i>Materials Today Energy</i> , 2019 , 12, 277-296	7	131
90	Tailoring Acidic Oxygen Reduction Selectivity on Single-Atom Catalysts via Modification of First and Second Coordination Spheres. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7819-7827	16.4	126
89	Evaporation above a bulk water surface using an oil lamp inspired highly efficient solar-steam generation strategy. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12267-12274	13	125
88	Molecular Mimetic Self-Assembly of Colloidal Particles. <i>Advanced Functional Materials</i> , 2010 , 20, 1053-1074	7.46	120
87	A photothermal reservoir for highly efficient solar steam generation without bulk water. <i>Science Bulletin</i> , 2019 , 64, 1625-1633	10.6	114

86	Hierarchical-Oriented Attachment: From One-Dimensional Cu(OH) ₂ Nanowires to Two-Dimensional CuO Nanoleaves. <i>Crystal Growth and Design</i> , 2007 , 7, 2720-2724	3.5	113
85	Efficient Methylene Blue Removal over Hydrothermally Synthesized Starlike BiVO ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 1735-1739	3.9	111
84	Boosting solar steam generation by structure enhanced energy management. <i>Science Bulletin</i> , 2020 , 65, 1380-1388	10.6	109
83	Tailoring Selectivity of Electrochemical Hydrogen Peroxide Generation by Tunable Pyrrolic-Nitrogen-Carbon. <i>Advanced Energy Materials</i> , 2020 , 10, 2000789	21.8	108
82	Controllable Synthesis of Three-Dimensional Well-Defined BiVO ₄ Mesocrystals via a Facile Additive-Free Aqueous Strategy. <i>Crystal Growth and Design</i> , 2008 , 8, 728-733	3.5	105
81	Monodisperse, Mesoporous ZnxCd _{1-x} S Nanoparticles as Stable Visible-Light-Driven Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16754-16758	3.8	101
80	Reversing heat conduction loss: Extracting energy from bulk water to enhance solar steam generation. <i>Nano Energy</i> , 2020 , 78, 105269	17.1	101
79	Rapid seeded growth of monodisperse, quasi-spherical, citrate-stabilized gold nanoparticles via H ₂ O ₂ reduction. <i>Langmuir</i> , 2012 , 28, 13720-6	4	99
78	All-Cold Evaporation under One Sun with Zero Energy Loss by Using a Heatsink Inspired Solar Evaporator. <i>Advanced Science</i> , 2021 , 8, 2002501	13.6	97
77	Stackable nickel@cobalt@polydopamine nanosheet based photothermal sponges for highly efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11665-11673	13	91
76	Same materials, bigger output: A reversibly transformable 2D@D photothermal evaporator for highly efficient solar steam generation. <i>Nano Energy</i> , 2021 , 79, 105477	17.1	87
75	Synthesis of octahedral CuS nanocages via a solid-liquid reaction. <i>Nanotechnology</i> , 2006 , 17, 3649-3654	3.4	84
74	Substrate-Independent, Transparent Oil-Repellent Coatings with Self-Healing and Persistent Easy-Sliding Oil Repellency. <i>ACS Nano</i> , 2016 , 10, 1076-85	16.7	81
73	Sonochemical synthesis of crystalline CuS nanoplates via an in situ template route. <i>Materials Letters</i> , 2006 , 60, 2203-2206	3.3	78
72	Interfacial Basicity-Guided Formation of Polydopamine Hollow Capsules in Pristine O/W Emulsions Toward Understanding of Emulsion Template Roles. <i>Chemistry of Materials</i> , 2011 , 23, 5105-5110	9.6	77
71	Bi ₅ FeTi ₃ O ₁₅ Hierarchical Microflowers: Hydrothermal Synthesis, Growth Mechanism, and Associated Visible-Light-Driven Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17835-17843	3.8	77
70	Bi ₂ WO ₆ with significantly enhanced photocatalytic activities by nitrogen doping. <i>Materials Chemistry and Physics</i> , 2010 , 120, 155-159	4.4	76
69	Dual-Zone Photothermal Evaporator for Antisalt Accumulation and Highly Efficient Solar Steam Generation. <i>Advanced Functional Materials</i> , 2021 , 31, 2102618	15.6	69

