Lin Zhou

List of Publications by Year
in descending order

58 papers	10,107 citations	147566 31 h-index	133063 59 g-index
59 all docs	59 docs citations	59 times ranked	6219 citing authors

#	Article	IF	Citations
1	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides. Nature Communications, 2022, 13, 542.	5.8	23
2	Tamm plasmon enabled narrowband thermal emitter for solar thermophotovoltaics. Solar Energy Materials and Solar Cells, 2022, 238, 111589.	3.0	15
3	High-yield solar-driven atmospheric water harvesting of metalâ€“organic-framework-derived nanoporous carbon with fast-diffusion water channels. Nature Nanotechnology, 2022, 17, 857-863.	15.6	85
4	Stable Selfâ€Floating Reduced Graphene Oxide Hydrogel Membrane for High Rate of Solar Vapor Evaporation under 1 sun. Global Challenges, 2021, 5, 2000053.	1.8	15
5	Diffusivity Reveals Three Distinct Phases of Interlayer Excitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow><mml:mi>MoSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow	2.9	49
	Heterobilayers. Physical Review Letters, 2021, 126, 106804.		
6	A scalable fish-school inspired self-assembled particle system for solar-powered water-solute separation. National Science Review, 2021, 8, nwab065.	4.6	58
7	Hierarchically Designed Saltâ€Resistant Solar Evaporator Based on Donnan Effect for Stable and Highâ€Performance Brine Treatment. Advanced Functional Materials, 2021, 31, 2100025.	7.8	94
8	Enhanced second-harmonic generation in monolayer MoS₂ on suspended metallic nanostructures by plasmonic resonances. Nanophotonics, 2021, 10, 1871-1877.	2.9	18
9	A high-performing single-stage invert-structured solar water purifier through enhanced absorption and condensation. Joule, 2021, 5, 1602-1612.	11.7	107
10	Electrochemically driven dynamic plasmonics. Advanced Photonics, 2021, 3, .	6.2	10
11	Salt-Resistive Photothermal Materials and Microstructures for Interfacial Solar Desalination. Frontiers in Energy Research, 2021, 9, .	1.2	6
12	Direct characterization of coherence of quantum detectors by sequential measurements. Advanced Photonics, 2021, 3, .	6.2	2
13	Synergistic Tandem Solar Electricity-Water Generators. Joule, 2020, 4, 347-358.	11.7	91
14	Excitons in strain-induced one-dimensional moirÃ© potentials at transition metal dichalcogenide heterojunctions. Nature Materials, 2020, 19, 1068-1073.	13.3	169
15	Electrical Dynamic Switching of Magnetic Plasmon Resonance Based on Selective Lithium Deposition. Advanced Materials, 2020, 32, e2000058.	11.1	16
16	Stable, high-performance sodium-based plasmonic devices in the nearÂinfrared. Nature, 2020, 581, 401-405.	13.7	125
17	Visualization of moirÃ© superlattices. Nature Nanotechnology, 2020, 15, 580-584.	15.6	187
18	Over 10Âkg mâ^'2 hâ^'1 Evaporation Rate Enabled by a 3D Interconnected Porous Carbon Foam. Joule, 2020, 4, 928-937.	11.7	263

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19	Free-standing reduced graphene oxide (rGO) membrane for salt-rejecting solar desalination via size effect. Nanophotonics, 2020, 9, 4601-4608.	2.9	33
20	Surface plasmon polaritonâ€“enhanced photoluminescence of monolayer MoS₂ on suspended periodic metallic structures. Nanophotonics, 2020, 10, 975-982.	2.9	16
21	Non-noble metal based broadband photothermal absorbers for cost effective interfacial solar thermal conversion. Nanophotonics, 2020, 9, 1539-1546.	2.9	19
22	Solar thermal utilizations revived by advanced solar evaporation. Current Opinion in Chemical Engineering, 2019, 25, 26-34.	3.8	26
23	Measuring Conversion Efficiency of Solar Vapor Generation. Joule, 2019, 3, 1798-1803.	11.7	246
24	A water lilyâ€“inspired hierarchical design for stable and efficient solar evaporation of high-salinity brine. Science Advances, 2019, 5, eaaw7013.	4.7	335
25	Plasmon-enhanced solar vapor generation. Nanophotonics, 2019, 8, 771-786.	2.9	91
26	The revival of thermal utilization from the Sun: interfacial solar vapor generation. National Science Review, 2019, 6, 562-578.	4.6	260
27	Enhancement of solar vapor generation by a 3D hierarchical heat trapping structure. Journal of Materials Chemistry A, 2019, 7, 26496-26503.	5.2	28
28	Nanomaterials for the water-energy nexus. MRS Bulletin, 2019, 44, 59-66.	1.7	39
29	Plasmonic nanostructures for advanced interfacial solarvapor generation. Scientia Sinica: Physica, Mechanica Et Astronomica, 2019, 49, 124203.	0.2	10
30	Three-dimensional TiO₂/Au nanoparticles for plasmon enhanced photocatalysis. Journal of Optics (United Kingdom), 2018, 20, 034005.	1.0	7
31	Flexible and Salt Resistant Janus Absorbers by Electrospinning for Stable and Efficient Solar Desalination. Advanced Energy Materials, 2018, 8, 1702884.	10.2	635
32	Enhancement of Interfacial Solar Vapor Generation by Environmental Energy. Joule, 2018, 2, 1331-1338.	11.7	507
33	Tuning Transpiration by Interfacial Solar Absorberâ€Leaf Engineering. Advanced Science, 2018, 5, 1700497.	5.6	65
34	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.	5.2	48
35	Interfacial Solar Steam Generation Enables Fastâ€Responsive, Energyâ€Efficient, and Lowâ€Cost Offâ€Grid Sterilization. Advanced Materials, 2018, 30, e1805159.	11.1	208
36	Hybrid Solar Absorberâ€“Emitter by Coherenceâ€Enhanced Absorption for Improved Solar Thermophotovoltaic Conversion. Advanced Optical Materials, 2018, 6, 1800813.	3.6	33

