

Shumin Xiao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers

3,645
citations

33
h-index

56
g-index

121
ext. papers

4,849
ext. citations

9.9
avg, IF

5.93
L-index

#	Paper	IF	Citations
111	All-dielectric metasurface-enabled multiple vortex emissions.. <i>Advanced Materials</i> , 2022 , e2109255	24	9
110	Kerr Frequency Comb Interaction with Raman, Brillouin, and Second Order Nonlinear Effects. <i>Laser and Photonics Reviews</i> , 2022 , 16, 2100184	8.3	3
109	Dual-wavelength switchable single-mode lasing from a lanthanide-doped resonator.. <i>Nature Communications</i> , 2022 , 13, 1727	17.4	3
108	Integrated Janus dipole source for selective coupling to silicon waveguide networks. <i>Applied Physics Reviews</i> , 2022 , 9, 021410	17.3	1
107	Ultra-compact snapshot spectral light-field imaging.. <i>Nature Communications</i> , 2022 , 13, 2732	17.4	5
106	Optical metasurfaces towards multifunctionality and tunability. <i>Nanophotonics</i> , 2021 ,	6.3	4
105	Self-Cleaning Titanium Dioxide Metasurfaces with UV Irradiation. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000330	8.3	6
104	Highly Controllable Etchless Perovskite Microlasers Based on Bound States in the Continuum. <i>ACS Nano</i> , 2021 , 15, 7386-7391	16.7	12
103	Suppressing meta-holographic artifacts by laser coherence tuning. <i>Light: Science and Applications</i> , 2021 , 10, 104	16.7	8
102	Direct observation of chaotic resonances in optical microcavities. <i>Light: Science and Applications</i> , 2021 , 10, 135	16.7	4
101	Multiplexing Vectorial Holographic Images with Arbitrary Metaholograms. <i>Advanced Optical Materials</i> , 2021 , 9, 2100626	8.1	7
100	Micro- and Nanostructured Lead Halide Perovskites: From Materials to Integrations and Devices. <i>Advanced Materials</i> , 2021 , 33, e2000306	24	33
99	Arbitrary polarization conversion dichroism metasurfaces for all-in-one full Poincaré sphere polarizers. <i>Light: Science and Applications</i> , 2021 , 10, 24	16.7	50
98	Phase characterisation of metalenses. <i>Light: Science and Applications</i> , 2021 , 10, 52	16.7	11
97	Dynamic Structural Colors Based on All-Dielectric Mie Resonators. <i>Advanced Optical Materials</i> , 2021 , 9, 2002126	8.1	13
96	Dynamic Bifunctional Metasurfaces for Holography and Color Display. <i>Advanced Materials</i> , 2021 , 33, e2101258	17	17
95	Phyllotaxis-inspired nanosieves with multiplexed orbital angular momentum. <i>ELight</i> , 2021 , 1,		33

94	High-efficiency broadband achromatic metalens for near-IR biological imaging window. <i>Nature Communications</i> , 2021 , 12, 5560	17.4	22
93	Reprogrammable meta-hologram for optical encryption. <i>Nature Communications</i> , 2020 , 11, 5484	17.4	60
92	Spin Angular Momentum Controlled Multifunctional All-Dielectric Metasurface Doublet. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900324	8.3	14
91	Ultrafast control of vortex microlasers. <i>Science</i> , 2020 , 367, 1018-1021	33.3	210
90	Tunable optical metasurfaces enabled by multiple modulation mechanisms. <i>Nanophotonics</i> , 2020 , 9, 4407-4431	17.4	19
89	Ultrafast Control of Microlasers. <i>Optics and Photonics News</i> , 2020 , 31, 36	1.9	0
88	Trichromatic and Tripolarization-Channel Holography with Noninterleaved Dielectric Metasurface. <i>Nano Letters</i> , 2020 , 20, 994-1002	11.5	92
87	Stretchable All-Dielectric Metasurfaces with Polarization-Insensitive and Full-Spectrum Response. <i>ACS Nano</i> , 2020 , 14, 1418-1426	16.7	47
86	Lead halide perovskite vortex microlasers. <i>Nature Communications</i> , 2020 , 11, 4862	17.4	30
85	Achieving Circularly Polarized Surface Emitting Perovskite Microlasers with All-Dielectric Metasurfaces. <i>ACS Nano</i> , 2020 ,	16.7	11
84	Metasurface for Structured Light Projection over 120° Field of View. <i>Nano Letters</i> , 2020 , 20, 6719-6724	11.5	29
83	Broad-Band Photodetectors Based on Copper Indium Diselenide Quantum Dots in a Methylammonium Lead Iodide Perovskite Matrix. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35201-35210	9.5	10
82	Structured Semiconductor Interfaces: Active Functionality on Light Manipulation. <i>Proceedings of the IEEE</i> , 2020 , 108, 772-794	14.3	14
81	All-dielectric metasurface for high-performance structural color. <i>Nature Communications</i> , 2020 , 11, 1864	17.4	128
80	Lead Halide Perovskite-Based Dynamic Metasurfaces. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1900079	8.3	30
79	Resonance-enhanced three-photon luminescence via lead halide perovskite metasurfaces for optical encoding. <i>Nature Communications</i> , 2019 , 10, 2085	17.4	55
78	All-optical control of lead halide perovskite microlasers. <i>Nature Communications</i> , 2019 , 10, 1770	17.4	77
77	Optical Fiber Humidity Sensor Based on Water Absorption Peak Near 2- μ m Waveband. <i>IEEE Photonics Journal</i> , 2019 , 11, 1-8	1.8	12