68	The significant impact of polydopamine on the catalytic performance of the carried Au nanoparticles. <i>Chemical Communications</i> , 2015 , 51, 1469-71	5.8	67
67	Surface Patterning of Two-Dimensional Nanostructure-Embedded Photothermal Hydrogels for High-Yield Solar Steam Generation. <i>ACS Nano</i> , 2021 , 15, 10366-10376	16.7	66
66	Template Synthesis of Multishelled Cu ₂ O Hollow Spheres with a Single-Crystalline Shell Wall. <i>Angewandte Chemie</i> , 2007 , 119, 1511-1514	3.6	62
65	Fabrication of ordered SnO ₂ nanotube arrays via a template route. <i>Materials Chemistry and Physics</i> , 2006 , 99, 127-130	4.4	60
64	Template-Free Fabrication of CdMoO ₄ Hollow Spheres and Their Morphology-Dependent Photocatalytic Property. <i>Crystal Growth and Design</i> , 2008 , 8, 3595-3601	3.5	56
63	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14131-14137	16.4	56
62	Molecular and Surface Interactions between Polymer Flocculant Chitosan-g-polyacrylamide and Kaolinite Particles: Impact of Salinity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7327-7339	3.8	52
61	Porous single-crystalline CdS nanosheets as efficient visible light catalysts for aerobic oxidative coupling of amines to imines. <i>RSC Advances</i> , 2013 , 3, 22944	3.7	52
60	Electrostatic repulsion-controlled formation of polydopamine-gold Janus particles. <i>Langmuir</i> , 2012 , 28, 13060-5	4	51
59	Implementing Hybrid Energy Harvesting in 3D Spherical Evaporator for Solar Steam Generation and Synergic Water Purification. <i>Solar Rrl</i> , 2020 , 4, 2000232	7.1	49
58	Hierarchical CuO Colloidosomes and Their Structure Enhanced Photothermal Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12666-12672	3.8	47
57	Ultrafast colorimetric humidity-sensitive polyelectrolyte coating for touchless control. <i>Materials Horizons</i> , 2017 , 4, 72-82	14.4	45
56	Synergy of photocatalysis and photothermal effect in integrated 0D perovskite oxide/2D MXene heterostructures for simultaneous water purification and solar steam generation. <i>Applied Catalysis B: Environmental</i> , 2021 , 295, 120285	21.8	45
55	NiO Nanofibers as a Candidate for a Nanophotocathode. <i>Nanomaterials</i> , 2014 , 4, 256-266	5.4	44
54	Enhancing solar steam generation using a highly thermally conductive evaporator support. <i>Science Bulletin</i> , 2021 , 66, 2479-2479	10.6	41
53	Catalytic decomposition of hydrous hydrazine for hydrogen production. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 343-365	5.8	40
52	A Growth Model of Single Crystalline Hollow Spheres: Oriented Attachment of Cu ₂ O Nanoparticles to the Single Crystalline Shell Wall. <i>Crystal Growth and Design</i> , 2008 , 8, 3486-3489	3.5	40
51	Recent Progress in Lithium Lanthanum Titanate Electrolyte towards All Solid-State Lithium Ion Secondary Battery. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2019 , 44, 265-282	10.1	39

50	Interfacial nanodroplets guided construction of hierarchical Au, Au-Pt, and Au-Pd particles as excellent catalysts. <i>Scientific Reports</i> , 2014 , 4, 4849	4.9	37
49	A Hollow and Compressible 3D Photothermal Evaporator for Highly Efficient Solar Steam Generation without Energy Loss. <i>Solar Rrl</i> , 2021 , 5, 2100053	7.1	37
48	Self-Assembly of Monomeric Hydrophobic Photosensitizers with Short Peptides Forming Photodynamic Nanoparticles with Real-Time Tracking Property and without the Need of Release in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28420-28427	9.5	34
47	Janus-like Pickering emulsions and their controllable coalescence. <i>Chemical Communications</i> , 2013 , 49, 10871-3	5.8	33
46	A general method for selectively coating photothermal materials on 3D porous substrate surfaces towards cost-effective and highly efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24703-24709	13	30