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37	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.	3.3	28
38	Dual functional asymmetric plasmonic structures for solar water purification and pollution detection. Nano Energy, 2018, 51, 451-456.	8.2	165
39	Reply to 'The merits of plasmonic desalination'. Nature Photonics, 2017, 11, 70-71.	15.6	7
40	Mushrooms as Efficient Solar Steamâ€Generation Devices. Advanced Materials, 2017, 29, 1606762.	11.1	922
41	Spectrally selective solar absorber with sharp and temperature dependent cut-off based on semiconductor nanowire arrays. Applied Physics Letters, 2017, 110, 201108.	1.5	20
42	Self-assembled spectrum selective plasmonic absorbers with tunable bandwidth for solar energy conversion. Nano Energy, 2017, 32, 195-200.	8.2	252
43	Tailoring Graphene Oxideâ€Based Aerogels for Efficient Solar Steam Generation under One Sun. Advanced Materials, 2017, 29, 1604031.	11.1	711
44	Enhanced circular dichroism based on the dual-chiral metamaterial in terahertz regime. Chinese Physics B, 2016, 25, 058103.	0.7	7
45	Fine-tuning the metallic core-shell nanostructures for plasmonic perovskite solar cells. Applied Physics Letters, 2016, 109, .	1.5	32
46	3D self-assembly of aluminium nanoparticles for plasmon-enhanced solar desalination. Nature Photonics, 2016, 10, 393-398.	15.6	1,669
47	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.	3.3	971
48	Self-assembly of highly efficient, broadband plasmonic absorbers for solar steam generation. Science Advances, 2016, 2, e1501227.	4.7	1,025
49	Novel plasmon-assisted absorption engineering based on layered metallic nanostructures. Materials Research Innovations, 2015, 19, S1-S3.	1.0	4
50	Metal-Core/Semiconductor-Shell Nanocones for Broadband Solar Absorption Enhancement. Nano Letters, 2014, 14, 1093-1098.	4.5	98
51	Enhanced Rotation of the Polarization of a Light Beam Transmitted through a Silver Film with an Array of Perforated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi></mml:math>-Shaped Holes. Physical Review Letters, 2013, 110, 207401.	2.9	144
52	Hybridized effects of plasmonic quadrupolar and dipolar resonances on the perforated planar metallic film. Journal Physics D: Applied Physics, 2013, 46, 065302.	1.3	7
53	Polarization-tunable polariton excitation in a compound plasmonic crystal. Applied Physics Letters, 2012, 100, .	1.5	4
54	Optical properties of a planar metamaterial with chiral symmetry breaking. Optics Letters, 2011, 36, 3359.	1.7	34

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55	Electric quadrupole excitation in surface plasmon resonance of metallic composite nanohole arrays. Applied Physics Letters, 2011, 99, .	1.5	21
56	Phaselike resonance behavior in optical transmission of sandwich coaxial square ring arrays. Applied Physics Letters, 2010, 96, .	1.5	8
57	Enhanced optical transmission through metal-dielectric multilayer gratings. Applied Physics Letters, 2010, 97, 011905.	1.5	22
58	Optical properties of a metal film perforated with coaxial elliptical hole arrays. Physical Review E, 2010, 81, 057601.	0.8	13