

Li Gao

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

6,668
citations

117625

34
h-index

95266

68
g-index

74
all docs

74
docs citations

74
times ranked

9600
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembly of highly efficient, broadband plasmonic absorbers for solar steam generation. <i>Science Advances</i> , 2016, 2, e1501227.	10.3	1,025
2	Training Deep Neural Networks for the Inverse Design of Nanophotonic Structures. <i>ACS Photonics</i> , 2018, 5, 1365-1369.	6.6	657
3	Tree-Inspired Design for High-Efficiency Water Extraction. <i>Advanced Materials</i> , 2017, 29, 1704107.	21.0	494
4	Producing air-stable monolayers of phosphorene and their defect engineering. <i>Nature Communications</i> , 2016, 7, 10450.	12.8	443
5	A polydimethylsiloxane-coated metal structure for all-day radiative cooling. <i>Nature Sustainability</i> , 2019, 2, 718-724.	23.7	379
6	Limitations of nonlinear optical isolators due to dynamic reciprocity. <i>Nature Photonics</i> , 2015, 9, 388-392.	31.4	372
7	Optical tuning of exciton and trion emissions in monolayer phosphorene. <i>Light: Science and Applications</i> , 2015, 4, e312-e312.	16.6	276
8	Epidermal photonic devices for quantitative imaging of temperature and thermal transport characteristics of the skin. <i>Nature Communications</i> , 2014, 5, 4938.	12.8	227
9	Adaptive optoelectronic camouflage systems with designs inspired by cephalopod skins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12998-13003.	7.1	197
10	Stretchable elastic synaptic transistors for neurologically integrated soft engineering systems. <i>Science Advances</i> , 2019, 5, eaax4961.	10.3	191
11	Single-shot on-chip spectral sensors based on photonic crystal slabs. <i>Nature Communications</i> , 2019, 10, 1020.	12.8	190
12	Extreme Light Management in Mesoporous Wood Cellulose Paper for Optoelectronics. <i>ACS Nano</i> , 2016, 10, 1369-1377.	14.6	161
13	Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. <i>Advanced Materials</i> , 2016, 28, 5200-5205.	21.0	134
14	Graphene Hybrid Structures for Integrated and Flexible Optoelectronics. <i>Advanced Materials</i> , 2020, 32, e1902039.	21.0	127
15	Atomically thin optical lenses and gratings. <i>Light: Science and Applications</i> , 2016, 5, e16046-e16046.	16.6	107
16	A Bidirectional Deep Neural Network for Accurate Silicon Color Design. <i>Advanced Materials</i> , 2019, 31, e1905467.	21.0	98
17	Angle-selective perfect absorption with two-dimensional materials. <i>Light: Science and Applications</i> , 2016, 5, e16052-e16052.	16.6	94
18	Extraordinarily Bound Quasi-One-Dimensional Trions in Two-Dimensional Phosphorene Atomic Semiconductors. <i>ACS Nano</i> , 2016, 10, 2046-2053.	14.6	92

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19	Optics and Nonlinear Buckling Mechanics in Large-Area, Highly Stretchable Arrays of Plasmonic Nanostructures. <i>ACS Nano</i> , 2015, 9, 5968-5975.	14.6	87
20	Vapor condensation with daytime radiative cooling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	86
21	Large-Scale Spinning of Silver Nanofibers as Flexible and Reliable Conductors. <i>Nano Letters</i> , 2016, 16, 5846-5851.	9.1	81
22	Efficient and Layer-Dependent Exciton Pumping across Atomically Thin Organic-Inorganic Type-II Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1803986.	21.0	79
23	Single-crystalline germanium nanomembrane photodetectors on foreign nanocavities. <i>Science Advances</i> , 2017, 3, e1602783.	10.3	76
24	Silicon single-photon avalanche diodes with nano-structured light trapping. <i>Nature Communications</i> , 2017, 8, 628.	12.8	69
25	Subwavelength angle-sensing photodetectors inspired by directional hearing in small animals. <i>Nature Nanotechnology</i> , 2018, 13, 1143-1147.	31.5	66
26	Deep neural network for plasmonic sensor modeling. <i>Optical Materials Express</i> , 2019, 9, 3857.	3.0	59
27	Spectral analysis based on compressive sensing in nanophotonic structures. <i>Optics Express</i> , 2014, 22, 25608.	3.4	54
28	Nanoimprinting Techniques for Large-Area Three-Dimensional Negative Index Metamaterials with Operation in the Visible and Telecom Bands. <i>ACS Nano</i> , 2014, 8, 5535-5542.	14.6	51
29	A flexible and transparent ceramic nanobelt network for soft electronics. <i>NPG Asia Materials</i> , 2014, 6, e86-e86.	7.9	50
30	Enhanced Performance of Ge Photodiodes via Monolithic Antireflection Texturing and Intrinsic-Ge Self-Passivation by Inverse Metal-Assisted Chemical Etching. <i>ACS Nano</i> , 2018, 12, 6748-6755.	14.6	50
31	Inverse Design of Metasurfaces Based on Coupled-Mode Theory and Adjoint Optimization. <i>ACS Photonics</i> , 2021, 8, 2265-2273.	6.6	45
32	Efficient Mid-Infrared Light Confinement within Sub-50nm Gaps for Extreme Field Enhancement. <i>Advanced Optical Materials</i> , 2017, 5, 1700223.	7.3	39
33	Neural network enabled metasurface design for phase manipulation. <i>Optics Express</i> , 2021, 29, 2521.	3.4	39
34	Compact CMOS spectral sensor for the visible spectrum. <i>Photonics Research</i> , 2019, 7, 961.	7.0	35
35	Extraordinarily Large Optical Cross Section for Localized Single Nanoresonator. <i>Physical Review Letters</i> , 2015, 115, 023903.	7.8	34
36	Electromagnetic scattering laws in Weyl systems. <i>Nature Communications</i> , 2017, 8, 1388.	12.8	34

