Meijie Chen

List of Publications by Year
in descending order

50 papers	2,287 citations	201674 27 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	1705 citing authors

#	Article	IF	Citations
1	Investigating the collector efficiency of silver nanofluids based direct absorption solar collectors. Applied Energy, 2016, 181, 65-74.	10.1	197
2	Operando and three-dimensional visualization of anion depletion and lithium growth by stimulated Raman scattering microscopy. Nature Communications, 2018, 9, 2942.	12.8	138
3	An experimental investigation on sunlight absorption characteristics of silver nanofluids. Solar Energy, 2015, 115, 85-94.	6.1	137
4	Enhancement of photo-thermal conversion using gold nanofluids with different particle sizes. Energy Conversion and Management, 2016, 112, 21-30.	9.2	128
5	Designing Mesoporous Photonic Structures for High-Performance Passive Daytime Radiative Cooling. Nano Letters, 2021, 21, 1412-1418.	9.1	106
6	Investigation into Au nanofluids for solar photothermal conversion. International Journal of Heat and Mass Transfer, 2017, 108, 1894-1900.	4.8	101
7	Solar thermal conversion and thermal energy storage of CuO/Paraffin phase change composites. International Journal of Heat and Mass Transfer, 2019, 130, 1133-1140.	4.8	101
8	Synthesis and solar photo-thermal conversion of Au, Ag, and Au-Ag blended plasmonic nanoparticles. Energy Conversion and Management, 2016, 127, 293-300.	9.2	99
9	ZnO-Au composite hierarchical particles dispersed oil-based nanofluids for direct absorption solar collectors. Solar Energy Materials and Solar Cells, 2018, 179, 185-193.	6.2	96
10	Plasmonic nanostructures for broadband solar absorption based on the intrinsic absorption of metals. Solar Energy Materials and Solar Cells, 2018, 188, 156-163.	6.2	76
11	Scalable Aqueous Processingâ€Based Passive Daytime Radiative Cooling Coatings. Advanced Functional Materials, 2021, 31, 2010334.	14.9	74
12	Preparation of Auâ€"Ag bimetallic nanoparticles for enhanced solar photothermal conversion. International Journal of Heat and Mass Transfer, 2017, 114, 1098-1104.	4.8	70
13	Complementary enhanced solar thermal conversion performance of core-shell nanoparticles. Applied Energy, 2018, 211, 735-742.	10.1	67
14	Passive daytime radiative cooling: Fundamentals, material designs, and applications. EcoMat, 2022, 4, e12153.	11.9	56
15	Highâ€Energyâ€Density Foldable Battery Enabled by Zigzagâ€Like Design. Advanced Energy Materials, 2019, 9, 1802998.	19.5	53
16	Numerically investigating the optical properties of plasmonic metallic nanoparticles for effective solar absorption and heating. Solar Energy, 2018, 161, 17-24.	6.1	51
17	Plasmonic multi-thorny Gold nanostructures for enhanced solar thermal conversion. Solar Energy, 2018, 171, 73-82.	6.1	46
18	Solar evaporation enhancement by a compound film based on Au@TiO2 coreâ€"shell nanoparticles. Solar Energy, 2017, 155, 1225-1232.	6.1	43

