Lin Zhou

List of Publications by Citations

55 papers	6,645 citations	25 h-index	59 g-index
59 ext. papers	8,385 ext. citations	13.1 avg, IF	6.16 L-index

#	Paper	IF	Citations
55	3D self-assembly of aluminium nanoparticles for plasmon-enhanced solar desalination. *Nature Photonics*, **2016**, 10, 393-398	33.9	1238
54	Self-assembly of highly efficient, broadband plasmonic absorbers for solar steam generation. *Science Advances*, **2016**, 2, e1501227	14.3	742
53	Graphene oxide-based efficient and scalable solar desalination under one sun with a confined 2D water path. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13953-13958	11.5	724
52	Mushrooms as Efficient Solar Steam-Generation Devices. *Advanced Materials*, **2017**, 29, 1606762	24	654
51	Tailoring Graphene Oxide-Based Aerogels for Efficient Solar Steam Generation under One Sun. *Advanced Materials*, **2017**, 29, 1604031	24	537
50	Flexible and Salt Resistant Janus Absorbers by Electrospinning for Stable and Efficient Solar Desalination. *Advanced Energy Materials*, **2018**, 8, 1702884	21.8	423
49	Enhancement of Interfacial Solar Vapor Generation by Environmental Energy. *Joule*, **2018**, 2, 1331-1338	27.8	301
48	Self-assembled spectrum selective plasmonic absorbers with tunable bandwidth for solar energy conversion. *Nano Energy*, **2017**, 32, 195-200	17.1	210
47	A water lily-inspired hierarchical design for stable and efficient solar evaporation of high-salinity brine. *Science Advances*, **2019**, 5, eaaw7013	14.3	182
46	Interfacial Solar Steam Generation Enables Fast-Responsive, Energy-Efficient, and Low-Cost Off-Grid Sterilization. *Advanced Materials*, **2018**, 30, e1805159	24	146
45	The revival of thermal utilization from the Sun: interfacial solar vapor generation. *National Science Review*, **2019**, 6, 562-578	10.8	134
44	Over 10 kg m h Evaporation Rate Enabled by a 3D Interconnected Porous Carbon Foam. *Joule*, **2020**, 4, 928-937	27.8	131
43	Measuring Conversion Efficiency of Solar Vapor Generation. *Joule*, **2019**, 3, 1798-1803	27.8	130
42	Enhanced rotation of the polarization of a light beam transmitted through a silver film with an array of perforated S-shaped holes. *Physical Review Letters*, **2013**, 110, 207401	7.4	126
41	Dual functional asymmetric plasmonic structures for solar water purification and pollution detection. *Nano Energy*, **2018**, 51, 451-456	17.1	108
40	Visualization of moir superlattices. *Nature Nanotechnology*, **2020**, 15, 580-584	28.7	88
39	Metal-core/semiconductor-shell nanocones for broadband solar absorption enhancement. *Nano Letters*, **2014**, 14, 1093-8	11.5	84

38	Excitons in strain-induced one-dimensional moiré potentials at transition metal dichalcogenide heterojunctions. *Nature Materials*, **2020**, 19, 1068-1073	27	79
37	Tuning Transpiration by Interfacial Solar Absorber-Leaf Engineering. *Advanced Science*, **2018**, 5, 1700497	13.6	57
36	Stable, high-performance sodium-based plasmonic devices in the near infrared. *Nature*, **2020**, 581, 401-405	38.4	53
35	Plasmon-enhanced solar vapor generation. *Nanophotonics*, **2019**, 8, 771-786	6.3	42
34	Synergistic Tandem Solar Electricity-Water Generators. *Joule*, **2020**, 4, 347-358	27.8	40
33	Omnidirectional and effective salt-rejecting absorber with rationally designed nanoarchitecture for efficient and durable solar vapour generation. *Journal of Materials Chemistry A*, **2018**, 6, 22976-22986	13	35
32	Optical properties of a planar metamaterial with chiral symmetry breaking. *Optics Letters*, **2011**, 36, 3359-61	3	31
31	Fine-tuning the metallic core-shell nanostructures for plasmonic perovskite solar cells. *Applied Physics Letters*, **2016**, 109, 183901	3.4	28
30	Nanomaterials for the water-energy nexus. *MRS Bulletin*, **2019**, 44, 59-66	3.2	22
29	Hybrid Solar Absorber-Emitter by Coherence-Enhanced Absorption for Improved Solar Thermophotovoltaic Conversion. *Advanced Optical Materials*, **2018**, 6, 1800813	8.1	22
28	Electric quadrupole excitation in surface plasmon resonance of metallic composite nanohole arrays. *Applied Physics Letters*, **2011**, 99, 141104	3.4	21
27	Enhancement of solar vapor generation by a 3D hierarchical heat trapping structure. *Journal of Materials Chemistry A*, **2019**, 7, 26496-26503	13	21
26	Enhanced optical transmission through metal-dielectric multilayer gratings. *Applied Physics Letters*, **2010**, 97, 011905	3.4	20
25	A high-performing single-stage invert-structured solar water purifier through enhanced absorption and condensation. *Joule*, **2021**, 5, 1602-1612	27.8	20
24	Diffusivity Reveals Three Distinct Phases of Interlayer Excitons in MoSe_{2}/WSe_{2} Heterobilayers. *Physical Review Letters*, **2021**, 126, 106804	7.4	18
23	Spectrally selective solar absorber with sharp and temperature dependent cut-off based on semiconductor nanowire arrays. *Applied Physics Letters*, **2017**, 110, 201108	3.4	16
22	In operando plasmonic monitoring of electrochemical evolution of lithium metal. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 11168-11173	11.5	16
21	Hierarchically Designed Salt-Resistant Solar Evaporator Based on Donnan Effect for Stable and High-Performance Brine Treatment. *Advanced Functional Materials*, **2021**, 31, 2100025	15.6	13

