

# Lei Shi

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,460  
citations

471509

17  
h-index

642732

23  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1235  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of phase change heat transfer in shape-stabilized phase change materials (ss-PCMs) based on porous supports for thermal energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110127.	16.4	307
2	Direct vapor generation through localized solar heating via carbon-nanotube nanofluid. <i>Energy Conversion and Management</i> , 2016, 130, 176-183.	9.2	195
3	Investigation of photothermal heating enabled by plasmonic nanofluids for direct solar steam generation. <i>Solar Energy</i> , 2017, 157, 35-46.	6.1	174
4	Recyclable photo-thermal conversion and purification systems via Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> nanoparticles. <i>Energy Conversion and Management</i> , 2018, 171, 272-278.	9.2	112
5	Recyclable Fe <sub>3</sub> O <sub>4</sub> @CNT nanoparticles for high-efficiency solar vapor generation. <i>Energy Conversion and Management</i> , 2017, 149, 401-408.	9.2	109
6	Solar-thermal conversion and steam generation: a review. <i>Applied Thermal Engineering</i> , 2020, 179, 115691.	6.0	95
7	Thermophysical properties of Fe <sub>3</sub> O <sub>4</sub> @CNT nanofluid and controllable heat transfer performance under magnetic field. <i>Energy Conversion and Management</i> , 2018, 177, 249-257.	9.2	65
8	Investigation of photocatalytic activity through photo-thermal heating enabled by Fe <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> composite under magnetic field. <i>Solar Energy</i> , 2020, 196, 505-512.	6.1	58
9	Dynamic tuning of magnetic phase change composites for solar-thermal conversion and energy storage. <i>Applied Energy</i> , 2020, 263, 114570.	10.1	50
10	Magneto-responsive thermal switch for remote-controlled locomotion and heat transfer based on magnetic nanofluid. <i>Nano Energy</i> , 2020, 71, 104582.	16.0	39
11	Thermo-physical properties prediction of carbon-based magnetic nanofluids based on an artificial neural network. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111341.	16.4	38
12	Magnetic regulating the phase change process of Fe <sub>3</sub> O <sub>4</sub> -paraffin wax nanocomposites in a square cavity. <i>Energy Conversion and Management</i> , 2020, 213, 112829.	9.2	32
13	Magnetocontrollable convective heat transfer of nanofluid through a straight tube. <i>Applied Thermal Engineering</i> , 2019, 162, 114220.	6.0	29
14	Thermophysical characteristics and enhancement analysis of carbon-additives phase change mono and hybrid materials for thermal management of electronic devices. <i>Journal of Energy Storage</i> , 2021, 34, 102231.	8.1	25
15	Hybrid nanofibrous aerogels for all-in-one solar-driven interfacial evaporation. <i>Journal of Colloid and Interface Science</i> , 2022, 624, 377-384.	9.4	23
16	Controllable natural convection in a rectangular enclosure filled with Fe <sub>3</sub> O <sub>4</sub> @CNT nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2019, 140, 399-409.	4.8	22
17	Rapid hydrate-based methane storage promoted by bilayer surfactant-coated Fe <sub>3</sub> O <sub>4</sub> nanoparticles under a magnetic field. <i>Fuel</i> , 2021, 303, 121248.	6.4	20
18	Synthesis of size-controlled hollow Fe <sub>3</sub> O <sub>4</sub> nanospheres and their growth mechanism. <i>Particuology</i> , 2020, 49, 16-23.	3.6	17

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19	Magnetically-accelerated photo-thermal conversion and energy storage based on bionic porous nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2020, 217, 110681.	6.2	14
20	Magnetic Field-induced Enhancement of Phase Change Heat Transfer via Biomimetic Porous Structure for Solar-thermal Energy Storage. <i>Journal of Bionic Engineering</i> , 2021, 18, 1215-1224.	5.0	11
21	Development of TiO <sub>2</sub> /RT-35HC based nanocomposite phase change materials (NCPCMs) for thermal management applications. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 43, 100865.	2.7	10
22	Recyclable purification-evaporation systems based on Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> nanoparticles. <i>Energy Procedia</i> , 2017, 142, 356-361.	1.8	9
23	Bio-inspired Recyclable Carbon Interface for Solar Steam Generation. <i>Journal of Bionic Engineering</i> , 2020, 17, 315-325.	5.0	6
24	Photocatalytic activity enhanced by photo-thermal conversion with recyclable hollow Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 556, 012030.	0.6	0