

Liping Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1680445/publications.pdf>

Version: 2024-02-01

78
papers

3,786
citations

117625

34
h-index

123424

61
g-index

79
all docs

79
docs citations

79
times ranked

2394
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and energy analysis of tunable nanophotonic infrared filter based on thermochromic vanadium dioxide. <i>International Journal of Heat and Mass Transfer</i> , 2022, 186, 122515.	4.8	6
2	In Situ Temperature Dependent Optical Characterization and Modeling of Dealloyed Thin-Film Nanoporous Gold Absorbers. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	2
3	Ultrasound-assisted regeneration of activated alumina/water adsorption pair for drying and dehumidification processes. <i>Ultrasonics</i> , 2022, 124, 106769.	3.9	6
4	Augmentation of natural convection heat transfer in enclosures via ultrasound: Effects of power, frequency and temperature. <i>Thermal Science and Engineering Progress</i> , 2022, 33, 101374.	2.7	4
5	Enhancing solar-thermal energy conversion with silicon-cored tungsten nanowire selective metamaterial absorbers. <i>IScience</i> , 2021, 24, 101899.	4.1	7
6	STRUCTURED POLYDIMETHYLSILOXANE (PDMS) COMPOSITE WITH ENHANCED THERMAL AND RADIATIVE PROPERTIES FOR HEAT DISSIPATION. <i>Journal of Enhanced Heat Transfer</i> , 2021, 28, 79-93.	1.1	4
7	Semiconductor-based selective emitter with a sharp cutoff for thermophotovoltaic energy conversion. <i>Optics Letters</i> , 2021, 46, 3163.	3.3	9
8	Optoelectronic analysis of spectrally selective nanophotonic metafilm cell for thermophotovoltaic energy conversion. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 268, 107625.	2.3	5
9	Cryothermal vacuum measurement of thermochromic variable-emittance coatings with heating/cooling hysteresis for spacecraft thermal management. <i>Applied Thermal Engineering</i> , 2021, 199, 117561.	6.0	14
10	Super-Planckian Radiative Heat Transfer between Macroscale Surfaces with Vacuum Gaps Down to 190 nm Directly Created by SU-8 Posts and Characterized by Capacitance Method. <i>ACS Photonics</i> , 2020, 7, 190-196.	6.6	22
11	Spectrally-selective vanadium dioxide based tunable metafilm emitter for dynamic radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2020, 217, 110739.	6.2	65
12	Super-Planckian radiative heat transfer between macroscale metallic surfaces due to near-field and thin-film effects. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	18
13	Eco-friendly and scalable radiative cooling for metal substrates with electrophoretically deposited chitosan. <i>Solar Energy Materials and Solar Cells</i> , 2020, 216, 110707.	6.2	7
14	Optical characterization and modeling of nanoporous gold absorbers fabricated by thin-film dealloying. <i>Nanotechnology</i> , 2020, 31, 405706.	2.6	9
15	Near-field radiative heat transfer between nanowire-based dual uniaxial magneto-dielectric metamaterials. <i>International Journal of Heat and Mass Transfer</i> , 2020, 158, 120023.	4.8	13
16	Enhanced Infrared Emission by Thermally Switching the Excitation of Magnetic Polariton with Scalable Microstructured VO ₂ Metasurfaces. <i>ACS Photonics</i> , 2020, 7, 2219-2227.	6.6	51
17	Ultrasound-assisted regeneration of zeolite/water adsorption pair. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 105042.	8.2	20
18	Scalable dual-layer film with broadband infrared emission for sub-ambient daytime radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110393.	6.2	62