45	Biomass derived Janus solar evaporator for synergic water evaporation and purification. <i>Sustainable Materials and Technologies</i> , 2020 , 25, e00180	5.3	29
44	Synthesis of Au and Pt Hollow Capsules with Single Holes via Pickering Emulsion Strategy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28055-28060	3.8	29
43	On the Synthesis of Au Nanoparticles Using EDTA as a Reducing Agent. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20958-20966	3.8	27
42	Unraveling the molecular interaction mechanism between graphene oxide and aromatic organic compounds with implications on wastewater treatment. <i>Chemical Engineering Journal</i> , 2019 , 358, 842-849	14.7	27
41	In-situ photo-reducing graphene oxide to create Zn _{0.5} Cd _{0.5} S porous nanosheets/RGO composites as highly stable and efficient photoelectrocatalysts for visible-light-driven water splitting. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 702-710	6.7	26
40	A micro-interface route to CuS superstructure composed of intersectional nanoplates. <i>Journal of Crystal Growth</i> , 2008 , 310, 2640-2643	1.6	25
39	Solvent Effects on the Formation of Surface Nanodroplets by Solvent Exchange. <i>Langmuir</i> , 2015 , 31, 12120-5	4	24
38	A facile strategy to porous materials: Coordination-assisted heterogeneous dissolution route to the spherical Cu ₂ O single crystallites with hierarchical pores. <i>Microporous and Mesoporous Materials</i> , 2006 , 95, 321-328	5.3	24
37	Ultra-fast Hygrometer based on U-shaped Optical Microfiber with Nanoporous Polyelectrolyte Coating. <i>Scientific Reports</i> , 2017 , 7, 7943	4.9	23
36	Mechanically Strong and Highly Stiff Supramolecular Polymer Composites Repairable at Ambient Conditions. <i>CCS Chemistry</i> , 2020 , 2, 280-292	7.2	23
35	Impact of Spontaneously Adsorbed Hydroxide Ions on Emulsification via Solvent Shifting. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23175-23180	3.8	20
34	Controllable, Surfactant-Free Growth of 2D, Scroll-Like Tellurium Nanocrystals via a Modified Polyol Process. <i>Crystal Growth and Design</i> , 2006 , 6, 2804-2808	3.5	20
33	Selective C-H bond cleavage/C-O bond formation of polyfluoroarenes with phenols and benzyl alcohols. <i>Journal of Fluorine Chemistry</i> , 2013 , 156, 51-60	2.1	19

32	Design and performance boost of a MOF-functionalized-wood solar evaporator through tuning the hydrogen-bonding interactions. <i>Nano Energy</i> , 2022 , 95, 107016	17.1	19
31	Understanding nanorheology and surface forces of confined thin films 2014 , 26, 3-14		17
30	Towards sustainable saline agriculture: Interfacial solar evaporation for simultaneous seawater desalination and saline soil remediation.. <i>Water Research</i> , 2022 , 212, 118099	12.5	16
29	Thinking outside the box: placing hydrophilic particles in an oil phase for the formation and stabilization of Pickering emulsions. <i>Chemical Science</i> , 2018 , 9, 4821-4829	9.4	15
28	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. <i>Angewandte Chemie</i> , 2021 , 133, 14250-14256	3.6	15
27	Recent Developments in Oxide-Based Ionic Conductors: Bulk Materials, Nanoionics, and Their Memory Applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2018 , 43, 47-82	10.1	14
26	Controlled synthesis of trigonal selenium nanowires via a facile solution route. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 83, 281-284	2.6	14
25	Robust polymer nanofilms with bioengineering and environmental applications via facile and highly efficient covalent layer-by-layer assembly. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3742-3750	7.3	14
