

List of Publications by Year in
Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides.. <i>Nature Communications</i> , 2022 , 13, 542	17.4	3
54	Tamm plasmon enabled narrowband thermal emitter for solar thermophotovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 238, 111589	6.4	4
53	Diffusivity Reveals Three Distinct Phases of Interlayer Excitons in MoSe ₂ /WSe ₂ Heterobilayers. <i>Physical Review Letters</i> , 2021 , 126, 106804	7.4	18
52	A scalable fish-school inspired self-assembled particle system for solar-powered water-solute separation. <i>National Science Review</i> , 2021 , 8, nwab065	10.8	10
51	Hierarchically Designed Salt-Resistant Solar Evaporator Based on Donnan Effect for Stable and High-Performance Brine Treatment. <i>Advanced Functional Materials</i> , 2021 , 31, 2100025	15.6	13
50	Enhanced second-harmonic generation in monolayer MoS ₂ on suspended metallic nanostructures by plasmonic resonances. <i>Nanophotonics</i> , 2021 ,	6.3	4
49	A high-performing single-stage invert-structured solar water purifier through enhanced absorption and condensation. <i>Joule</i> , 2021 , 5, 1602-1612	27.8	20
48	Electrochemically driven dynamic plasmonics. <i>Advanced Photonics</i> , 2021 , 3,	8.1	4
47	Stable Self-Floating Reduced Graphene Oxide Hydrogel Membrane for High Rate of Solar Vapor Evaporation under 1 sun. <i>Global Challenges</i> , 2021 , 5, 2000053	4.3	6
46	Stable, high-performance sodium-based plasmonic devices in the near infrared. <i>Nature</i> , 2020 , 581, 401-405	45.4	53
45	Visualization of moiré superlattices. <i>Nature Nanotechnology</i> , 2020 , 15, 580-584	28.7	88
44	Over 10 kg m ⁻² h ⁻¹ Evaporation Rate Enabled by a 3D Interconnected Porous Carbon Foam. <i>Joule</i> , 2020 , 4, 928-937	27.8	131
43	Free-standing reduced graphene oxide (rGO) membrane for salt-rejecting solar desalination via size effect. <i>Nanophotonics</i> , 2020 , 9, 4601-4608	6.3	12
42	Surface plasmon polariton-enhanced photoluminescence of monolayer MoS ₂ on suspended periodic metallic structures. <i>Nanophotonics</i> , 2020 , 10, 975-982	6.3	4
41	Non-noble metal based broadband photothermal absorbers for cost effective interfacial solar thermal conversion. <i>Nanophotonics</i> , 2020 , 9, 1539-1546	6.3	6
40	Synergistic Tandem Solar Electricity-Water Generators. <i>Joule</i> , 2020 , 4, 347-358	27.8	40
39	Excitons in strain-induced one-dimensional moiré potentials at transition metal dichalcogenide heterojunctions. <i>Nature Materials</i> , 2020 , 19, 1068-1073	27	79

38	Electrical Dynamic Switching of Magnetic Plasmon Resonance Based on Selective Lithium Deposition. <i>Advanced Materials</i> , 2020 , 32, e2000058	24	7
37	Plasmon-enhanced solar vapor generation. <i>Nanophotonics</i> , 2019 , 8, 771-786	6.3	42
36	The revival of thermal utilization from the Sun: interfacial solar vapor generation. <i>National Science Review</i> , 2019 , 6, 562-578	10.8	134
35	Solar thermal utilizations revived by advanced solar evaporation. <i>Current Opinion in Chemical Engineering</i> , 2019 , 25, 26-34	5.4	11
34	Measuring Conversion Efficiency of Solar Vapor Generation. <i>Joule</i> , 2019 , 3, 1798-1803	27.8	130
33	A water lily-inspired hierarchical design for stable and efficient solar evaporation of high-salinity brine. <i>Science Advances</i> , 2019 , 5, eaaw7013	14.3	182
32	Plasmonic nanostructures for advanced interfacial solar vapor generation. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2019 , 49, 124203	1.5	7
31	Enhancement of solar vapor generation by a 3D hierarchical heat trapping structure. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26496-26503	13	21
30	Nanomaterials for the water-energy nexus. <i>MRS Bulletin</i> , 2019 , 44, 59-66	3.2	22
29	Three-dimensional TiO ₂ /Au nanoparticles for plasmon enhanced photocatalysis. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 034005	1.7	4
28	Flexible and Salt Resistant Janus Absorbers by Electrospinning for Stable and Efficient Solar Desalination. <i>Advanced Energy Materials</i> , 2018 , 8, 1702884	21.8	423
27	Enhancement of Interfacial Solar Vapor Generation by Environmental Energy. <i>Joule</i> , 2018 , 2, 1331-1338	27.8	301
26	Tuning Transpiration by Interfacial Solar Absorber-Leaf Engineering. <i>Advanced Science</i> , 2018 , 5, 1700497	13.6	57
25	Omnidirectional and effective salt-rejecting absorber with rationally designed nanoarchitecture for efficient and durable solar vapour generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22976-22986	13	35
24	Interfacial Solar Steam Generation Enables Fast-Responsive, Energy-Efficient, and Low-Cost Off-Grid Sterilization. <i>Advanced Materials</i> , 2018 , 30, e1805159	24	146
23	Hybrid Solar Absorber-Emitter by Coherence-Enhanced Absorption for Improved Solar Thermophotovoltaic Conversion. <i>Advanced Optical Materials</i> , 2018 , 6, 1800813	8.1	22
22	In operando plasmonic monitoring of electrochemical evolution of lithium metal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11168-11173	11.5	16
21	Dual functional asymmetric plasmonic structures for solar water purification and pollution detection. <i>Nano Energy</i> , 2018 , 51, 451-456	17.1	108

