

Minmin Gao

List of Publications by Year in descending order

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32
papers

5,512
citations

279798

23
h-index

395702

33
g-index

34
all docs

34
docs citations

34
times ranked

4656
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar absorber material and system designs for photothermal water vaporization towards clean water and energy production. <i>Energy and Environmental Science</i> , 2019, 12, 841-864.	30.8	1,235
2	Recent progress in solar-driven interfacial water evaporation: Advanced designs and applications. <i>Nano Energy</i> , 2019, 57, 507-518.	16.0	597
3	Solar-driven photothermal nanostructured materials designs and prerequisites for evaporation and catalysis applications. <i>Materials Horizons</i> , 2018, 5, 323-343.	12.2	513
4	Self-Contained Monolithic Carbon Sponges for Solar-Driven Interfacial Water Evaporation Distillation and Electricity Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1702149.	19.5	430
5	Plasmonic photothermic directed broadband sunlight harnessing for seawater catalysis and desalination. <i>Energy and Environmental Science</i> , 2016, 9, 3151-3160.	30.8	322
6	Shape Conformal and Thermal Insulative Organic Solar Absorber Sponge for Photothermal Water Evaporation and Thermoelectric Power Generation. <i>Advanced Energy Materials</i> , 2019, 9, 1900250.	19.5	286
7	Solar Absorber Gel: Localized Macro-Nano Heat Channeling for Efficient Plasmonic Au Nanoflowers Photothermic Vaporization and Triboelectric Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1800711.	19.5	256
8	Visible-to-NIR Photon Harvesting: Progressive Engineering of Catalysts for Solar-Powered Environmental Purification and Fuel Production. <i>Advanced Materials</i> , 2018, 30, e1802894.	21.0	237
9	Structural design of TiO ₂ -based photocatalyst for H ₂ production and degradation applications. <i>Catalysis Science and Technology</i> , 2015, 5, 4703-4726.	4.1	223
10	Photothermal Catalytic Gel Featuring Spectral and Thermal Management for Parallel Freshwater and Hydrogen Production. <i>Advanced Energy Materials</i> , 2020, 10, 2000925.	19.5	162
11	Controlled heterogeneous water distribution and evaporation towards enhanced photothermal water-electricity-hydrogen production. <i>Nano Energy</i> , 2020, 77, 105102.	16.0	148
12	Photothermal Membrane Distillation toward Solar Water Production. <i>Small Methods</i> , 2021, 5, e2001200.	8.6	137
13	Modular Deformable Steam Electricity Cogeneration System with Photothermal, Water, and Electrochemical Tunable Multilayers. <i>Advanced Functional Materials</i> , 2020, 30, 2002867.	14.9	133
14	Bidentate-complex-derived TiO ₂ /carbon dot photocatalysts: in situ synthesis, versatile heterostructures, and enhanced H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5703.	10.3	120
15	Autonomous atmospheric water seeping MOF matrix. <i>Science Advances</i> , 2020, 6, .	10.3	120
16	Design of a Metal Oxide-Organic Framework (MoOF) Foam Microreactor: Solar-Induced Direct Pollutant Degradation and Hydrogen Generation. <i>Advanced Materials</i> , 2015, 27, 7713-7719.	21.0	86
17	Green chemistry synthesis of a nanocomposite graphene hydrogel with three-dimensional nano-mesopores for photocatalytic H ₂ production. <i>RSC Advances</i> , 2013, 3, 13169.	3.6	76
18	Conformal Microfluidic-Blow-Spun 3D Photothermal Catalytic Spherical Evaporator for Omnidirectional Enhanced Solar Steam Generation and CO ₂ Reduction. <i>Advanced Science</i> , 2021, 8, e2101232.	11.2	68

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19	Photocatalytic H ₂ production of composite one-dimensional TiO ₂ nanostructures of different morphological structures and crystal phases with graphene. <i>Catalysis Science and Technology</i> , 2013, 3, 1086.	4.1	63
20	Selective Wavelength Enhanced Photochemical and Photothermal H ₂ Generation of Classical Oxide Supported Metal Catalyst. <i>Advanced Functional Materials</i> , 2021, 31, 2104750.	14.9	46
21	A Hybrid Solar Absorber—Electrocatalytic N-Doped Carbon/Alloy/Semiconductor Electrode for Localized Photothermic Electrocatalysis. <i>Advanced Materials</i> , 2019, 31, e1903605.	21.0	43
22	Harvesting broadband absorption of the solar spectrum for enhanced photocatalytic H ₂ generation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19360-19367.	10.3	41
23	Multi-Interfacial catalyst with spatially defined redox reactions for enhanced pure water photothermal hydrogen production. <i>EcoMat</i> , 2021, 3, .	11.9	40
24	A Transmission Scheme for Continuous ARQ Protocols over Underwater Acoustic Channels. , 2009, , .		34
25	Self-regulating reversible photocatalytic-driven chromism of a cavity enhanced optical field TiO ₂ /CuO nanocomposite. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10909-10916.	10.3	23
26	Fine structural tuning of whereabout and clustering of metal—metal oxide heterostructure for optimal photocatalytic enhancement and stability. <i>Nanoscale</i> , 2014, 6, 12655-12664.	5.6	20
27	Simultaneous in situ reduction and embedment of Cu nanoparticles into TiO ₂ for the design of exceptionally active and stable photocatalysts. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16213-16219.	10.3	14
28	Solar Energy Capture: Visible to NIR Photon Harvesting: Progressive Engineering of Catalysts for Solar Powered Environmental Purification and Fuel Production (<i>Adv. Mater.</i> 47/2018). <i>Advanced Materials</i> , 2018, 30, 1870363.	21.0	7
29	Carbon Sponges: Self-Contained Monolithic Carbon Sponges for Solar-Driven Interfacial Water Evaporation Distillation and Electricity Generation (<i>Adv. Energy Mater.</i> 16/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870074.	19.5	6
30	Functionalization of TiO ₂ Nanofibers with Ag and Ag ₂ S Nanoparticles for Enhanced Photocatalytic Hydrogen Generation. <i>Procedia Engineering</i> , 2017, 215, 188-194.	1.2	5
31	Solar Absorber Gel: Solar Absorber Gel: Localized Macro-Nano Heat Channeling for Efficient Plasmonic Au Nanoflowers Photothermic Vaporization and Triboelectric Generation (<i>Adv. Energy</i>) Tj ETQq1 1 0.784314 rgBT #Overloc	1.2	4
32	Hierarchical Heterostructure of TiO ₂ Nanosheets on CuO Nanowires for Enhanced Photocatalytic Performance. <i>Procedia Engineering</i> , 2017, 215, 180-187.	1.2	4