

# Guohua Liu

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8809076/guohua-liu-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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-driven interfacial evaporation of a hanging liquid marble. <i>Solar Energy Materials and Solar Cells</i> , <b>2022</b> , 234, 111430	6.4	0
55	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
54	Nanoscale thermoplasmonic welding. <i>IScience</i> , <b>2022</b> , 104422	6.1	2
53	In Situ Oil Separation and Collection from Water under Surface Wave Condition. <i>Langmuir</i> , <b>2021</b> , 37, 6257-6267	4.1	1
52	Advances in engineering perovskite oxides for photochemical and photoelectrochemical water splitting. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 021320	17.3	4
51	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
50	Solar thermal evaporation using bubbly nanofluids with recyclable magnetic particles. <i>Materials Today Communications</i> , <b>2021</b> , 26, 102084	2.5	1
49	Solar water sterilization enabled by photothermal nanomaterials. <i>Nano Energy</i> , <b>2021</b> , 87, 106158	17.1	11
48	Multiscale Characteristic in Symmetric/Asymmetric Solar-Driven Nanofluid Droplet Evaporation. <i>Langmuir</i> , <b>2020</b> , 36, 1680-1690	4	2
47	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
46	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
45	Solar evaporation for simultaneous steam and power generation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 513-531	13	65
44	Solar steam generation enabled by bubbly flow nanofluids. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 206, 110292	6.4	9
43	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
42	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
41	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
40	Black silicon with order-disordered structures for enhanced light trapping and photothermic conversion. <i>Nano Energy</i> , <b>2019</b> , 65, 103992	17.1	21

39	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
38	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
37	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
36	Plasmon heating of one-dimensional gold nanoparticle chains. <i>Solar Energy</i> , <b>2018</b> , 173, 665-674	6.8	12
35	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
34	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
33	All-in-one photosynthetic assemblies for solar fuels. <i>Materials Today Energy</i> , <b>2018</b> , 10, 368-379	7	1
32	Blue energy harvesting on nanostructured carbon materials. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18357-18377	13	43
31	Solar evaporation of a hanging plasmonic droplet. <i>Solar Energy</i> , <b>2018</b> , 170, 184-191	6.8	17
30	Plasmon-dominated photoelectrodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4233-4253	13	49
29	Solar water evaporation by black photothermal sheets. <i>Nano Energy</i> , <b>2017</b> , 41, 269-284	17.1	283
28	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
27	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
26	Charge Transport in Two-Photon Semiconducting Structures for Solar Fuels. <i>ChemSusChem</i> , <b>2016</b> , 9, 2878-2904	33	
25	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
24	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
23	A betavoltaic microbattery using zinc oxide nanowires under build in potential difference <b>2016</b> ,		5
22	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

21	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
20	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
19	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
18	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
17	Transferable, conductive TiO <sub>2</sub> nanotube membranes for optoelectronics. <i>Applied Surface Science</i> , <b>2014</b> , 311, 529-533	6.7	8
16	Photoconductivity of Au-coated TiO <sub>2</sub> nanotube arrays <b>2014</b> ,		1
15	Effects of Polyacrylamide and Particle Size on Combustion of AlH <sub>3</sub> /TiO <sub>2</sub> -Based Propellants. <i>Journal of Chemical Engineering of Japan</i> , <b>2014</b> , 47, 730-736	0.8	1
14	Study of electrical field distribution and growth of gradient-arrayed TiO <sub>2</sub> nanotubes by electrochemical anodization <b>2013</b> ,		2
13	Small diameter TiO <sub>2</sub> nanotubes with enhanced photoresponsivity. <i>Electrochemistry Communications</i> , <b>2013</b> , 28, 107-110	5.1	44
12	Photoconductive, free-standing crystallized TiO <sub>2</sub> nanotube membranes. <i>Electrochimica Acta</i> , <b>2013</b> , 93, 80-86	6.7	47
11	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
10	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
9	Reducing solvent evaporation rates for the detachment of anodic TiO <sub>2</sub> nanotubular membranes. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1442, 1		
8	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
7	Seed Bubble Guided Heat Transfer in a Single Microchannel. <i>Heat Transfer Engineering</i> , <b>2011</b> , 32, 1031-1036		7
6	Active control of flow and heat transfer in silicon microchannels. <i>Journal of Micromechanics and Microengineering</i> , <b>2010</b> , 20, 045006	2	27
5	Seed bubbles trigger boiling heat transfer in silicon microchannels. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 8, 341-359	2.8	14
4	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

3	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
2	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
1	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