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37	Computational spectrometers enabled by nanophotonics and deep learning. <i>Nanophotonics</i> , 2022, 11, 2507-2529.	6.0	33
38	Analog of superradiant emission in thermal emitters. <i>Physical Review B</i> , 2015, 92, .	3.2	23
39	Materials Selections and Growth Conditions for Large Area, Multilayered, Visible Negative Index Metamaterials Formed by Nanotransfer Printing. <i>Advanced Optical Materials</i> , 2014, 2, 256-261.	7.3	22
40	Soft and transient magnesium plasmonics for environmental and biomedical sensing. <i>Nano Research</i> , 2018, 11, 4390-4400.	10.4	21
41	Nonreciprocal Thermal Emitters Using Metasurfaces with Multiple Diffraction Channels. <i>Physical Review Applied</i> , 2021, 16, .	3.8	21
42	Analysis of microstructure evolution and precise solid fraction evaluation of A356 aluminum alloy during partial re-melting by a color etching method. <i>Journal of Materials Science</i> , 2012, 47, 6553-6564.	3.7	20
43	Spectrally selective solar absorber with sharp and temperature dependent cut-off based on semiconductor nanowire arrays. <i>Applied Physics Letters</i> , 2017, 110, 201108.	3.3	20
44	Self-Focused Thermal Emission and Holography Realized by Mesoscopic Thermal Emitters. <i>ACS Photonics</i> , 2021, 8, 497-504.	6.6	18
45	Extended Range of Dipole-Dipole Interactions in Periodically Structured Photonic Media. <i>Physical Review Letters</i> , 2019, 123, 173901.	7.8	17
46	Real-time deep learning design tool for far-field radiation profile. <i>Photonics Research</i> , 2021, 9, B104.	7.0	16
47	Deep neural network for designing near- and far-field properties in plasmonic antennas. <i>Optical Materials Express</i> , 2021, 11, 1907.	3.0	15
48	Enhancing radiative energy transfer through thermal extraction. <i>Nanophotonics</i> , 2016, 5, 22-30.	6.0	13
49	Using active gain to maximize light absorption. <i>Physical Review B</i> , 2017, 96, .	3.2	13
50	Angle-based wavefront sensing enabled by the near fields of flat optics. <i>Nature Communications</i> , 2021, 12, 6002.	12.8	13
51	Resonant cavity germanium photodetector via stacked single-crystalline nanomembranes. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, .	1.2	12
52	High-sensitivity silicon ultraviolet p+i-n avalanche photodiode using ultra-shallow boron gradient doping. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	12
53	Direct Object Recognition Without Line-Of-Sight Using Optical Coherence. , 2019, , .		10
54	Comparison of Different Neural Network Architectures for Plasmonic Inverse Design. <i>ACS Omega</i> , 2021, 6, 23076-23082.	3.5	10

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55	Enhancing the optical cross section of quantum antenna. <i>Physical Review A</i> , 2017, 95, .	2.5	8
56	Design and Fabrication of Blue LED-Integrated Graphene Electrodes for Neural Stimulation and Signal Recording. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4308-4316.	4.3	8
57	Deep Neural Networks: A Bidirectional Deep Neural Network for Accurate Silicon Color Design (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	21.0	8
58	Visualization of solute distributions in dendritic and spheroidized Al grains characterized by both color etching method and electron probe microanalysis. <i>Journal of Materials Science</i> , 2014, 49, 1286-1296.	3.7	5
59	Three-Dimensional Printed Planar Polymer Photonic Topological Insulator Waveguides and Their Robustness to Lattice Defects. <i>ACS Photonics</i> , 2022, 9, 1793-1802.	6.6	5
60	Resonance for Analog Recurrent Neural Network. <i>ACS Photonics</i> , 2022, 9, 1647-1654.	6.6	5
61	Microstructure Analysis of Quenched Semi-Solid A356 Aluminum Alloy Slurry by Using Weckâ€™s Reagent. <i>Materials Transactions</i> , 2020, 61, 1077-1083.	1.2	4
62	Compounding a High-Permittivity Thermoplastic Material and Its Applicability in Manufacturing of Microwave Photonic Crystals. <i>Materials</i> , 2022, 15, 2492.	2.9	4
63	Artificial transpiration: an efficient means of waste-water treatment. <i>National Science Review</i> , 2018, 5, 120-121.	9.5	3
64	Negative Index Materials: Materials Selections and Growth Conditions for Large-Area, Multilayered, Visible Negative Index Metamaterials Formed by Nanotransfer Printing (<i>Advanced Optical Materials</i>) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>		
65	Analyses of postbuckling in stretchable arrays of nanostructures for wide-band tunable plasmonics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150632.	2.1	2
66	Strong and long-range radiative interaction between resonant transitions. <i>Physical Review Research</i> , 2022, 4, .	3.6	2
67	SAFT: Shotgun advancing front technique for massively parallel mesh generation on graphics processing unit. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 4391-4406.	2.8	2
68	Recent advances on non-reciprocal light manipulation from dynamic modulation. , 2015, , .		0
69	A heated junction. <i>Nature Nanotechnology</i> , 2017, 12, 723-724.	31.5	0
70	Nano-indented Ge surfaces by metal-assisted chemical etching (MacEtch) and its application for optoelectronic devices. , 2017, , .		0
71	Nonlinear Nanophotonic Media for Artificial Neural Computing. , 2019, , .		0