

# Guohua Liu

## List of Publications by Citations

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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.

56  
papers

1,641  
citations

20  
h-index

40  
g-index

64  
ext. papers

2,002  
ext. citations

8  
avg, IF

5.29  
L-index

#	Paper	IF	Citations
56	Solar water evaporation by black photothermal sheets. <i>Nano Energy</i> , <b>2017</b> , 41, 269-284	17.1	283
55	Engineering TiO <sub>2</sub> nanomaterials for CO <sub>2</sub> conversion/solar fuels. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 105, 53-68	6.4	165
54	Progress on free-standing and flow-through TiO <sub>2</sub> nanotube membranes. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 98, 24-38	6.4	119
53	Electrochemical engineering of hollow nanoarchitectures: pulse/step anodization (Si, Al, Ti) and their applications. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 1476-500	58.5	94
52	Pool boiling heat transfer of ultra-light copper foam with open cells. <i>International Journal of Multiphase Flow</i> , <b>2008</b> , 34, 1008-1022	3.6	93
51	Recent advance on engineering titanium dioxide nanotubes for photochemical and photoelectrochemical water splitting. <i>Nano Energy</i> , <b>2016</b> , 30, 728-744	17.1	83
50	Surface wettability of TiO <sub>2</sub> nanotube arrays prepared by electrochemical anodization. <i>Applied Surface Science</i> , <b>2016</b> , 388, 313-320	6.7	72
49	Solar evaporation for simultaneous steam and power generation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 513-531	13	65
48	Seed bubbles stabilize flow and heat transfer in parallel microchannels. <i>International Journal of Multiphase Flow</i> , <b>2009</b> , 35, 773-790	3.6	58
47	Plasmon-dominated photoelectrodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4233-4253	13	49
46	Photoconductive, free-standing crystallized TiO <sub>2</sub> nanotube membranes. <i>Electrochimica Acta</i> , <b>2013</b> , 93, 80-86	6.7	47
45	Small diameter TiO <sub>2</sub> nanotubes with enhanced photoresponsivity. <i>Electrochemistry Communications</i> , <b>2013</b> , 28, 107-110	5.1	44
44	Blue energy harvesting on nanostructured carbon materials. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18357-18377	13	43
43	Charge Transport in Two-Photon Semiconducting Structures for Solar Fuels. <i>ChemSusChem</i> , <b>2016</b> , 9, 2878-2904	3.3	33
42	An air-cushion triboelectric nanogenerator integrated with stretchable electrode for human-motion energy harvesting and monitoring. <i>Nano Energy</i> , <b>2018</b> , 53, 108-115	17.1	31
41	A voltage-dependent investigation on detachment process for free-standing crystalline TiO <sub>2</sub> nanotube membranes. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 7931-7935	4.3	29
40	Active control of flow and heat transfer in silicon microchannels. <i>Journal of Micromechanics and Microengineering</i> , <b>2010</b> , 20, 045006	2	27

39	Graphene-bridged WO <sub>3</sub> /MoS <sub>2</sub> Z-scheme photocatalyst for enhanced photodegradation under visible light irradiation. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 246, 122827	4.4	25
38	Black silicon with order-disordered structures for enhanced light trapping and photothermal conversion. <i>Nano Energy</i> , <b>2019</b> , 65, 103992	17.1	21
37	PbS Quantum Dots Sensitized TiO <sub>2</sub> Nanotubes for Photocurrent Enhancement. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, E251-E257	3.9	20
36	Electrochemical reduction and capacitance of hybrid titanium dioxides nanotube arrays and nanoglass. <i>Electrochimica Acta</i> , <b>2016</b> , 210, 367-374	6.7	20
35	Solar evaporation of a hanging plasmonic droplet. <i>Solar Energy</i> , <b>2018</b> , 170, 184-191	6.8	17
34	Electrochemically Reduced Graphene Oxide on Well-Aligned Titanium Dioxide Nanotube Arrays for Betavoltaic Enhancement. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24638-44	9.5	16
33	Fast charge separation and photocurrent enhancement on black TiO <sub>2</sub> nanotubes co-sensitized with Au nanoparticles and PbS quantum dots. <i>Electrochimica Acta</i> , <b>2018</b> , 277, 244-254	6.7	16
32	Enhanced visible light catalytic activity of MoS <sub>2</sub> /TiO <sub>2</sub> /Ti photocathode by hybrid-junction. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 416-423	21.8	16
31	The critical nanofluid concentration as the crossover between changed and unchanged solar-driven droplet evaporation rates. <i>Nano Energy</i> , <b>2019</b> , 57, 791-803	17.1	16
30	Seed bubbles trigger boiling heat transfer in silicon microchannels. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 8, 341-359	2.8	14
29	Multi-channel effect of condensation flow in a micro triple-channel condenser. <i>International Journal of Multiphase Flow</i> , <b>2008</b> , 34, 1175-1184	3.6	14
28	Plasmon heating of one-dimensional gold nanoparticle chains. <i>Solar Energy</i> , <b>2018</b> , 173, 665-674	6.8	12
27	Solar water sterilization enabled by photothermal nanomaterials. <i>Nano Energy</i> , <b>2021</b> , 87, 106158	17.1	11
26	Solar steam generation enabled by bubbly flow nanofluids. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 206, 110292	6.4	9
25	Transferable, conductive TiO <sub>2</sub> nanotube membranes for optoelectronics. <i>Applied Surface Science</i> , <b>2014</b> , 311, 529-533	6.7	8
24	Seed Bubble Guided Heat Transfer in a Single Microchannel. <i>Heat Transfer Engineering</i> , <b>2011</b> , 32, 1031-1036	3.6	7
23	Betavoltaic effect in titanium dioxide nanotube arrays under build-in potential difference. <i>Journal of Power Sources</i> , <b>2015</b> , 282, 529-533	8.9	6
22	Enhanced visible light photochemical activity and stability of MoS <sub>2</sub> /Cu <sub>2</sub> O nanocomposites by tunable heterojunction. <i>Materials Today Communications</i> , <b>2020</b> , 23, 100933	2.5	5

