

Liangliang Zhu

List of Publications by Year in descending order

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42
papers

5,417
citations

257357

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243529

44
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docs citations

44
times ranked

5502
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.	15.6	1,235
2	Recent progress in solar-driven interfacial water evaporation: Advanced designs and applications. <i>Nano Energy</i> , 2019, 57, 507-518.	8.2	597
3	Solar-driven photothermal nanostructured materials designs and prerequisites for evaporation and catalysis applications. <i>Materials Horizons</i> , 2018, 5, 323-343.	6.4	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.	10.2	430
5	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.	10.2	286
6	Plant leaf-derived fluorescent carbon dots for sensing, patterning and coding. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4925.	2.7	275
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.	10.2	256
8	Structural design of TiO ₂ -based photocatalyst for H ₂ production and degradation applications. <i>Catalysis Science and Technology</i> , 2015, 5, 4703-4726.	2.1	223
9	Photothermal Catalytic Gel Featuring Spectral and Thermal Management for Parallel Freshwater and Hydrogen Production. <i>Advanced Energy Materials</i> , 2020, 10, 2000925.	10.2	162
10	Fabrication of wheat grain textured TiO ₂ /CuO composite nanofibers for enhanced solar H ₂ generation and degradation performance. <i>Nano Energy</i> , 2015, 11, 28-37.	8.2	157
11	In situ chemical etching of tunable 3D Ni ₃ S ₂ superstructures for bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13916-13922.	5.2	117
12	In-built thermo-mechanical cooperative feedback mechanism for self-propelled multimodal locomotion and electricity generation. <i>Nature Communications</i> , 2018, 9, 3438.	5.8	117
13	Bifunctional 2D-on-2D MoO ₃ nanobelt/Ni(OH) ₂ nanosheets for supercapacitor-driven electrochromic energy storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8343-8351.	5.2	106
14	Hybrid Photothermal Pyroelectric and Thermogalvanic Generator for Multisituation Low Grade Heat Harvesting. <i>Advanced Energy Materials</i> , 2018, 8, 1802397.	10.2	103
15	Hierarchical Assembly of SnO ₂ /ZnO Nanostructures for Enhanced Photocatalytic Performance. <i>Scientific Reports</i> , 2015, 5, 11609.	1.6	94
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.	11.1	86
17	Self-contained Janus Aerogel with Antifouling and Salt-Rejecting Properties for Stable Solar Evaporation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18829-18837.	4.0	86
18	TiO ₂ Fibers Supported ¹²⁵ I-FeOOH Nanostructures as Efficient Visible Light Photocatalyst and Room Temperature Sensor. <i>Scientific Reports</i> , 2015, 5, 10601.	1.6	73

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19	Facile synthesis of red dual-emissive carbon dots for ratiometric fluorescence sensing and cellular imaging. <i>Nanoscale</i> , 2020, 12, 5494-5500.	2.8	68
20	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.	5.6	68
21	Electrodeposited cobalt phosphide superstructures for solar-driven thermoelectrocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16580-16584.	5.2	54
22	Carbon dots promoted photonic crystal for optical information storage and sensing. <i>Chemical Engineering Journal</i> , 2021, 415, 128950.	6.6	47
23	Substrate-Friendly Growth of Large-Sized Ni(OH) ₂ Nanosheets for Flexible Electrochromic Films. <i>Small</i> , 2017, 13, 1700084.	5.2	39
24	Graphene Fiber-Based Wearable Supercapacitors: Recent Advances in Design, Construction, and Application. <i>Small Methods</i> , 2021, 5, e2100502.	4.6	33
25	Versatile titanium dioxide inverse opal composite photonic hydrogel films towards multi-solvents chip sensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130639.	4.0	22
26	Synergistic Interaction of Ternary Ni ²⁺ Co ²⁺ Cu Chalcogenides Confined in Nanosheets Array to Advance Supercapacitors and Solar Steam Generation. <i>Solar Rrl</i> , 2021, 5, 2100021.	3.1	21
27	Fibrous Nanoreactors from Microfluidic Blow Spinning for Mass Production of Highly Stable Ligand-Free Perovskite Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	21
28	Rational Integration of Inbuilt Aperture with Mesoporous Framework in Unusual Asymmetrical Yolk-Shell Structures for Energy Storage and Conversion. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32901-32909.	4.0	20
29	Robust Nanofiber Films Prepared by Electro-Microfluidic Spinning for Flexible Highly Stable Quantum-Dot Displays. <i>Advanced Electronic Materials</i> , 2021, 7, 2000626.	2.6	16
30	High-Performance Integrated Solar Steam Generator for Synergetic Freshwater Production, Salt Harvesting, and Electricity Generation. <i>Solar Rrl</i> , 2022, 6, .	3.1	14
31	Hydrophobic fluorinated colloidal photonic crystals for heterogeneous aggregated cluster encoding and energy-saving applications. <i>Chemical Engineering Journal</i> , 2021, 411, 128623.	6.6	10
32	Solar-Initiated Frontal Polymerization of Photothermic Hydrogels with High Swelling Properties for Efficient Water Evaporation. <i>Solar Rrl</i> , 2022, 6, 2100917.	3.1	10
33	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.	10.2	6
34	Rapid Fabrication of Patterned Gels via Microchannel-Conformal Frontal Polymerization. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2100421.	2.0	6
35	Carbon Dot-Functionalized Colloidal Particles for Patterning and Controllable Layer-Structured Photonic Crystals Construction. <i>ACS Applied Polymer Materials</i> , 2021, 3, 6130-6137.	2.0	6
36	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

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37	Solar Absorber Gel: Solar Absorber Gel: Localized Macro-Nano Heat Channeling for Efficient Plasmonic Au Nanoflowers Photothermic Vaporization and Triboelectric Generation (Adv. Energy) Tj ETQq1 1 0.784814 rgBT #Overloc	1.4	5
38	Armored colloidal photonic crystals for solar evaporation. <i>Nanoscale</i> , 2021, 13, 16189-16196.	2.8	5
39	Fibrous Nanoreactors from Microfluidic Blow Spinning for Mass Production of Highly Stable Ligand-Free Perovskite Quantum Dots. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	5
40	Hierarchical Heterostructure of TiO ₂ Nanosheets on CuO Nanowires for Enhanced Photocatalytic Performance. <i>Procedia Engineering</i> , 2017, 215, 180-187.	1.2	4
41	Microfluidic assembly of uniform fluorescent microbeads from quantum-dot-loaded fluorine-containing microemulsion. <i>Polymer International</i> , 2014, 63, 1953-1958.	1.6	3
42	Microfluidic-directed assembly of uniform fluorescent supraballs from CdTe nanocrystals-loaded acrylosilane microemulsion. <i>Colloid and Polymer Science</i> , 2013, 291, 2147-2154.	1.0	1