

Kaiyang Wang

List of Publications by Year in descending order

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58
papers

2,124
citations

270111

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times ranked

3410
citing authors

#	ARTICLE	IF	CITATIONS
1	Overcoming the Limitation of Cs ₂ AgBiBr ₆ Double Perovskite Solar Cells Through Using Mesoporous TiO ₂ Electron Extraction Layer. <i>Energy and Environmental Materials</i> , 2022, 5, 1317-1322.	7.3	17
2	Micro- and Nanostructured Lead Halide Perovskites: From Materials to Integrations and Devices. <i>Advanced Materials</i> , 2021, 33, e2000306.	11.1	75
3	Deep surface passivation for efficient and hydrophobic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2919-2927.	5.2	74
4	Surface passivation of organometal halide perovskites by atomic layer deposition: an investigation of the mechanism of efficient inverted planar solar cells. <i>Nanoscale Advances</i> , 2021, 3, 2305-2315.	2.2	25
5	Phase Tailoring of Ruddlesden-Popper Perovskite at Fixed Large Spacer Cation Ratio. <i>Small</i> , 2021, 17, e2100560.	5.2	10
6	All-Inorganic Perovskite Nanorod Arrays with Spatially Randomly Distributed Lasing Modes for All-Photonic Cryptographic Primitives. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30891-30901.	4.0	6
7	Robust Ultralong Lead Halide Perovskite Microwire Lasers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38458-38466.	4.0	14
8	Suppressing the defects in cesium-based perovskites via polymeric interlayer assisted crystallization control. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26149-26158.	5.2	6
9	Size-Controlled Patterning of Single-Crystalline Perovskite Arrays toward a Tunable High-Performance Microlaser. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2662-2670.	4.0	24
10	Ultrashort laser pulse doubling by metal-halide perovskite multiple quantum wells. <i>Nature Communications</i> , 2020, 11, 3361.	5.8	57
11	Stable Whispering Gallery Mode Lasing from Solution-Processed Formamidinium Lead Bromide Perovskite Microdisks. <i>Advanced Optical Materials</i> , 2020, 8, 2000030.	3.6	32
12	Facile deposition of high-quality Cs ₂ AgBiBr ₆ films for efficient double perovskite solar cells. <i>Science China Materials</i> , 2020, 63, 1518-1525.	3.5	41
13	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr ₃ Nanoplatelets with Enhanced Stability and Charge Transport. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31863-31874.	4.0	37
14	Tailoring the Surface Morphology and Phase Distribution for Efficient Perovskite Electroluminescence. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5877-5882.	2.1	17
15	Controlling the film structure by regulating 2D Ruddlesden-Popper perovskite formation enthalpy for efficient and stable tri-cation perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5874-5881.	5.2	23
16	Light-induced phase transition and photochromism in all-inorganic two-dimensional Cs ₂ PbI ₂ Cl ₂ perovskite. <i>Science China Materials</i> , 2020, 63, 1510-1517.	3.5	14
17	Morphology Control of Doped Spiro-MeOTAD Films for Air Stable Perovskite Solar Cells. <i>Small</i> , 2020, 16, e1907513.	5.2	16
18	Single-Crystalline Perovskite Microlasers for High-Contrast and Sub-Diffraction Imaging. <i>Advanced Functional Materials</i> , 2019, 29, 1904868.	7.8	13