76	Adiabatic and Ultracompact Waveguide Tapers Based on Digital Metamaterials. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-6	3.8	9
75	Fiber-Integrated Reversibly Wavelength-Tunable Nanowire Laser Based on Nanocavity Mode Coupling. <i>ACS Nano</i> , 2019 , 13, 9965-9972	16.7	7
74	Surface-Emitting Perovskite Random Lasers for Speckle-Free Imaging. <i>ACS Nano</i> , 2019 , 13, 10653-10661	16.7	49
73	Single-Crystalline Perovskite Microlasers for High-Contrast and Sub-Diffraction Imaging. <i>Advanced Functional Materials</i> , 2019 , 29, 1904868	15.6	10
72	TiO metasurfaces: From visible planar photonics to photochemistry. <i>Science Advances</i> , 2019 , 5, eaax0939	14.3	42
71	Dielectric multi-momentum meta-transformer in the visible. <i>Nature Communications</i> , 2019 , 10, 4789	17.4	50
70	Mass-Manufactural Lanthanide-Based Ultraviolet B Microlasers. <i>Advanced Materials</i> , 2019 , 31, e1807079	24	21
69	Highly Controllable Lasing Actions in Lead Halide Perovskite/Bi3N4 Hybrid Micro-Resonators. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800189	8.3	11
68	On-Chip-Integrated Methylammonium Halide Perovskite Optical Sensors. <i>Advanced Optical Materials</i> , 2019 , 7, 1801308	8.1	11
67	Complex Inverse Design of Meta-optics by Segmented Hierarchical Evolutionary Algorithm. <i>ACS Nano</i> , 2019 , 13, 821-829	16.7	24
66	Real-Time Tunable Colors from Microfluidic Reconfigurable All-Dielectric Metasurfaces. <i>ACS Nano</i> , 2018 , 12, 2151-2159	16.7	103
65	Formation of Lead Halide Perovskite Based Plasmonic Nanolasers and Nanolaser Arrays by Tailoring the Substrate. <i>ACS Nano</i> , 2018 , 12, 3865-3874	16.7	61
64	\$2-\mu\$ m Wavelength Grating Coupler, Bent Waveguide, and Tunable Microring on Silicon Photonic MPW. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 471-474	2.2	23
63	Lead Halide Perovskite Based Microdisk Lasers for On-Chip Integrated Photonic Circuits. <i>Advanced Optical Materials</i> , 2018 , 6, 1701266	8.1	36
62	On-Chip Spiral Waveguides for Ultrasensitive and Rapid Detection of Nanoscale Objects. <i>Advanced Materials</i> , 2018 , 30, e1800262	24	36
61	End-fire injection of light into high-Q silicon microdisks. <i>Optica</i> , 2018 , 5, 612	8.6	28
60	Sensors: On-Chip Spiral Waveguides for Ultrasensitive and Rapid Detection of Nanoscale Objects (Adv. Mater. 25/2018). <i>Advanced Materials</i> , 2018 , 30, 1870183	24	
59	Transmissive structural color filters using vertically coupled aluminum nanohole/nanodisk array with a triangular-lattice. <i>Nanotechnology</i> , 2018 , 29, 395202	3.4	17