#	ARTICLE	IF	CITATIONS
19	Bulk material based selective infrared emitter for sub-ambient daytime radiative cooling. Solar Energy Materials and Solar Cells, 2020, 211, 110548.	6.2	37
20	Retrieval of Uniaxial Permittivity and Permeability for the Study of Near-Field Radiative Transport Between Metallic Nanowire Arrays. Journal of Heat Transfer, 2020, 142, .	2.1	2
21	High-Temperature Solar Thermal Energy Conversion Enhanced by Spectrally-Selective Metafilm Absorber under Concentrated Solar Irradiation. ES Energy & Environments, 2020, , .	1.1	2
22	SPECTRAL CONTROL OF THERMAL RADIATION BY EXCITATION OF MAGNETIC POLARITONS. Annual Review of Heat Transfer, 2020, 23, 167-197.	1.0	0
23	Tuning the Infrared Absorption of SiC Metasurfaces by Electrically Gating Monolayer Graphene with Solid Polymer Electrolyte for Dynamic Radiative Thermal Management and Sensing Applications. ACS Applied Nano Materials, 2019, 2, 4810-4817.	5.0	7
24	Theoretical analysis of solar thermophotovoltaic energy conversion with selective metafilm and cavity reflector. Solar Energy, 2019, 191, 623-628.	6.1	30
25	Near-field thermophotovoltaic energy conversion by excitation of magnetic polariton inside nanometric vacuum gaps with nanostructured Drude emitter and backside reflector. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 234, 108-114.	2.3	15
26	Thermally-switchable spectrally-selective infrared metamaterial absorber/emitter by tuning magnetic polariton with a phase-change VO ₂ layer. Materials Today Energy, 2019, 13, 214-220.	4.7	46
27	Fabrication and characterization of furnace oxidized vanadium dioxide thin films. Thin Solid Films, 2019, 682, 29-36.	1.8	12
28	Simultaneously enhanced solar absorption and radiative cooling with thin silica micro-grating coatings for silicon solar cells. Solar Energy Materials and Solar Cells, 2019, 197, 19-24.	6.2	55
29	Temperature-dependent Optical Characterization of VO ₂ Thin Film Prepared from Furnace Oxidation Method. ES Materials & Manufacturing, 2019, , .	1.9	6
30	Materials Properties and Manufacturing Processes. ES Materials & Manufacturing, 2019, , .	1.9	0
31	Plasmonic light trapping for enhanced light absorption in film-coupled ultrathin metamaterial thermophotovoltaic cells. Frontiers in Energy, 2018, 12, 185-194.	2.3	18
32	Design, fabrication and optical characterizations of large-area lithography-free ultrathin multilayer selective solar coatings with excellent thermal stability in air. Solar Energy Materials and Solar Cells, 2018, 174, 445-452.	6.2	65
33	Highly efficient sub-100-nm thermophotovoltaic cells enhanced by spectrally selective two-dimensional metasurface. Journal of Photonics for Energy, 2018, 9, 1.	1.3	3
34	Electrically-controlled near-field radiative thermal modulator made of graphene-coated silicon carbide plates. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 197, 68-75.	2.3	37
35	Vanadium dioxide based Fabry-Perot emitter for dynamic radiative cooling applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 197, 76-83.	2.3	116
36	Effect of magnetic polaritons in SiC deep gratings on near-field radiative transfer. International Journal of Heat and Mass Transfer, 2017, 108, 851-859.	4.8	29

#	ARTICLE	IF	CITATIONS
37	Tungsten Nanowire Metamaterials as Selective Solar Thermal Absorbers by Excitation of Magnetic Polaritons. <i>Journal of Heat Transfer</i> , 2017, 139, .	2.1	16
38	Optical absorption enhancement in monolayer MoS2 using multi-order magnetic polaritons. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 200, 198-205.	2.3	29
39	Performance Analysis of a Near-Field Thermophotovoltaic Device With a Metalodielectric Selective Emitter and Electrical Contacts for the Photovoltaic Cell. <i>Journal of Heat Transfer</i> , 2017, 139, .	2.1	29
40	Wavelength-selective and diffuse infrared thermal emission mediated by magnetic polaritons from silicon carbide metasurfaces. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	26
41	Plasmonic localized heating beyond the diffraction limit via magnetic polariton excitation. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	1
42	Near-field thermal radiation between homogeneous dual uniaxial electromagnetic metamaterials. <i>Journal of Applied Physics</i> , 2016, 119, 213108.	2.5	9
43	Performance analysis of solar thermophotovoltaic conversion enhanced by selective metamaterial absorbers and emitters. <i>International Journal of Heat and Mass Transfer</i> , 2016, 98, 788-798.	4.8	69
44	Microscale Silicon Origami. <i>Small</i> , 2016, 12, 5401-5406.	10.0	34
45	Enhanced energy transfer by near-field coupling of a nanostructured metamaterial with a graphene-covered plate. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 184, 58-67.	2.3	23
46	Spectrally Enhancing Near-Field Radiative Transfer between Metallic Gratings by Exciting Magnetic Polaritons in Nanometric Vacuum Gaps. <i>Physical Review Letters</i> , 2016, 117, 044301.	7.8	76
47	Plasmonic light trapping in an ultrathin photovoltaic layer with film-coupled metamaterial structures. <i>AIP Advances</i> , 2015, 5, .	1.3	10
48	Near-Field Thermal Radiation: Recent Progress and Outlook. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2015, 19, 98-126.	2.6	116
49	Plasmonic local heating beyond diffraction limit by the excitation of magnetic polariton. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
50	High-temperature selective solar thermal absorber based on Fabry-Perot resonance cavity. , 2015, , .		0
51	Tailoring thermal radiative properties with film-coupled concave grating metamaterials. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 158, 127-135.	2.3	39
52	Vacuum thermal switch made of phase transition materials considering thin film and substrate effects. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 158, 69-77.	2.3	75
53	Highly efficient selective metamaterial absorber for high-temperature solar thermal energy harvesting. <i>Solar Energy Materials and Solar Cells</i> , 2015, 137, 235-242.	6.2	230
54	Indium tin oxide nanowires as hyperbolic metamaterials for near-field radiative heat transfer. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	20

