

Yue Wang

List of Publications by Year in descending order

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papers

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94433

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times ranked

8408
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass production of self-passivated perovskite microlaser particles by solution-phase processing for gas sensors. <i>APL Photonics</i> , 2022, 7, 016103.	5.7	1
2	Constructing Urbach-Tail-Free and Low-Threshold Perovskite Heteronanowire Lasers toward All-Optical Switching. <i>ACS Photonics</i> , 2022, 9, 459-465.	6.6	6
3	Tailoring the Energy Manifold of Quasi-Two-Dimensional Perovskites for Efficient Carrier Extraction. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	15
4	Excited-state regulation in eco-friendly ZnSeTe-based quantum dots by cooling engineering. <i>Science China Materials</i> , 2022, 65, 1569-1576.	6.3	8
5	Coherent vibrational dynamics of NbO_2 film. <i>Physical Review Materials</i> , 2022, 6, .	6.3	8
6	Elucidating the Unique Hot Carrier Cooling in Two-Dimensional Inorganic Halide Perovskites: The Role of Out-of-Plane Carrier-Phonon Coupling. <i>Nano Letters</i> , 2022, 22, 2995-3002.	9.1	20
7	Perovskite photodetectors for flexible electronics: Recent advances and perspectives. <i>Applied Materials Today</i> , 2022, 28, 101509.	4.3	12
8	High-Quality Wave-Chaotic Microlasers from Deformed Halide Perovskite Cavities. <i>ACS Photonics</i> , 2022, 9, 2431-2437.	6.6	3
9	Deciphering the excited-state dynamics and multicarrier interactions in perovskite core-shell type hetero-nanocrystals. <i>Nanoscale</i> , 2021, 13, 292-299.	5.6	12
10	Polarization-Sensitive Halide Perovskites for Polarized Luminescence and Detection: Recent Advances and Perspectives. <i>Advanced Materials</i> , 2021, 33, e2003615.	21.0	89
11	In Situ and Reversible Enhancement of Photoluminescence from CsPbBr_3 Nanoplatelets by Electrical Bias. <i>Advanced Optical Materials</i> , 2021, 9, 2100346.	7.3	7
12	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	14.6	705
13	Hybrids of perovskite nanocrystals and SiO_2 microfiber for robust and long-haul transmittable fiber lasers. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	7
14	Optical-field induced $\text{SU}(2)$ pair potential in caesium lead halide perovskites. <i>International Journal of Modern Physics B</i> , 2021, 35, 2150030.	2.0	0
15	Deciphering Ultrafast Carrier Dynamics of Eco-Friendly ZnSeTe-Based Quantum Dots: Toward High-Quality Blue-Green Emitters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11931-11938.	4.6	13
16	Halide perovskite materials as light harvesters for solar energy conversion. <i>EnergyChem</i> , 2020, 2, 100026.	19.1	24
17	Highly stable and spectrum-selective ultraviolet photodetectors based on lead-free copper-based perovskites. <i>Materials Horizons</i> , 2020, 7, 530-540.	12.2	164
18	Perovskite quantum dot lasers. <i>Informa Mater</i> , 2020, 2, 170-183.	17.3	97