58	Transporting the Optical Chirality through the Dynamical Barriers in Optical Microcavities. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800027	8.3	17
57	Lead Halide Perovskite Nanostructures for Dynamic Color Display. <i>ACS Nano</i> , 2018 , 12, 8847-8854	16.7	99
56	Chip-Scale Fabrication of Uniform Lead Halide Perovskites Microlaser Array and Photodetector Array. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1700234	8.3	48
55	All-Dielectric Meta-Reflectarray for Efficient Control of Visible Light. <i>Annalen Der Physik</i> , 2018 , 530, 1700418	24.8	13
54	Nonlinear Holographic All-Dielectric Metasurfaces. <i>Nano Letters</i> , 2018 , 18, 8054-8061	11.5	65
53	Dark-Field Sensors based on Organometallic Halide Perovskite Microlasers. <i>Advanced Materials</i> , 2018 , 30, e1801481	24	29
52	Recent Advances in Perovskite Micro- and Nanolasers. <i>Advanced Optical Materials</i> , 2018 , 6, 1800278	8.1	112
51	Lead Halide Perovskite Nanoribbon Based Uniform Nanolaser Array on Plasmonic Grating. <i>ACS Photonics</i> , 2017 , 4, 649-656	6.3	22
50	Highly Reproducible Organometallic Halide Perovskite Microdevices based on Top-Down Lithography. <i>Advanced Materials</i> , 2017 , 29, 1606205	24	100
49	Chip-Scale Mass Manufacturable High-Q Silicon Microdisks. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600299	6.8	9
48	Miscellaneous Lasing Actions in Organo-Lead Halide Perovskite Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20711-20718	9.5	15
47	All-Dielectric Full-Color Printing with TiO Metasurfaces. <i>ACS Nano</i> , 2017 , 11, 4445-4452	16.7	250
46	Rapid and Nondestructive Determination of Graphene Thickness with an all Dielectric Metasurface. <i>Plasmonics</i> , 2017 , 12, 1685-1691	2.4	1
45	Single Crystal Microrod Based Homonuclear Photonic Molecule Lasers. <i>Advanced Optical Materials</i> , 2017 , 5, 1600744	8.1	11
44	Maskless Fabrication of Aluminum Nanoparticles for Plasmonic Enhancement of Lead Halide Perovskite Lasers. <i>Advanced Optical Materials</i> , 2017 , 5, 1700529	8.1	14
43	Enhancing the Magnetic Resonance via Strong Coupling in Optical Metamaterials. <i>Advanced Optical Materials</i> , 2017 , 5, 1700469	8.1	11
42	Quasiparity-Time Symmetric Microdisk Laser. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700052	8.3	16
41	Tailoring the Performances of Lead Halide Perovskite Devices with Electron-Beam Irradiation. <i>Advanced Materials</i> , 2017 , 29, 1701636	24	48

40	Whispering-gallery-mode based CH ₃ NH ₃ PbBr ₃ perovskite microrod lasers with high quality factors. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 477-481	7.8	26
39	Far-field single nanoparticle detection and sizing. <i>Optica</i> , 2017 , 4, 1151	8.6	44
38	Improving the Performance of a CH ₃ NH ₃ PbBr ₃ Perovskite Microrod Laser through Hybridization with Few-Layered Graphene. <i>Advanced Optical Materials</i> , 2016 , 4, 2057-2062	8.1	17
37	Postsynthetic and Selective Control of Lead Halide Perovskite Microlasers. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3886-3891	6.4	30
36	Experimental demonstration of PT-symmetric stripe lasers. <i>Laser and Photonics Reviews</i> , 2016 , 10, 588-594	8.4	47
35	Transmission of IM/DD Signals at 2 Th Wavelength Using PAM and CAP. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-7	1.8	15
34	High-Density and Uniform Lead Halide Perovskite Nanolaser Array on Silicon. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2549-55	6.4	46
33	Random lasing actions in self-assembled perovskite nanoparticles. <i>Optical Engineering</i> , 2016 , 55, 057102-1	1.1	27
32	Fabricating high refractive index titanium dioxide film using electron beam evaporation for all-dielectric metasurfaces. <i>MRS Communications</i> , 2016 , 6, 77-83	2.7	10
31	Tailoring the lasing modes in CH ₃ NH ₃ PbBr ₃ perovskite microplates via micro-manipulation. <i>RSC Advances</i> , 2016 , 6, 50553-50558	3.7	8
30	Two-Photon Pumped CH ₃ NH ₃ PbBr ₃ Perovskite Microwire Lasers. <i>Advanced Optical Materials</i> , 2016 , 4, 472-479	8.1	122
29	Three-dimensional light confinement in a PT-symmetric nanocavity. <i>RSC Advances</i> , 2016 , 6, 5792-5796	3.7	5
28	Formation of single-mode laser in transverse plane of perovskite microwire via micromanipulation. <i>Optics Letters</i> , 2016 , 41, 555-8	3	44
27	Broadband and Tunable-Focus Flat Lens with Dielectric Metasurface. <i>Plasmonics</i> , 2016 , 11, 537-541	2.4	24
26	Triangular lasing modes in hexagonal perovskite microplates with balanced gain and loss. <i>RSC Advances</i> , 2016 , 6, 64589-64594	3.7	4
25	Design of Mid-Infrared Electro-Optic Modulators Based on Aluminum Nitride Waveguides. <i>Journal of Lightwave Technology</i> , 2016 , 1-1	4	10
24	A hybrid system with highly enhanced graphene SERS for rapid and tag-free tumor cells detection. <i>Scientific Reports</i> , 2016 , 6, 25134	4.9	37
23	Large-Scale and Defect-Free Silicon Metamaterials with Magnetic Response. <i>Scientific Reports</i> , 2016 , 6, 25760	4.9	9