#	ARTICLE	IF	CITATIONS
55	Tungsten nanowire based hyperbolic metamaterial emitters for near-field thermophotovoltaic applications. International Journal of Heat and Mass Transfer, 2015, 87, 237-247.	4.8	89
56	Micro- and Nanostructured Surfaces for Selective Solar Absorption. Advanced Optical Materials, 2015, 3, 852-881.	7.3	154
57	Infrared frequency-tunable coherent thermal sources. Journal of Optics (United Kingdom), 2015, 17, 045104.	2.2	24
58	Near-field radiative heat transfer between metamaterials coated with silicon carbide thin films. Applied Physics Letters, 2015, 106, .	3.3	38
59	Switchable wavelength-selective and diffuse metamaterial absorber/emitter with a phase transition spacer layer. Applied Physics Letters, 2014, 105, .	3.3	87
60	Wavelength-tunable infrared metamaterial by tailoring magnetic resonance condition with VO ₂ phase transition. Journal of Applied Physics, 2014, 116, .	2.5	49
61	Selective absorption of visible light in film-coupled nanoparticles by exciting magnetic resonance. Optics Letters, 2014, 39, 1457.	3.3	33
62	Effect of magnetic polaritons on the radiative properties of inclined plate arrays. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 132, 52-60.	2.3	16
63	Thermophotovoltaic emitters based on a two-dimensional grating/thin-film nanostructure. International Journal of Heat and Mass Transfer, 2013, 67, 637-645.	4.8	179
64	Anisotropic optical properties of silicon nanowire arrays based on the effective medium approximation. International Journal of Thermal Sciences, 2013, 65, 62-69.	4.9	59
65	Perfect selective metamaterial solar absorbers. Optics Express, 2013, 21, A1078.	3.4	290
66	Radiation-based near-field thermal rectification with phase transition materials. Applied Physics Letters, 2013, 103, .	3.3	161
67	Near-field radiative heat transfer between doped silicon nanowire arrays. Applied Physics Letters, 2013, 102, .	3.3	53
68	Thermal Rectification Enabled by Near-Field Radiative Heat Transfer Between Intrinsic Silicon and a Dissimilar Material. Nanoscale and Microscale Thermophysical Engineering, 2013, 17, 337-348.	2.6	115
69	Wavelength-selective and diffuse emitter enhanced by magnetic polaritons for thermophotovoltaics. Applied Physics Letters, 2012, 100, .	3.3	152
70	Phonon-mediated magnetic polaritons in the infrared region. Optics Express, 2011, 19, A126.	3.4	107
71	Direct calculation of energy streamlines in near-field thermal radiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1149-1155.	2.3	15
72	Direct and Indirect Methods for Calculating Thermal Emission From Layered Structures With Nonuniform Temperatures. Journal of Heat Transfer, 2011, 133, .	2.1	44

#	ARTICLE	IF	CITATIONS
73	Highly specular carbon nanotube absorbers. Applied Physics Letters, 2010, 97, 163116.	3.3	39
74	Effect of magnetic polaritons on the radiative properties of double-layer nanoslit arrays. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2595.	2.1	67
75	Resonance transmission or absorption in deep gratings explained by magnetic polaritons. Applied Physics Letters, 2009, 95, .	3.3	100
76	Spatial and temporal coherence of thermal radiation in asymmetric Fabry-Pérot resonance cavities. International Journal of Heat and Mass Transfer, 2009, 52, 3024-3031.	4.8	74
77	Coherent thermal emission by excitation of magnetic polaritons between periodic strips and a metallic film. Optics Express, 2008, 16, 11328.	3.4	229
78	Application of ultrasound in regeneration of silica gel for industrial gas drying processes. Drying Technology, 0, , 1-9.	3.1	5