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19	Halide Perovskite Lateral Heterostructures for Energy Routing Based Photonic Applications. <i>Advanced Optical Materials</i> , 2020, 8, 2001347.	7.3	10
20	High-performance vertical field-effect transistors based on all-inorganic perovskite microplatelets. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12632-12637.	5.5	16
21	Harnessing Hot Phonon Bottleneck in Metal Halide Perovskite Nanocrystals via Interfacial Electron-Phonon Coupling. <i>Nano Letters</i> , 2020, 20, 4610-4617.	9.1	60
22	Spectral Dynamics and Multiphoton Absorption Properties of All-Inorganic Perovskite Nanorods. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4817-4825.	4.6	26
23	Robust Wavelength-Converting and Lasing Media from Wafer-Scale Inorganic Perovskites Enabled by a Protective Surface Layer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8341-8346.	3.1	4
24	Chirality-enabled unidirectional light emission and nanoparticle detection in parity-time-symmetric microcavity. <i>Physical Review A</i> , 2020, 101, .	2.5	4
25	Transferable High-Quality Inorganic Perovskites for Optoelectronic Devices by Weak Interaction Heteroepitaxy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19674-19681.	8.0	12
26	Perovskite Quantum Dots Based Lasing-Prospects and Challenges. <i>Springer Series in Materials Science</i> , 2020, , 279-335.	0.6	0
27	Unusual electric field-induced optical behaviors in cesium lead bromide perovskites. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	5
28	Lateral cavity enabled Fabry-Perot microlasers from all-inorganic perovskites. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	21
29	Microfibers Doped with Perovskite Nanocrystals for Ultralow-Loss Waveguides. <i>ACS Applied Nano Materials</i> , 2019, 2, 6585-6591.	5.0	4
30	CsPbBr ₃ Quantum Dots 2.0: Benzenesulfonic Acid Equivalent Ligand Awakens Complete Purification. <i>Advanced Materials</i> , 2019, 31, e1900767.	21.0	329
31	Microlasers Enabled by Soft-Matter Technology. <i>Advanced Optical Materials</i> , 2019, 7, 1900057.	7.3	29
32	Surface Halogen Compensation for Robust Performance Enhancements of CsPbX ₃ Perovskite Quantum Dots. <i>Advanced Optical Materials</i> , 2019, 7, 1900276.	7.3	138
33	Perovskite-Ion Beam Interactions: Toward Controllable Light Emission and Lasing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15756-15763.	8.0	38
34	Temperature Dependent Reflectance and Ellipsometry Studies on a CsPbBr ₃ Single Crystal. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10564-10570.	3.1	37
35	Dual phases of crystalline and electronic structures in the nanocrystalline perovskite CsPbBr ₃ . <i>NPG Asia Materials</i> , 2019, 11, .	7.9	41
36	Laser induced ion migration in all-inorganic mixed halide perovskite micro-platelets. <i>Nanoscale Advances</i> , 2019, 1, 4459-4465.	4.6	25

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37	Induced Optical Chirality and Circularly Polarized Emission from Achiral CdSe/ZnS Quantum Dots via Resonantly Coupling with Plasmonic Chiral Metasurfaces. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800276.	8.7	40
38	Color-Tunable ZnO/GaN Heterojunction LEDs Achieved by Coupling with Ag Nanowire Surface Plasmons. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15812-15819.	8.0	36
39	Tackling the hurdles of electrically pumped colloidal quantum dot lasers. <i>Science China Materials</i> , 2018, 61, 765-766.	6.3	1
40	All-Inorganic Metal Halide Perovskite Nanostructures: From Photophysics to Light-Emitting Applications. <i>Small Methods</i> , 2018, 2, 1700252.	8.6	83
41	Switching excitonic recombination and carrier trapping in cesium lead halide perovskites by air. <i>Communications Physics</i> , 2018, 1, .	5.3	59
42	Using the Negative Hyperconjugation Effect of Pentafluorosulfanyl Acceptors to Enhance Two-Photon Absorption in Push-Pull Chromophores. <i>Chemistry of Materials</i> , 2018, 30, 7055-7066.	6.7	39
43	Optical Ridge Waveguides in Magneto-Optical Glasses Fabricated by Combination of Silicon Ion Implantation and Femtosecond Laser Ablation. <i>IEEE Photonics Journal</i> , 2018, 10, 1-7.	2.0	8
44	Advances and prospects of lasers developed from colloidal semiconductor nanostructures. <i>Progress in Quantum Electronics</i> , 2018, 60, 1-29.	7.0	41
45	Nanocomposites of carbon nanotubes and photon upconversion nanoparticles for enhanced optical limiting performance. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7311-7316.	5.5	11
46	Constructing Fast Carrier Tracks into Flexible Perovskite Photodetectors To Greatly Improve Responsivity. <i>ACS Nano</i> , 2017, 11, 2015-2023.	14.6	274
47	Solution-Processed Low Threshold Vertical Cavity Surface Emitting Lasers from All-Inorganic Perovskite Nanocrystals. <i>Advanced Functional Materials</i> , 2017, 27, 1605088.	14.9	242
48	π-Conjugated Discrete Oligomers Containing Planar and Nonplanar Aromatic Motifs. <i>Journal of the American Chemical Society</i> , 2017, 139, 3089-3094.	13.7	63
49	All-organic luminescent nanodots from corannulene and cyclodextrin nano-assembly: continuous-flow synthesis, non-linear optical properties, and bio-imaging applications. <i>Materials Chemistry Frontiers</i> , 2017, 1, 831-837.	5.9	15
50	Ultralarge All-Inorganic Perovskite Bulk Single Crystal for High-Performance Visible-Infrared Dual-Modal Photodetectors. <i>Advanced Optical Materials</i> , 2017, 5, 1700157.	7.3	244
51	Enhancing circular dichroism by super chiral hot spots from a chiral metasurface with apexes. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	22
52	Robust Whispering-Gallery-Mode Microbubble Lasers from Colloidal Quantum Dots. <i>Nano Letters</i> , 2017, 17, 2640-2646.	9.1	83
53	Solution-Grown CsPbBr ₃ /Cs ₄ PbBr ₆ Perovskite Nanocomposites: Toward Temperature-Insensitive Optical Gain. <i>Small</i> , 2017, 13, 1701587.	10.0	134
54	Amino-Mediated Anchoring Perovskite Quantum Dots for Stable and Low-Threshold Random Lasing. <i>Advanced Materials</i> , 2017, 29, 1701185.	21.0	269