24	Graphene-encapsulated nickel-copper bimetallic nanoparticle catalysts for electrochemical reduction of CO to CO. <i>Chemical Communications</i> , 2020 , 56, 11275-11278	5.8	13
23	Adsorbed emulsion droplets: capping agents for in situ heterogeneous engineering of particle surfaces. <i>Chemical Communications</i> , 2013 , 49, 11563-5	5.8	12
22	Oriented Attachment of Crystalline CuS Nanorods. <i>Chemistry Letters</i> , 2006 , 35, 264-265	1.7	12
21	Ultrasonic-induced growth of crystalline tellurium nanorods and related branched structures. <i>Journal of Crystal Growth</i> , 2006 , 295, 69-74	1.6	11
20	Highly Transparent and Self-Healable Solar Thermal Anti-/De-Icing Surfaces: When Ultrathin MXene Multilayers Marry Solid Slippery Self-Cleaning Coating.. <i>Advanced Materials</i> , 2021 , e2108232	24	11
19	Bio-template assisted synthesis of porous glutaraldehyde-polyethyleneimine particulate resin for selective copper ion binding and recovery.. <i>RSC Advances</i> , 2018 , 8, 12043-12052	3.7	7
18	Interfacial solar evaporation driven lead removal from a contaminated soil. <i>EcoMat</i> , e12140	9.4	6
17	Harvesting, sensing and regulating light based on photo-thermal effect of Cu@CuO mesh. <i>Green Energy and Environment</i> , 2017 , 2, 387-392	5.7	5
16	Formation, characterization and stability of oil nanodroplets on immersed substrates. <i>Advances in Colloid and Interface Science</i> , 2015 , 224, 17-32	14.3	5
15	Electrostatic Interaction-Controlled Formation of Pickering Emulsion for Continuous Flow Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1872-1882	9.5	5

14	Photodetector based on Vernier-Enhanced Fabry-Perot Interferometers with a Photo-Thermal Coating. <i>Scientific Reports</i> , 2017 , 7, 41895	4.9	4
13	Optical hygrometer using light-sheet skew-ray probed multimode fiber with polyelectrolyte coating. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126685	8.5	4
12	Improved super-capacitive performance of carbon foam supported CeOx nanoflowers by selective doping and UV irradiation. <i>RSC Advances</i> , 2014 , 4, 35067-35071	3.7	4
11	Electrodeposition of Mesoporous Co ₃ O ₄ Nanosheets on Carbon Foam for High Performance Supercapacitors. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-5	3.2	4
10	Formation of Aluminum Hydroxide-Doped Surface Passivating Layers on Pyrite for Acid Rock Drainage Control. <i>Environmental Science & Technology</i> , 2018 , 52, 11786-11795	10.3	4
9	Short-Range Non-Bending Fully Distributed Water/Humidity Sensors. <i>Journal of Lightwave Technology</i> , 2019 , 37, 2014-2022	4	3
8	A biomimetic interfacial solar evaporator for heavy metal soil remediation. <i>Chemical Engineering Journal</i> , 2022 , 435, 134793	14.7	3
7	Light-Sheet Skew-Ray Enhanced Pump-Absorption for Sensing. <i>Journal of Lightwave Technology</i> , 2019 , 37, 2140-2146	4	3
6	Understanding the surface properties and rheology of a silica suspension mediated by a comb-type poly(acrylic acid)/poly(ethylene oxide) (PAA/PEO) copolymer: effect of salinity. <i>Soft Matter</i> , 2018 , 14, 4810-4819	3.6	3
5	A bioinspired microreactor with interfacial regulation for maximizing selectivity in a catalytic reaction. <i>Chemical Communications</i> , 2020 , 56, 8059-8062	5.8	2
4	Photodetector with photothermal cascaded Fabry-Perot etalons 2017 ,		1
3	Light-Sheet Skew Ray-Enhanced Localized Surface Plasmon Resonance-Based Chemical Sensing. <i>ACS Sensors</i> , 2020 , 5, 127-132	9.2	1
2	Room temperature ionic liquid assisted synthesis of ultra-stable Au nanoparticles via a modified Brust-Schiffrin method. <i>RSC Advances</i> , 2016 , 6, 82394-82400	3.7	1
1	Recent Progress in Advanced Humidity Sensors. <i>Journal of Physics: Conference Series</i> , 2018 , 1065, 252008.3		3