Liangliang Zhu

List of Publications by Citations

38 papers	3,397 citations	20 h-index	44 g-index
44 ext. papers	4,365 ext. citations	12.6 avg, IF	6.28 L-index

#	Paper	IF	Citations
38	Solar absorber material and system designs for photothermal water vaporization towards clean water and energy production. *Energy and Environmental Science*, **2019**, 12, 841-864	35.4	709
37	Recent progress in solar-driven interfacial water evaporation: Advanced designs and applications. *Nano Energy*, **2019**, 57, 507-518	17.1	335
36	Self-Contained Monolithic Carbon Sponges for Solar-Driven Interfacial Water Evaporation Distillation and Electricity Generation. *Advanced Energy Materials*, **2018**, 8, 1702149	21.8	312
35	Solar-driven photothermal nanostructured materials designs and prerequisites for evaporation and catalysis applications. *Materials Horizons*, **2018**, 5, 323-343	14.4	304
34	Plant leaf-derived fluorescent carbon dots for sensing, patterning and coding. *Journal of Materials Chemistry C*, **2013**, 1, 4925	7.1	231
33	Structural design of TiO2-based photocatalyst for H2 production and degradation applications. *Catalysis Science and Technology*, **2015**, 5, 4703-4726	5.5	180
32	Shape Conformal and Thermal Insulative Organic Solar Absorber Sponge for Photothermal Water Evaporation and Thermoelectric Power Generation. *Advanced Energy Materials*, **2019**, 9, 1900250	21.8	179
31	Solar Absorber Gel: Localized Macro-Nano Heat Channeling for Efficient Plasmonic Au Nanoflowers Photothermic Vaporization and Triboelectric Generation. *Advanced Energy Materials*, **2018**, 8, 1800711	21.8	176
30	Fabrication of wheat grain textured TiO2/CuO composite nanofibers for enhanced solar H2 generation and degradation performance. *Nano Energy*, **2015**, 11, 28-37	17.1	132
29	In situ chemical etching of tunable 3D Ni3S2 superstructures for bifunctional electrocatalysts for overall water splitting. *Journal of Materials Chemistry A*, **2016**, 4, 13916-13922	13	94
28	Photothermal Catalytic Gel Featuring Spectral and Thermal Management for Parallel Freshwater and Hydrogen Production. *Advanced Energy Materials*, **2020**, 10, 2000925	21.8	89
27	Hierarchical Assembly of SnO2/ZnO Nanostructures for Enhanced Photocatalytic Performance. *Scientific Reports*, **2015**, 5, 11609	4.9	83
26	Bifunctional 2D-on-2D MoO3 nanobelt/Ni(OH)2 nanosheets for supercapacitor-driven electrochromic energy storage. *Journal of Materials Chemistry A*, **2017**, 5, 8343-8351	13	81
25	Design of a Metal Oxide-Organic Framework (MoOF) Foam Microreactor: Solar-Induced Direct Pollutant Degradation and Hydrogen Generation. *Advanced Materials*, **2015**, 27, 7713-9	24	80
24	In-built thermo-mechanical cooperative feedback mechanism for self-propelled multimodal locomotion and electricity generation. *Nature Communications*, **2018**, 9, 3438	17.4	71
23	TiO2 Fibers Supported FeOOH Nanostructures as Efficient Visible Light Photocatalyst and Room Temperature Sensor. *Scientific Reports*, **2015**, 5, 10601	4.9	71
22	Hybrid Photothermal Pyroelectric and Thermogalvanic Generator for Multisituation Low Grade Heat Harvesting. *Advanced Energy Materials*, **2018**, 8, 1802397	21.8	62