21	A betavoltaic microbattery using zinc oxide nanowires under build in potential difference <b>2016</b> ,		5
20	Concept design of supercritical CO <sub>2</sub> cycle driven by pressurized fluidized bed combustion (PFBC) boiler. <i>Applied Thermal Engineering</i> , <b>2020</b> , 166, 114756	5.8	5
19	Fabrication and formation mechanisms of ultra-thick porous anodic oxides film with controllable morphology on type-304 stainless steel. <i>Applied Surface Science</i> , <b>2020</b> , 505, 144497	6.7	5
18	Solar vapor generation using bubbly flow nanofluids with collaborative light-harvesting nanoparticles. <i>Solar Energy</i> , <b>2020</b> , 207, 1214-1221	6.8	5
17	Study of plasmonics induced optical absorption enhancement of Au embedded in titanium dioxide nanohole arrays. <i>Optical Materials Express</i> , <b>2017</b> , 7, 2871	2.6	4
16	Advances in engineering perovskite oxides for photochemical and photoelectrochemical water splitting. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 021320	17.3	4
15	Phase separation evaporator using pin-fin-porous wall microchannels: Comprehensive upgrading of thermal-hydraulic operating performance. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 164, 120460	4.9	4
14	Dopamine-Mediated Bacterial Cellulose/Hexagonal Boron Nitride Composite Films with Enhanced Thermal and Mechanical Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 4601-4611	3.9	3
13	Multiscale Characteristic in Symmetric/Asymmetric Solar-Driven Nanofluid Droplet Evaporation. <i>Langmuir</i> , <b>2020</b> , 36, 1680-1690	4	2
12	Study of electrical field distribution and growth of gradient-arrayed TiO <sub>2</sub> nanotubes by electrochemical anodization <b>2013</b> ,		2
11	Effect of Running Parameters on Flow Boiling Instabilities in Microchannels. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2015</b> , 15, 2976-83	1.3	2
10	Effect of channel surface wettability and temperature gradients on the boiling flow pattern in a single microchannel. <i>Journal of Micromechanics and Microengineering</i> , <b>2009</b> , 19, 055012	2	2
9	Enhanced photoelectric response of plasmon-active ZnO nanorods by spatial modulation of dielectric environment. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 776, 149-155	5.7	2
8	Nanoscale thermoplasmonic welding. <i>IScience</i> , <b>2022</b> , 104422	6.1	2
7	Photoconductivity of Au-coated TiO <sub>2</sub> nanotube arrays <b>2014</b> ,		1
6	Effects of Polyacrylamide and Particle Size on Combustion of Al <sub>2</sub> O <sub>3</sub> -Based Propellants. <i>Journal of Chemical Engineering of Japan</i> , <b>2014</b> , 47, 730-736	0.8	1
5	Solar thermal evaporation using bubbly nanofluids with recyclable magnetic particles. <i>Materials Today Communications</i> , <b>2021</b> , 26, 102084	2.5	1
4	All-in-one photosynthetic assemblies for solar fuels. <i>Materials Today Energy</i> , <b>2018</b> , 10, 368-379	7	1

- 3 Solar-driven interfacial evaporation of a hanging liquid marble. *Solar Energy Materials and Solar Cells*, **2022**, 234, 111430 6.4 ○
- 2 Reducing solvent evaporation rates for the detachment of anodic TiO<sub>2</sub> nanotubular membranes. *Materials Research Society Symposia Proceedings*, **2012**, 1442, 1
- 1 In Situ Oil Separation and Collection from Water under Surface Wave Condition. *Langmuir*, **2021**, 37, 6254-6267