

Haoliang Qian

List of Publications by Year in descending order

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36
papers

1,195
citations

430874

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h-index

477307

29
g-index

36
all docs

36
docs citations

36
times ranked

1564
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear all-optical modulator based on non-Hermitian PT symmetry. Photonics Research, 2022, 10, 980.	7.0	5
2	Dynamic recognition and mirage using neuro-metamaterials. Nature Communications, 2022, 13, 2694.	12.8	37
3	Two-dimensional optical spatial differentiation and high-contrast imaging. National Science Review, 2021, 8, nwaa176.	9.5	74
4	Kerr Metasurface Enabled by Metallic Quantum Wells. Nano Letters, 2021, 21, 330-336.	9.1	8
5	Highly-efficient electrically-driven localized surface plasmon source enabled by resonant inelastic electron tunneling. Nature Communications, 2021, 12, 3111.	12.8	22
6	Broadband Transparent Electrode in Visible/Near-Infrared Regions. ACS Photonics, 2021, 8, 2203-2210.	6.6	4
7	Influence of Hafnium Defects on the Optical and Structural Properties of Zirconium Nitride. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100372.	2.4	2
8	High-Speed Efficient On-Chip Electro-Optic Modulator Based on Midinfrared Hyperbolic Metamaterials. Physical Review Applied, 2021, 16, .	3.8	6
9	Metasurface enabled quantum edge detection. Science Advances, 2020, 6, .	10.3	103
10	SECOND-ORDER NONLINEAR SUSCEPTIBILITY ENHANCEMENT IN GALLIUM NITRIDE NANOWIRES (INVITED). Progress in Electromagnetics Research, 2020, 168, 25-30.	4.4	10
11	Anomalous Nonlinear Optical Selection Rules in Metallic Quantum Wells. Advanced Functional Materials, 2020, 30, 2000829.	14.9	1
12	Large second-order nonlinearity in asymmetric metallic quantum wells. Applied Physics Letters, 2020, 116, 241105.	3.3	0
13	Nanoscale optical pulse limiter enabled by refractory metallic quantum wells. Science Advances, 2020, 6, eaay3456.	10.3	16
14	A spin controlled wavefront shaping metasurface with low dispersion in visible frequencies. Nanoscale, 2019, 11, 17111-17119.	5.6	14
15	Large optical nonlinearity enabled by coupled metallic quantum wells. Light: Science and Applications, 2019, 8, 13.	16.6	41
16	Optical edge detection based on high-efficiency dielectric metasurface. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11137-11140.	7.1	251
17	Nanostructuring Multilayer Hyperbolic Metamaterials for Ultrafast and Bright Green InGaN Quantum Wells. Advanced Materials, 2018, 30, e1706411.	21.0	49
18	Controlled Homoepitaxial Growth of Hybrid Perovskites. Advanced Materials, 2018, 30, e1705992.	21.0	82

#	ARTICLE	IF	CITATIONS
19	Nonlinear Metasurface Based on Giant Optical Kerr Response of Gold Quantum Wells. ACS Photonics, 2018, 5, 1654-1659.	6.6	20
20	Broadband Photonic Spin Hall Meta-Lens. ACS Nano, 2018, 12, 82-88.	14.6	79
21	Nonlinear Optics: Enhanced Second Harmonic Generation in Double-Resonance Colloidal Metasurfaces (Adv. Funct. Mater. 51(2018)). Advanced Functional Materials, 2018, 28, 1870367.	14.9	0
22	Experimental Demonstration of Hyperbolic Metamaterial Assisted Illumination Nanoscopy. ACS Nano, 2018, 12, 11316-11322.	14.6	20
23	Enhanced Second Harmonic Generation in Double-Resonance Colloidal Metasurfaces. Advanced Functional Materials, 2018, 28, 1803019.	14.9	33
24	Efficient light generation from enhanced inelastic electron tunnelling. Nature Photonics, 2018, 12, 485-488.	31.4	100
25	Design and Analysis of Blue InGaN/GaN Plasmonic LED for High-Speed, High-Efficiency Optical Communications. ACS Photonics, 2018, 5, 3557-3564.	6.6	22
26	Realization of the spin-dependent manipulation of structured light by tailoring the polarization. , 2018, , .		0
27	Polarized light source based on graphene-nanoribbon hybrid structure. Optics Communications, 2017, 395, 76-81.	2.1	10
28	Second-harmonic susceptibility enhancement in Gallium nitride nanopillars. , 2017, , .		1
29	Investigation of the light generation from crystalline Ag-cubes based metal-insulator-metal tunnel junctions. , 2017, , .		2
30	Design of hybrid structure for fast and deep surface plasmon polariton modulation. Optics Express, 2016, 24, 17069.	3.4	7
31	Three-dimensional fluorescent microscopy via simultaneous illumination and detection at multiple planes. Scientific Reports, 2016, 6, 31445.	3.3	18
32	Giant Kerr response of ultrathin gold films from quantum size effect. Nature Communications, 2016, 7, 13153.	12.8	89
33	Quantum Electrostatic Model for Optical Properties of Nanoscale Gold Films. Nanophotonics, 2015, 4, 413-418.	6.0	19
34	Light emission enhancement by using patterned multilayer hyperbolic metamaterials. , 2015, , .		0
35	Electrical Tuning of Surface Plasmon Polariton Propagation in Graphene-Nanowire Hybrid Structure. ACS Nano, 2014, 8, 2584-2589.	14.6	49
36	Electrical modulation of surface plasmon polariton based on graphene-nanowire hybrid structure. , 2013, , .		1