20	Reply to W. The merits of plasmonic desalination W. <i>Nature Photonics</i> , 2017 , 11, 70-71	33.9	4
19	Mushrooms as Efficient Solar Steam-Generation Devices. <i>Advanced Materials</i> , 2017 , 29, 1606762	24	654
18	Spectrally selective solar absorber with sharp and temperature dependent cut-off based on semiconductor nanowire arrays. <i>Applied Physics Letters</i> , 2017 , 110, 201108	3.4	16
17	Self-assembled spectrum selective plasmonic absorbers with tunable bandwidth for solar energy conversion. <i>Nano Energy</i> , 2017 , 32, 195-200	17.1	210
16	Tailoring Graphene Oxide-Based Aerogels for Efficient Solar Steam Generation under One Sun. <i>Advanced Materials</i> , 2017 , 29, 1604031	24	537
15	Graphene oxide-based efficient and scalable solar desalination under one sun with a confined 2D water path. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13953-13958	11.5	724
14	Self-assembly of highly efficient, broadband plasmonic absorbers for solar steam generation. <i>Science Advances</i> , 2016 , 2, e1501227	14.3	742
13	Enhanced circular dichroism based on the dual-chiral metamaterial in terahertz regime. <i>Chinese Physics B</i> , 2016 , 25, 058103	1.2	6
12	Fine-tuning the metallic core-shell nanostructures for plasmonic perovskite solar cells. <i>Applied Physics Letters</i> , 2016 , 109, 183901	3.4	28
11	3D self-assembly of aluminium nanoparticles for plasmon-enhanced solar desalination. <i>Nature Photonics</i> , 2016 , 10, 393-398	33.9	1238
10	Novel plasmon-assisted absorption engineering based on layered metallic nanostructures. <i>Materials Research Innovations</i> , 2015 , 19, S1-S3	1.9	3
9	Metal-core/semiconductor-shell nanocones for broadband solar absorption enhancement. <i>Nano Letters</i> , 2014 , 14, 1093-8	11.5	84
8	Enhanced rotation of the polarization of a light beam transmitted through a silver film with an array of perforated S-shaped holes. <i>Physical Review Letters</i> , 2013 , 110, 207401	7.4	126
7	Hybridized effects of plasmonic quadrupolar and dipolar resonances on the perforated planar metallic film. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 065302	3	6
6	Polarization-tunable polariton excitation in a compound plasmonic crystal. <i>Applied Physics Letters</i> , 2012 , 100, 221901	3.4	2
5	Optical properties of a planar metamaterial with chiral symmetry breaking. <i>Optics Letters</i> , 2011 , 36, 3359-61	3.61	31
4	Electric quadrupole excitation in surface plasmon resonance of metallic composite nanohole arrays. <i>Applied Physics Letters</i> , 2011 , 99, 141104	3.4	21
3	Phaselike resonance behavior in optical transmission of sandwich coaxial square ring arrays. <i>Applied Physics Letters</i> , 2010 , 96, 253102	3.4	7

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| 2 | Enhanced optical transmission through metal-dielectric multilayer gratings. <i>Applied Physics Letters</i> , 2010 , 97, 011905 | 3.4 | 20 |
| 1 | Optical properties of a metal film perforated with coaxial elliptical hole arrays. <i>Physical Review E</i> , 2010 , 81, 057601 | 2.4 | 11 |