21	Electrodeposited cobalt phosphide superstructures for solar-driven thermoelectrocatalytic overall water splitting. *Journal of Materials Chemistry A*, **2017**, 5, 16580-16584	13	37
20	Substrate-Friendly Growth of Large-Sized Ni(OH) Nanosheets for Flexible Electrochromic Films. *Small*, **2017**, 13, 1700084	11	30
19	Facile synthesis of red dual-emissive carbon dots for ratiometric fluorescence sensing and cellular imaging. *Nanoscale*, **2020**, 12, 5494-5500	7.7	20
18	Rational Integration of Inbuilt Aperture with Mesoporous Framework in Unusual Asymmetrical Yolk-Shell Structures for Energy Storage and Conversion. *ACS Applied Materials & Interfaces*, **2016**, 8, 32901-32909	9.5	17
17	Carbon dots promoted photonic crystal for optical information storage and sensing. *Chemical Engineering Journal*, **2021**, 415, 128950	14.7	17
16	Self-contained Janus Aerogel with Antifouling and Salt-Rejecting Properties for Stable Solar Evaporation. *ACS Applied Materials & Interfaces*, **2021**, 13, 18829-18837	9.5	15
15	Conformal Microfluidic-Blow-Spun 3D Photothermal Catalytic Spherical Evaporator for Omnidirectional Enhanced Solar Steam Generation and CO Reduction. *Advanced Science*, **2021**, 8, e2101232	13.6	10
14	Graphene Fiber-Based Wearable Supercapacitors: Recent Advances in Design, Construction, and Application.. *Small Methods*, **2021**, 5, e2100502	12.8	9
13	Carbon Sponges: Self-Contained Monolithic Carbon Sponges for Solar-Driven Interfacial Water Evaporation Distillation and Electricity Generation (Adv. Energy Mater. 16/2018). *Advanced Energy Materials*, **2018**, 8, 1870074	21.8	5
12	Synergistic Interaction of Ternary NiCoCu Chalcogenides Confined in Nanosheets Array to Advance Supercapacitors and Solar Steam Generation. *Solar Rrl*, **2021**, 5, 2100021	7.1	5
11	Versatile titanium dioxide inverse opal composite photonic hydrogel films towards multi-solvents chip sensors. *Sensors and Actuators B: Chemical*, **2021**, 347, 130639	8.5	5
10	Functionalization of TiO2 Nanofibers with Ag and Ag2S Nanoparticles for Enhanced Photocatalytic Hydrogen Generation. *Procedia Engineering*, **2017**, 215, 188-194		4
9	Robust Nanofiber Films Prepared by Electro-Microfluidic Spinning for Flexible Highly Stable Quantum-Dot Displays. *Advanced Electronic Materials*, **2021**, 7, 2000626	6.4	4
8	Solar Absorber Gel: Solar Absorber Gel: Localized Macro-Nano Heat Channeling for Efficient Plasmonic Au Nanoflowers Photothermic Vaporization and Triboelectric Generation (Adv. Energy Mater. 25/2018). *Advanced Energy Materials*, **2018**, 8, 1870114	21.8	4
7	Microfluidic assembly of uniform fluorescent microbeads from quantum-dot-loaded fluorine-containing microemulsion. *Polymer International*, **2014**, 63, 1953-1958	3.3	3
6	Hierarchical Heterostructure of TiO2 Nanosheets on CuO Nanowires for Enhanced Photocatalytic Performance. *Procedia Engineering*, **2017**, 215, 180-187		2
5	Armored colloidal photonic crystals for solar evaporation. *Nanoscale*, **2021**, 13, 16189-16196	7.7	2
4	Rapid Fabrication of Patterned Gels via Microchannel-Conformal Frontal Polymerization. *Macromolecular Rapid Communications*, **2021**, 42, e2100421	4.8	2

3	Microfluidic-directed assembly of uniform fluorescent supraballs from CdTe nanocrystals-loaded acrylosilane microemulsion. *Colloid and Polymer Science*, **2013**, 291, 2147-2154	2.4	1
2	Solar-Initiated Frontal Polymerization of Photothermic Hydrogels with High Swelling Properties for Efficient Water Evaporation. *Solar Rrl*,2100917	7.1	1
1	Hydrophobic fluorinated colloidal photonic crystals for heterogeneous aggregated cluster encoding and energy-saving applications. *Chemical Engineering Journal*, **2021**, 411, 128623	14.7	1