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19	All-optical control of lead halide perovskite microlasers. <i>Nature Communications</i> , 2019, 10, 1770.	5.8	104
20	Charge Carrier Dynamics and Broad Wavelength Tunable Amplified Spontaneous Emission in Zn _x Cd _{1-x} Se Nanowires. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7516-7522.	2.1	5
21	Formation of Lead Halide Perovskite Based Plasmonic Nanolasers and Nanolaser Arrays by Tailoring the Substrate. <i>ACS Nano</i> , 2018, 12, 3865-3874.	7.3	81
22	Dark-Field Sensors based on Organometallic Halide Perovskite Microlasers. <i>Advanced Materials</i> , 2018, 30, e1801481.	11.1	36
23	Recent Advances in Perovskite Micro- and Nanolasers. <i>Advanced Optical Materials</i> , 2018, 6, 1800278.	3.6	149
24	Lead Halide Perovskite Nanostructures for Dynamic Color Display. <i>ACS Nano</i> , 2018, 12, 8847-8854.	7.3	142
25	Lead Halide Perovskite Nanoribbon Based Uniform Nanolaser Array on Plasmonic Grating. <i>ACS Photonics</i> , 2017, 4, 649-656.	3.2	26
26	Highly Reproducible Organometallic Halide Perovskite Microdevices based on Top-Down Lithography. <i>Advanced Materials</i> , 2017, 29, 1606205.	11.1	138
27	Solution-Phase Synthesis of Cesium Lead Halide Perovskite Microrods for High-Quality Microlasers and Photodetectors. <i>Advanced Optical Materials</i> , 2017, 5, 1700023.	3.6	66
28	Room temperature three-photon pumped CH ₃ NH ₃ PbBr ₃ perovskite microlasers. <i>Scientific Reports</i> , 2017, 7, 45391.	1.6	48
29	Single Crystal Microrod Based Homonuclear Photonic Molecule Lasers. <i>Advanced Optical Materials</i> , 2017, 5, 1600744.	3.6	13
30	Maskless Fabrication of Aluminum Nanoparticles for Plasmonic Enhancement of Lead Halide Perovskite Lasers. <i>Advanced Optical Materials</i> , 2017, 5, 1700529.	3.6	18
31	Tailoring the Performances of Lead Halide Perovskite Devices with Electron-Beam Irradiation. <i>Advanced Materials</i> , 2017, 29, 1701636.	11.1	72
32	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.	3.2	39
33	Organic-inorganic Lead Halide Perovskite CH ₃ NH ₃ PbBr ₃ Nanolaser Array based on Silicon Grating. , 2017, , .		0
34	Triangular lasing modes in hexagonal perovskite microplates with balanced gain and loss. <i>RSC Advances</i> , 2016, 6, 64589-64594.	1.7	5
35	Large-Scale and Defect-Free Silicon Metamaterials with Magnetic Response. <i>Scientific Reports</i> , 2016, 6, 25760.	1.6	10
36	Unidirectional Lasing Emissions from CH ₃ NH ₃ PbBr ₃ Perovskite Microdisks. <i>ACS Photonics</i> , 2016, 3, 1125-1130.	3.2	106

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37	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.	5.2	18
38	The Role of Excitons on Light Amplification in Lead Halide Perovskites. <i>Advanced Materials</i> , 2016, 28, 10165-10169.	11.1	7
39	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.	3.6	20
40	Postsynthetic and Selective Control of Lead Halide Perovskite Microlasers. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3886-3891.	2.1	37
41	High-Density and Uniform Lead Halide Perovskite Nanolaser Array on Silicon. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2549-2555.	2.1	54
42	Random lasing actions in self-assembled perovskite nanoparticles. <i>Optical Engineering</i> , 2016, 55, 057102.	0.5	29
43	Fabricating high refractive index titanium dioxide film using electron beam evaporation for all-dielectric metasurfaces. <i>MRS Communications</i> , 2016, 6, 77-83.	0.8	13
44	Tailoring the lasing modes in CH ₃ NH ₃ PbBr ₃ perovskite microplates via micro-manipulation. <i>RSC Advances</i> , 2016, 6, 50553-50558.	1.7	11
45	Two-Photon Pumped CH ₃ NH ₃ PbBr ₃ Perovskite Microwire Lasers. <i>Advanced Optical Materials</i> , 2016, 4, 472-479.	3.6	134
46	Tunable perovskite microdisk lasers. <i>Nanoscale</i> , 2016, 8, 8717-8721.	2.8	32
47	Formation of single-mode laser in transverse plane of perovskite microwire via micromanipulation. <i>Optics Letters</i> , 2016, 41, 555.	1.7	52
48	Inversed Vernier effect based single-mode laser emission in coupled microdisks. <i>Scientific Reports</i> , 2015, 5, 13682.	1.6	25
49	End-fire injection of guided light into optical microcavity. <i>Applied Physics B: Lasers and Optics</i> , 2015, 120, 255-260.	1.1	5
50	Deformed Microdisk-Based End-Fire Injection and Collection Resonant Device. <i>Journal of Lightwave Technology</i> , 2015, 33, 3698-3703.	2.7	6
51	Electromagnetically induced-transparency-like spectrum in an add/drop interferometer. <i>Applied Optics</i> , 2015, 54, 1285.	0.9	5
52	Photon hopping and nanowire based hybrid plasmonic waveguide and ring-resonator. <i>Scientific Reports</i> , 2015, 5, .	1.6	27
53	Quasi-guiding Modes in Microfibers on a High Refractive Index Substrate. <i>ACS Photonics</i> , 2015, 2, 1278-1283.	3.2	16
54	Improvement of the chirality near avoided resonance crossing in optical microcavity. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015, 58, 1.	2.0	7

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55	Single Nanoparticle Detection Using Far-field Emission of Photonic Molecule around the Exceptional Point. Scientific Reports, 2015, 5, 11912.	1.6	35
56	The combination of high Q factor and chirality in twin cavities and microcavity chain. Scientific Reports, 2014, 4, 6493.	1.6	14
57	Tunable Fano resonance in a single-ring-resonator-based add/drop interferometer. Applied Optics, 2013, 52, 4884.	0.9	4
58	Nested fiber ring resonator enhanced Mach-Zehnder interferometer for temperature sensing. Applied Optics, 2012, 51, 8873.	0.9	14