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55	Self-trapped exciton emission from carbon dots investigated by polarization anisotropy of photoluminescence and photoexcitation. <i>Nanoscale</i> , 2017, 9, 12637-12646.	5.6	49
56	Iodide capped PbS/CdS core-shell quantum dots for efficient long-wavelength near-infrared light-emitting diodes. <i>Scientific Reports</i> , 2017, 7, 14741.	3.3	32
57	Wavelength tuning of the spirally drawn whispering gallery mode microfiber lasers and the perspectives for sensing applications. <i>Optics Express</i> , 2017, 25, 2618.	3.4	10
58	Green Stimulated Emission Boosted by Nonradiative Resonant Energy Transfer from Blue Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2772-2778.	4.6	12
59	Multicolor Amplified Spontaneous Emissions Based on Organic Polymorphs That Undergo Excited-State Intramolecular Proton Transfer. <i>Chemistry - A European Journal</i> , 2016, 22, 4899-4903.	3.3	47
60	Reconfigurable Liquid Whispering Gallery Mode Microlasers. <i>Scientific Reports</i> , 2016, 6, 27200.	3.3	29
61	An organic dye with very large Stokes-shift and broad tunability of fluorescence: Potential two-photon probe for bioimaging and ultra-sensitive solid-state gas sensor. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	31
62	Photon Driven Transformation of Cesium Lead Halide Perovskites from Few-Monolayer Nanoplatelets to Bulk Phase. <i>Advanced Materials</i> , 2016, 28, 10637-10643.	21.0	130
63	Unusual Fluorescent Properties of Stilbene Units and CdZnS/ZnS Quantum Dots Nanocomposites: White-Light Emission in Solution versus Light-Harvesting in Films. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 24-31.	2.2	2
64	Tuning liquid whispering gallery mode microlasers by surface tension. , 2016, , .		0
65	Biocompatible Two-Photon Absorbing Dipyridyldiketopyrrolopyrroles for Metal-Ion-Mediated Self-Assembly Modulation and Fluorescence Imaging. <i>Advanced Optical Materials</i> , 2016, 4, 746-755.	7.3	26
66	A Novel Chiral Metasurface with Controllable Circular Dichroism Induced by Coupling Localized and Propagating Modes. <i>Advanced Optical Materials</i> , 2016, 4, 883-888.	7.3	53
67	Nonlinear Absorption and Low-Threshold Multiphoton Pumped Stimulated Emission from All-Inorganic Perovskite Nanocrystals. <i>Nano Letters</i> , 2016, 16, 448-453.	9.1	494
68	Multicolor lasing prints. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	47
69	Unraveling the ultralow threshold stimulated emission from CdZnS/ZnS quantum dot and enabling high-Q microlasers. <i>Laser and Photonics Reviews</i> , 2015, 9, 507-516.	8.7	44
70	Advances and Prospects for Whispering Gallery Mode Microcavities. <i>Advanced Optical Materials</i> , 2015, 3, 1136-1162.	7.3	258
71	All-Inorganic Colloidal Perovskite Quantum Dots: A New Class of Lasing Materials with Favorable Characteristics. <i>Advanced Materials</i> , 2015, 27, 7101-7108.	21.0	1,095
72	Second harmonic generation from the 'centrosymmetric' crystals. <i>IUCr</i> , 2015, 2, 317-321.	2.2	42