20	Free-standing reduced graphene oxide (rGO) membrane for salt-rejecting solar desalination via size effect. *Nanophotonics*, **2020**, 9, 4601-4608	6.3	12
19	Solar thermal utilizations revived by advanced solar evaporation. *Current Opinion in Chemical Engineering*, **2019**, 25, 26-34	5.4	11
18	Optical properties of a metal film perforated with coaxial elliptical hole arrays. *Physical Review E*, **2010**, 81, 057601	2.4	11
17	A scalable fish-school inspired self-assembled particle system for solar-powered water-solute separation. *National Science Review*, **2021**, 8, nwab065	10.8	10
16	Phaselike resonance behavior in optical transmission of sandwich coaxial square ring arrays. *Applied Physics Letters*, **2010**, 96, 253102	3.4	7
15	Plasmonic nanostructures for advanced interfacial solarvapor generation. *Scientia Sinica: Physica, Mechanica Et Astronomica*, **2019**, 49, 124203	1.5	7
14	Electrical Dynamic Switching of Magnetic Plasmon Resonance Based on Selective Lithium Deposition. *Advanced Materials*, **2020**, 32, e2000058	24	7
13	Hybridized effects of plasmonic quadrupolar and dipolar resonances on the perforated planar metallic film. *Journal Physics D: Applied Physics*, **2013**, 46, 065302	3	6
12	Non-noble metal based broadband photothermal absorbers for cost effective interfacial solar thermal conversion. *Nanophotonics*, **2020**, 9, 1539-1546	6.3	6
11	Enhanced circular dichroism based on the dual-chiral metamaterial in terahertz regime. *Chinese Physics B*, **2016**, 25, 058103	1.2	6
10	Stable Self-Floating Reduced Graphene Oxide Hydrogel Membrane for High Rate of Solar Vapor Evaporation under 1 sun. *Global Challenges*, **2021**, 5, 2000053	4.3	6
9	Reply to W The merits of plasmonic desalinationW *Nature Photonics*, **2017**, 11, 70-71	33.9	4
8	Three-dimensional TiO2/Au nanoparticles for plasmon enhanced photocatalysis. *Journal of Optics (United Kingdom)*, **2018**, 20, 034005	1.7	4
7	Tamm plasmon enabled narrowband thermal emitter for solar thermophotovoltaics. *Solar Energy Materials and Solar Cells*, **2022**, 238, 111589	6.4	4
6	Surface plasmon polaritonE nhanced photoluminescence of monolayer MoS2 on suspended periodic metallic structures. *Nanophotonics*, **2020**, 10, 975-982	6.3	4
5	Enhanced second-harmonic generation in monolayer MoS2 on suspended metallic nanostructures by plasmonic resonances. *Nanophotonics*, **2021**,	6.3	4
4	Electrochemically driven dynamic plasmonics. *Advanced Photonics*, **2021**, 3,	8.1	4
3	Novel plasmon-assisted absorption engineering based on layered metallic nanostructures. *Materials Research Innovations*, **2015**, 19, S1-S3	1.9	3

2	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides.. *Nature Communications*, **2022**, 13, 542	17.4	3
1	Polarization-tunable polariton excitation in a compound plasmonic crystal. *Applied Physics Letters*, **2012**, 100, 221901	3.4	2