

Sheng Liu

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

3,686
citations

394421

19
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

3348
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring Directional Scattering through Magnetic and Electric Resonances in Subwavelength Silicon Nanodisks. <i>ACS Nano</i> , 2013, 7, 7824-7832.	14.6	917
2	Polarization-Independent Silicon Metadevices for Efficient Optical Wavefront Control. <i>Nano Letters</i> , 2015, 15, 5369-5374.	9.1	344
3	Resonantly Enhanced Second-Harmonic Generation Using III-V Semiconductor All-Dielectric Metasurfaces. <i>Nano Letters</i> , 2016, 16, 5426-5432.	9.1	341
4	Ultrafast all-optical tuning of direct-gap semiconductor metasurfaces. <i>Nature Communications</i> , 2017, 8, 17.	12.8	300
5	Broken Symmetry Dielectric Resonators for High Quality Factor Fano Metasurfaces. <i>ACS Photonics</i> , 2016, 3, 2362-2367.	6.6	271
6	Efficient Polarization-Insensitive Complex Wavefront Control Using Huygens TM Metasurfaces Based on Dielectric Resonant Meta-atoms. <i>ACS Photonics</i> , 2016, 3, 514-519.	6.6	229
7	Enhanced Second-Harmonic Generation Using Broken Symmetry III-V Semiconductor Fano Metasurfaces. <i>ACS Photonics</i> , 2018, 5, 1685-1690.	6.6	204
8	Optical magnetic mirrors without metals. <i>Optica</i> , 2014, 1, 250.	9.3	188
9	An all-dielectric metasurface as a broadband optical frequency mixer. <i>Nature Communications</i> , 2018, 9, 2507.	12.8	173
10	Light-Emitting Metasurfaces: Simultaneous Control of Spontaneous Emission and Far-Field Radiation. <i>Nano Letters</i> , 2018, 18, 6906-6914.	9.1	126
11	Shaping Photoluminescence Spectra with Magnetoelectric Resonances in All-Dielectric Nanoparticles. <i>ACS Photonics</i> , 2015, 2, 172-177.	6.6	120
12	Phased-array sources based on nonlinear metamaterial nanocavities. <i>Nature Communications</i> , 2015, 6, 7667.	12.8	115
13	III-V Semiconductor Nanoresonators—A New Strategy for Passive, Active, and Nonlinear All-Dielectric Metamaterials. <i>Advanced Optical Materials</i> , 2016, 4, 1457-1462.	7.3	82
14	Polarization-Dependent Second Harmonic Diffraction from Resonant GaAs Metasurfaces. <i>ACS Photonics</i> , 2018, 5, 1786-1793.	6.6	74
15	Huygens TM Metasurfaces Enabled by Magnetic Dipole Resonance Tuning in Split Dielectric Nanoresonators. <i>Nano Letters</i> , 2017, 17, 4297-4303.	9.1	66
16	Frequency Conversion in a Time-Variant Dielectric Metasurface. <i>Nano Letters</i> , 2020, 20, 7052-7058.	9.1	45
17	All-optical tuning of symmetry protected quasi bound states in the continuum. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	36
18	Low-Power Absorption Saturation in Semiconductor Metasurfaces. <i>ACS Photonics</i> , 2019, 6, 2797-2806.	6.6	25

#	ARTICLE	IF	CITATIONS
19	Realization of tellurium-based all dielectric optical metamaterials using a multi-cycle deposition-etch process. Applied Physics Letters, 2013, 102, 161905.	3.3	19
20	Manipulation of quantum dot emission with semiconductor metasurfaces exhibiting magnetic quadrupole resonances. Optics Express, 2021, 29, 5567.	3.4	6
21	Dark-State-Based Low-Loss Metasurfaces with Simultaneous Electric and Magnetic Resonant Response. ACS Photonics, 2020, 7, 241-248.	6.6	3
22	Nonlinear and ultrafast effects. , 2020, , 223-248.		2
23	All-Dielectric Metasurfaces: Optical Nonlinearities and Emission Control. , 2019, , .		0