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73	Quaternary Alloy Quantum Dots: Toward Low-Threshold Stimulated Emission and All-Solution-Processed Lasers in the Green Region. <i>Advanced Optical Materials</i> , 2015, 3, 652-657.	7.3	35
74	Synthesis, structure, physical properties and OLED application of pyrazine-triphenylamine fused conjugated compounds. <i>RSC Advances</i> , 2015, 5, 63080-63086.	3.6	33
75	Stable and Low-Threshold Optical Gain in CdSe/CdS Quantum Dots: An All-Colloidal Frequency Up-Converted Laser. <i>Advanced Materials</i> , 2015, 27, 2741-2746.	21.0	92
76	Effect of Zn(O,S) buffer layer thickness on charge carrier relaxation dynamics of CuInSe ₂ solar cell. <i>Solar Energy</i> , 2015, 115, 396-404.	6.1	18
77	Manipulating Optical Properties of ZnO/Ga:ZnO Core-Shell Nanorods Via Spatially Tailoring Electronic Bandgap. <i>Advanced Optical Materials</i> , 2015, 3, 1066-1071.	7.3	5
78	Nitrogen and phosphorus co-doped graphene quantum dots: synthesis from adenosine triphosphate, optical properties, and cellular imaging. <i>Nanoscale</i> , 2015, 7, 8159-8165.	5.6	174
79	Observation of polarized gain from aligned colloidal nanorods. <i>Nanoscale</i> , 2015, 7, 6481-6486.	5.6	24
80	Blue Liquid Lasers from Solution of CdZnS/ZnS Ternary Alloy Quantum Dots with Quasi-Continuous Pumping. <i>Advanced Materials</i> , 2015, 27, 169-175.	21.0	127
81	Anisotropic stimulated emission from aligned CdSe/CdS dot-in-rods. , 2014, , .		0
82	Photophysical investigation of charge recombination in CdS/ZnO layers of CuIn(S,Se) ₂ solar cell. <i>RSC Advances</i> , 2014, 4, 58372-58376.	3.6	5
83	Efficient Energy Transfer under Two-Photon Excitation in a 3D, Supramolecular, Zn(II)-Coordinated, Self-Assembled Organic Network. <i>Advanced Optical Materials</i> , 2014, 2, 40-47.	7.3	29
84	Stimulated Emission and Lasing from CdSe/CdS/ZnS Core-Multi-Shell Quantum Dots by Simultaneous Three-Photon Absorption. <i>Advanced Materials</i> , 2014, 26, 2954-2961.	21.0	172
85	Broadband Saturable Absorption of Graphene Oxide Thin Film and Its Application in Pulsed Fiber Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 441-447.	2.9	42
86	Fluorescent quantum dots derived from PEDOT and their applications in optical imaging and sensing. <i>Materials Horizons</i> , 2014, 1, 529-534.	12.2	30
87	Multiphoton Harvesting in an Angular Carbazole-Containing Zn(II)-Coordinated Random Copolymer Mediated by Twisted Intramolecular Charge Transfer State. <i>Macromolecules</i> , 2014, 47, 1316-1324.	4.8	20
88	Nonlinear Optics: Efficient Energy Transfer under Two-Photon Excitation in a 3D, Supramolecular, Zn(II)-Coordinated, Self-Assembled Organic Network (Advanced Optical Materials 1/2014). <i>Advanced Optical Materials</i> , 2014, 2, 39-39.	7.3	2
89	Near resonant and nonresonant third-order optical nonlinearities of colloidal InP/ZnS quantum dots. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	48
90	Micro-LED pumped polymer laser: A discussion of future pump sources for organic lasers. <i>Laser and Photonics Reviews</i> , 2013, 7, 1065-1078.	8.7	59

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91	Nanoimprinted Organic Semiconductor Laser Pumped by a Light-Emitting Diode. <i>Advanced Materials</i> , 2013, 25, 2826-2830.	21.0	92
92	Wavelength dependence of optical nonlinearity of terpyridine-based Zn(II)-coordinated rigid linear polymers. <i>Applied Physics Letters</i> , 2012, 101, 213302.	3.3	17