

# Yue Wang

## List of Publications by Citations

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86

papers

4,968

citations

31

h-index

70

g-index

93

ext. papers

5,990

ext. citations

9.3

avg, IF

5.95

L-index

#	Paper	IF	Citations
86	All-Inorganic Colloidal Perovskite Quantum Dots: A New Class of Lasing Materials with Favorable Characteristics. <i>Advanced Materials</i> , <b>2015</b> , 27, 7101-8	24	919
85	Nonlinear Absorption and Low-Threshold Multiphoton Pumped Stimulated Emission from All-Inorganic Perovskite Nanocrystals. <i>Nano Letters</i> , <b>2016</b> , 16, 448-53	11.5	409
84	Constructing Fast Carrier Tracks into Flexible Perovskite Photodetectors To Greatly Improve Responsivity. <i>ACS Nano</i> , <b>2017</b> , 11, 2015-2023	16.7	222
83	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , <b>2021</b> , 15, 10775-10981	16.7	222
82	Amino-Mediated Anchoring Perovskite Quantum Dots for Stable and Low-Threshold Random Lasing. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701185	24	215
81	CsPbBr Quantum Dots 2.0: Benzenesulfonic Acid Equivalent Ligand Awakens Complete Purification. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900767	24	189
80	Advances and Prospects for Whispering Gallery Mode Microcavities. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 1136-1162	8.1	187
79	Solution-Processed Low Threshold Vertical Cavity Surface Emitting Lasers from All-Inorganic Perovskite Nanocrystals. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605088	15.6	184
78	Ultralarge All-Inorganic Perovskite Bulk Single Crystal for High-Performance Visible/Infrared Dual-Modal Photodetectors. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700157	8.1	182
77	Nitrogen and phosphorus co-doped graphene quantum dots: synthesis from adenosine triphosphate, optical properties, and cellular imaging. <i>Nanoscale</i> , <b>2015</b> , 7, 8159-65	7.7	149
76	Stimulated emission and lasing from CdSe/CdS/ZnS core-multi-shell quantum dots by simultaneous three-photon absorption. <i>Advanced Materials</i> , <b>2014</b> , 26, 2954-61	24	141
75	Solution-Grown CsPbBr <sub>3</sub> /Cs <sub>2</sub> PbBr <sub>4</sub> Perovskite Nanocomposites: Toward Temperature-Insensitive Optical Gain. <i>Small</i> , <b>2017</b> , 13, 1701587	11	110
74	Blue liquid lasers from solution of CdZnS/ZnS ternary alloy quantum dots with quasi-continuous pumping. <i>Advanced Materials</i> , <b>2015</b> , 27, 169-75	24	104
73	Photon Driven Transformation of Cesium Lead Halide Perovskites from Few-Monolayer Nanoplatelets to Bulk Phase. <i>Advanced Materials</i> , <b>2016</b> , 28, 10637-10643	24	100
72	Highly stable and spectrum-selective ultraviolet photodetectors based on lead-free copper-based perovskites. <i>Materials Horizons</i> , <b>2020</b> , 7, 530-540	14.4	99
71	Surface Halogen Compensation for Robust Performance Enhancements of CsPbX <sub>3</sub> Perovskite Quantum Dots. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900276	8.1	83
70	Nanoimprinted organic semiconductor laser pumped by a light-emitting diode. <i>Advanced Materials</i> , <b>2013</b> , 25, 2826-30	24	81