#	ARTICLE	IF	CITATIONS
19	Shape-dependent solar thermal conversion properties of plasmonic Au nanoparticles under different light filter conditions. Solar Energy, 2019, 182, 340-347.	6.1	41
20	Separating photo-thermal conversion and steam generation process for evaporation enhancement using a solar absorber. Applied Energy, 2019, 236, 244-252.	10.1	40
21	Numerically investigating a wide-angle polarization-independent ultra-broadband solar selective absorber for high-efficiency solar thermal energy conversion. Solar Energy, 2019, 184, 489-496.	6.1	38
22	Coupled plasmon resonances of Au thorn nanoparticles to enhance solar absorption performance. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 250, 107029.	2.3	37
23	Enhancement of solar absorption performance using TiN@SiCw plasmonic nanofluids for effective photo-thermal conversion: Numerical and experimental investigation. Renewable Energy, 2022, 193, 1062-1073.	8.9	33
24	Enhanced solar thermal conversion performance of plasmonic gold dimer nanofluids. Applied Thermal Engineering, 2020, 178, 115561.	6.0	31
25	A Scalable Dealloying Technique To Create Thermally Stable Plasmonic Nickel Selective Solar Absorbers. ACS Applied Energy Materials, 2019, 2, 6551-6557.	5.1	30
26	Systematically investigating solar absorption performance of plasmonic nanoparticles. Energy, 2021, 216, 119254.	8.8	30
27	Investigating the effective radiative cooling performance of random dielectric microsphere coatings. International Journal of Heat and Mass Transfer, 2021, 173, 121263.	4.8	29
28	Solar absorption characteristics of SiO2@Au core-shell composite nanorods for the direct absorption solar collector. Renewable Energy, 2022, 189, 402-411.	8.9	29
29	Enhancing infrared emission behavior of polymer coatings for radiative cooling applications. Journal Physics D: Applied Physics, 2021, 54, 295501.	2.8	27
30	All-Day Freshwater Harvesting by Selective Solar Absorption and Radiative Cooling. ACS Applied Materials & Interfaces, 2022, 14, 26255-26263.	8.0	24
31	Synthesis and optical properties of size-controlled gold nanoparticles. Powder Technology, 2017, 311, 25-33.	4.2	23
32	Performance analysis of solar thermophotovoltaic system with selective absorber/emitter. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107163.	2.3	23
33	Ultra-stable carbon quantum dot nanofluids for direct absorption solar collectors. Solar Energy Materials and Solar Cells, 2022, 240, 111720.	6.2	20
34	Theoretical design of nanoparticle-based spectrally emitter for thermophotovoltaic applications. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114471.	2.7	17
35	All-day continuous electrical power generator by solar heating and radiative cooling from the sky. Applied Energy, 2022, 322, 119403.	10.1	16
36	Highly solar reflectance and infrared transparent porous coating for non-contact heat dissipations. IScience, 2022, 25, 104726.	4.1	16

#	Article	IF	Citations
37	New Insights into Nail Penetration of Liâ€Ion Batteries: Effects of Heterogeneous Contact Resistance. Batteries and Supercaps, 2019, 2, 874-881.	4.7	15
38	Tuning Plasmonic Near-Perfect Absorber for Selective Absorption Applications. Plasmonics, 2019, 14, 1357-1364.	3.4	15
39	Quantifying and Comparing the Near-Field Enhancement, Photothermal Conversion, and Local Heating Performance of Plasmonic SiO2@Au Core-Shell Nanoparticles. Plasmonics, 2019, 14, 1019-1027.	3.4	15
40	Modeling the solar absorption performance of Copper@Carbon coreâ€"shell nanoparticles. Journal of Materials Science, 2021, 56, 13659-13672.	3.7	15
41	Sustainable and self-cleaning bilayer coatings for high-efficiency daytime radiative cooling. Journal of Materials Chemistry C, 2022, 10, 8329-8338.	5.5	14
42	Scalable aqueous processing-based radiative cooling coatings for heat dissipation applications. Applied Materials Today, 2022, 26, 101298.	4.3	13
43	Local temperature control of hybrid plasmonic nano-antennas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 225, 50-57.	2.3	10
44	Selective absorber and emitter boost water evaporation and condensation toward water collection. Materials Today Energy, 2022, 28, 101072.	4.7	10
45	Local Heating Control of Plasmonic Nanoparticles for Different Incident Lights and Nanoparticles. Plasmonics, 2019, 14, 1893-1902.	3.4	9
46	Transparent Display by the Scattering Effect of Plasmonic Au-Ag Nanoparticles. Plasmonics, 2020, 15, 1855-1861.	3.4	8
47	Numerically enhancing daytime radiative cooling performance of random dielectric microsphere coatings by hollow structures. Journal of Photonics for Energy, 2021, 11, .	1.3	6
48	Enhancing the solar absorption performance of nanoparticle suspensions by tuning the scattering effect and incident light location. International Journal of Thermal Sciences, 2022, 177, 107547.	4.9	6
49	Optimized Design of Multi-layer Nano-photonic Structures for Selective Absorption Applications by Artificial Neural Networks. Plasmonics, 2021, 16, 653-659.	3.4	4
50	Solar Thermal Conversion of Plasmonic Nanofluids: Fundamentals and Applications. , 0, , .		4