22	Coupling the normal incident light into waveguide modes of DBR mirrors via a diffraction grating. <i>Scientific Reports</i> , 2016 , 6, 38964	4.9	2
21	Unidirectional Lasing Emissions from CH ₃ NH ₃ PbBr ₃ Perovskite Microdisks. <i>ACS Photonics</i> , 2016 , 3, 112561-112563	13	82
20	Hybridizing CH ₃ NH ₃ PbBr ₃ microwires and tapered fibers for efficient light collection. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8015-8019	13	14
19	The Role of Excitons on Light Amplification in Lead Halide Perovskites. <i>Advanced Materials</i> , 2016 , 28, 10165-10169	24	7
18	Photon hopping and nanowire based hybrid plasmonic waveguide and ring-resonator. <i>Scientific Reports</i> , 2015 , 5,	4.9	25
17	Quasi-guiding Modes in Microfibers on a High Refractive Index Substrate. <i>ACS Photonics</i> , 2015 , 2, 1278-1283	10.83	13
16	Improvement of the chirality near avoided resonance crossing in optical microcavity. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015 , 58, 1	3.6	5
15	Inversed Vernier effect based single-mode laser emission in coupled microdisks. <i>Scientific Reports</i> , 2015 , 5, 13682	4.9	23
14	End-fire injection of guided light into optical microcavity. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 120, 255-260	1.9	3
13	Deformed Microdisk-Based End-Fire Injection and Collection Resonant Device. <i>Journal of Lightwave Technology</i> , 2015 , 33, 3698-3703	4	6
12	Single Nanoparticle Detection Using Far-field Emission of Photonic Molecule around the Exceptional Point. <i>Scientific Reports</i> , 2015 , 5, 11912	4.9	27
11	Coherent destruction of tunneling in chaotic microcavities via three-state anti-crossings. <i>Scientific Reports</i> , 2014 , 4, 4858	4.9	11
10	The combination of high Q factor and chirality in twin cavities and microcavity chain. <i>Scientific Reports</i> , 2014 , 4, 6493	4.9	10
9	Manipulation of high-order scattering processes in ultrasmall optical resonators to control far-field emission. <i>Physical Review Letters</i> , 2014 , 112, 163902	7.4	5
8	Controlling multimode coupling by boundary-wave scattering. <i>Physical Review A</i> , 2013 , 88,	2.6	16
7	Coherent destruction of dynamical tunneling in asymmetric resonant cavities. <i>Physical Review A</i> , 2013 , 87,	2.6	9
6	Direct modulation of microcavity emission via local perturbation. <i>Physical Review A</i> , 2013 , 88,	2.6	8
5	Extreme output sensitivity to subwavelength boundary deformation in microcavities. <i>Physical Review A</i> , 2013 , 87,	2.6	28

4	Formation of long-lived resonances in hexagonal cavities by strong coupling of superscar modes. <i>Physical Review A</i> , 2013 , 88,	2.6	30
3	Channeling chaotic rays into waveguides for efficient collection of microcavity emission. <i>Physical Review Letters</i> , 2012 , 108, 243902	7.4	76
2	Random lasing in bone tissue. <i>Optics Letters</i> , 2010 , 35, 1425-7	3	123
1	Unidirectional high intensity narrow-linewidth lasing from a planar random microcavity laser. <i>Physical Review Letters</i> , 2006 , 96, 033902	7.4	49