69	Stable and Low-Threshold Optical Gain in CdSe/CdS Quantum Dots: An All-Colloidal Frequency Up-Converted Laser. <i>Advanced Materials</i> , <b>2015</b> , 27, 2741-6	24	77
68	All-Inorganic Metal Halide Perovskite Nanostructures: From Photophysics to Light-Emitting Applications. <i>Small Methods</i> , <b>2018</b> , 2, 1700252	12.8	66
67	Robust Whispering-Gallery-Mode Microbubble Lasers from Colloidal Quantum Dots. <i>Nano Letters</i> , <b>2017</b> , 17, 2640-2646	11.5	60
66	Perovskite quantum dot lasers. <i>Information Materials</i> , <b>2020</b> , 2, 170-183	23.1	52
65	Micro-LED pumped polymer laser: A discussion of future pump sources for organic lasers. <i>Laser and Photonics Reviews</i> , <b>2013</b> , 7, 1065-1078	8.3	47
64	Conjugated Discrete Oligomers Containing Planar and Nonplanar Aromatic Motifs. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3089-3094	16.4	44
63	Switching excitonic recombination and carrier trapping in cesium lead halide perovskites by air. <i>Communications Physics</i> , <b>2018</b> , 1,	5.4	43
62	Near resonant and nonresonant third-order optical nonlinearities of colloidal InP/ZnS quantum dots. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 021917	3.4	41
61	Multicolor lasing prints. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 221103	3.4	40
60	Unraveling the ultralow threshold stimulated emission from CdZnS/ZnS quantum dot and enabling high-Q microlasers. <i>Laser and Photonics Reviews</i> , <b>2015</b> , 9, 507-516	8.3	39
59	A Novel Chiral Metasurface with Controllable Circular Dichroism Induced by Coupling Localized and Propagating Modes. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 883-888	8.1	35
58	Polarization-Sensitive Halide Perovskites for Polarized Luminescence and Detection: Recent Advances and Perspectives. <i>Advanced Materials</i> , <b>2021</b> , 33, e2003615	24	34
57	Second harmonic generation from the Centrosymmetric Crystals. <i>IUCrJ</i> , <b>2015</b> , 2, 317-21	4.7	33
56	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2014</b> , 20, 441-447	3.8	32
55	Multicolor Amplified Spontaneous Emissions Based on Organic Polymorphs That Undergo Excited-State Intramolecular Proton Transfer. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 4899-903	4.8	30
54	Synthesis, structure, physical properties and OLED application of pyrazine- $\pi$ -phenylamine fused conjugated compounds. <i>RSC Advances</i> , <b>2015</b> , 5, 63080-63086	3.7	29
53	Self-trapped exciton emission from carbon dots investigated by polarization anisotropy of photoluminescence and photoexcitation. <i>Nanoscale</i> , <b>2017</b> , 9, 12637-12646	7.7	29
52	Quaternary Alloy Quantum Dots: Toward Low-Threshold Stimulated Emission and All-Solution-Processed Lasers in the Green Region. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 652-657	8.1	29

51	Advances and prospects of lasers developed from colloidal semiconductor nanostructures. <i>Progress in Quantum Electronics</i> , <b>2018</b> , 60, 1-29	9.1	28
50	Efficient Energy Transfer under Two-Photon Excitation in a 3D, Supramolecular, Zn(II)-Coordinated, Self-Assembled Organic Network. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 40-47	8.1	28
49	Color-Tunable ZnO/GaN Heterojunction LEDs Achieved by Coupling with Ag Nanowire Surface Plasmons. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 15812-15819	9.5	26
48	Fluorescent quantum dots derived from PEDOT and their applications in optical imaging and sensing. <i>Materials Horizons</i> , <b>2014</b> , 1, 529-534	14.4	26
47	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> , <b>2016</b> , 108, 011901	3.4	26
46	Perovskite-Ion Beam Interactions: Toward Controllable Light Emission and Lasing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 15756-15763	9.5	25
45	Reconfigurable Liquid Whispering Gallery Mode Microlasers. <i>Scientific Reports</i> , <b>2016</b> , 6, 27200	4.9	25
44	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> , <b>2019</b> , 13, 1800276	8.3	25
43	Observation of polarized gain from aligned colloidal nanorods. <i>Nanoscale</i> , <b>2015</b> , 7, 6481-6	7.7	24
42	Harnessing Hot Phonon Bottleneck in Metal Halide Perovskite Nanocrystals via Interfacial Electron-Phonon Coupling. <i>Nano Letters</i> , <b>2020</b> , 20, 4610-4617	11.5	24
41	Temperature Dependent Reflectance and Ellipsometry Studies on a CsPbBr <sub>3</sub> Single Crystal. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 10564-10570	3.8	23
40	Biocompatible Two-Photon Absorbing Dipyridyldiketopyrrolopyrroles for Metal-Ion-Mediated Self-Assembly Modulation and Fluorescence Imaging. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 746-755	8.1	23
39	Iodide capped PbS/CdS core-shell quantum dots for efficient long-wavelength near-infrared light-emitting diodes. <i>Scientific Reports</i> , <b>2017</b> , 7, 14741	4.9	22
38	Multiphoton Harvesting in an Angular Carbazole-Containing Zn(II)-Coordinated Random Copolymer Mediated by Twisted Intramolecular Charge Transfer State. <i>Macromolecules</i> , <b>2014</b> , 47, 1316-1324	5.5	20
37	Dual phases of crystalline and electronic structures in the nanocrystalline perovskite CsPbBr <sub>3</sub> . <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	20
36	Using the Negative Hyperconjugation Effect of Pentafluorosulfanyl Acceptors to Enhance Two-Photon Absorption in PushPull Chromophores. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7055-7066	9.6	20
35	Microlasers Enabled by Soft-Matter Technology. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900057	8.1	19
34	Laser induced ion migration in all-inorganic mixed halide perovskite micro-platelets. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 4459-4465	5.1	17

33	Effect of Zn(O,S) buffer layer thickness on charge carrier relaxation dynamics of CuInSe <sub>2</sub> solar cell. <i>Solar Energy</i> , <b>2015</b> , 115, 396-404	6.8	16
32	Wavelength dependence of optical nonlinearity of terpyridine-based Zn(II)-coordinated rigid linear polymers. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 213302	3.4	16
31	Enhancing circular dichroism by super chiral hot spots from a chiral metasurface with apexes. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 221108	3.4	15
30	Spectral Dynamics and Multiphoton Absorption Properties of All-Inorganic Perovskite Nanorods. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 4817-4825	6.4	15
29	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> , <b>2017</b> , 1, 831-837	7.8	14
28	Halide perovskite materials as light harvesters for solar energy conversion. <i>EnergyChem</i> , <b>2020</b> , 2, 100026	6.9	11
27	Green Stimulated Emission Boosted by Nonradiative Resonant Energy Transfer from Blue Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 2772-8	6.4	11
26	Lateral cavity enabled Fabry-Perot microlasers from all-inorganic perovskites. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 111103	3.4	10
25	High-performance vertical field-effect transistors based on all-inorganic perovskite microplatelets. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 12632-12637	7.1	10
24	Wavelength tuning of the spirally drawn whispering gallery mode microfiber lasers and the perspectives for sensing applications. <i>Optics Express</i> , <b>2017</b> , 25, 2618-2626	3.3	8
23	Transferable High-Quality Inorganic Perovskites for Optoelectronic Devices by Weak Interaction Heteroepitaxy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 19674-19681	9.5	6
22	Nanocomposites of carbon nanotubes and photon upconversion nanoparticles for enhanced optical limiting performance. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 7311-7316	7.1	6
21	Optical Ridge Waveguides in Magneto-Optical Glasses Fabricated by Combination of Silicon Ion Implantation and Femtosecond Laser Ablation. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-7	1.8	6
20	Manipulating Optical Properties of ZnO/Ga:ZnO Core-Shell Nanorods Via Spatially Tailoring Electronic Bandgap. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 1066-1071	8.1	5
19	Unusual electric field-induced optical behaviors in cesium lead bromide perovskites. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 201101	3.4	4
18	Halide Perovskite Lateral Heterostructures for Energy Routing Based Photonic Applications. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2001347	8.1	4
17	Chirality-enabled unidirectional light emission and nanoparticle detection in parity-time-symmetric microcavity. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	3
16	Photophysical investigation of charge recombination in CdS/ZnO layers of CuIn(S,Se) <sub>2</sub> solar cell. <i>RSC Advances</i> , <b>2014</b> , 4, 58372-58376	3.7	3

15	Deciphering the excited-state dynamics and multicarrier interactions in perovskite core-shell type hetero-nanocrystals. <i>Nanoscale</i> , <b>2021</b> , 13, 292-299	7.7	3
14	Robust Wavelength-Converting and Lasing Media from Wafer-Scale Inorganic Perovskites Enabled by a Protective Surface Layer. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 8341-8346	3.8	2
13	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> , <b>2014</b> , 2, 39-39	8.1	2
12	Tailoring the Energy Manifold of Quasi-Two-Dimensional Perovskites for Efficient Carrier Extraction. <i>Advanced Energy Materials</i> , 2103556	21.8	2
11	In-Situ and Reversible Enhancement of Photoluminescence from CsPbBr <sub>3</sub> Nanoplatelets by Electrical Bias. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100346	8.1	2
10	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> , <b>2016</b> , 217, 24-31	2.6	2
9	Hybrids of perovskite nanocrystals and SiO <sub>2</sub> microfiber for robust and long-haul transmittable fiber lasers. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 051102	3.4	2
8	Microfibers Doped with Perovskite Nanocrystals for Ultralow-Loss Waveguides. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 6585-6591	5.6	1
7	Tackling the hurdles of electrically pumped colloidal quantum dot lasers. <i>Science China Materials</i> , <b>2018</b> , 61, 765-766	7.1	1
6	Excited-state regulation in eco-friendly ZnSeTe-based quantum dots by cooling engineering. <i>Science China Materials</i> , 1	7.1	1
5	Deciphering Ultrafast Carrier Dynamics of Eco-Friendly ZnSeTe-Based Quantum Dots: Toward High-Quality Blue-Green Emitters. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 11931-11938	6.4	1
4	Perovskite photodetectors for flexible electronics: Recent advances and perspectives. <i>Applied Materials Today</i> , <b>2022</b> , 28, 101509	6.6	1
3	Mass production of self-passivated perovskite microlaser particles by solution-phase processing for gas sensors. <i>APL Photonics</i> , <b>2022</b> , 7, 016103	5.2	
2	Optical-field induced SU(2) pair potential in caesium lead halide perovskites. <i>International Journal of Modern Physics B</i> , <b>2021</b> , 35, 2150030	1.1	
1	Perovskite Quantum Dots Based Lasing-Prospects and Challenges. <i>Springer Series in Materials Science</i> , <b>2020</b> , 279-335	0.9	