Qing Liao

List of Publications by Year
in descending order

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102	5,618	94433 37	82547 72
papers	citations	h-index	g-index

107	107	107	6501
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ecoâ€Compatible Solventâ€Processed Organic Photovoltaic Cells with Over 16% Efficiency. Advanced Materials, 2019, 31, e1903441.	21.0	445
2	Perovskite Microdisk Microlasers Selfâ€Assembled from Solution. Advanced Materials, 2015, 27, 3405-3410.	21.0	352
3	Embedding Perovskite Nanocrystals into a Polymer Matrix for Tunable Luminescence Probes in Cell Imaging. Advanced Functional Materials, 2017, 27, 1604382.	14.9	328
4	Organicâ€“Inorganic Hybrid Perovskite Nanowire Laser Arrays. ACS Nano, 2017, 11, 5766-5773.	14.6	244
5	Polymorphismâ€Dependent Emission for Di(pâ€methoxylphenyl)dibenzofulvene and Analogues: Optical Waveguide/Amplified Spontaneous Emission Behaviors. Advanced Functional Materials, 2012, 22, 4862-4872.	14.9	220
6	2D Ruddlesdenâ€“Popper Perovskites Microring Laser Array. Advanced Materials, 2018, 30, e1706186.	21.0	190
7	Patterning Multicolored Microdisk Laser Arrays of Cesium Lead Halide Perovskite. Advanced Materials, 2017, 29, 1604510.	21.0	182
8	Organic Phosphorescence Nanowire Lasers. Journal of the American Chemical Society, 2017, 139, 6376-6381.	13.7	166
9	Tuning the Hybridization of Local Exciton and Chargeâ€Transfer States in Highly Efficient Organic Photovoltaic Cells. Angewandte Chemie - International Edition, 2020, 59, 9004-9010.	13.8	144
10	Near-Infrared Lasing from Small-Molecule Organic Hemispheres. Journal of the American Chemical Society, 2015, 137, 9289-9295.	13.7	133
11	Amplified Spontaneous Emission Based on 2D Ruddlesdenâ€“Popper Perovskites. Advanced Functional Materials, 2018, 28, 1707006.	14.9	129
12	Whisperingâ€Galleryâ€Mode Microlaser Based on Selfâ€Assembled Organic Singleâ€Crystalline Hexagonal Microdisks. Angewandte Chemie - International Edition, 2014, 53, 5863-5867.	13.8	126
13	Tailoring and Modifying an Organic Electron Acceptor toward the Cathode Interlayer for Highly Efficient Organic Solar Cells. Advanced Materials, 2020, 32, e1906557.	21.0	109
14	Regulation of Thermally Activated Delayed Fluorescence to Roomâ€Temperature Phosphorescent Emission Channels by Controlling the Excitedâ€States Dynamics via Jâ€and Hâ€Aggregation. Angewandte Chemie - International Edition, 2021, 60, 18059-18064.	13.8	109
15	Phase- and Shape-Controlled Synthesis of Single Crystalline Perylene Nanosheets and Its Optical Properties. Journal of Physical Chemistry C, 2009, 113, 10038-10043.	3.1	107
16	Lowâ€Threshold Nanolasers Based on Slabâ€Nanocrystals of Hâ€Aggregated Organic Semiconductors. Advanced Materials, 2012, 24, OP216-20.	21.0	106
17	Compositionâ€Graded Cesium Lead Halide Perovskite Nanowires with Tunable Dualâ€Color Lasing Performance. Advanced Materials, 2018, 30, e1800596.	21.0	99
18	Organic Laser Molecule with High Mobility, High Photoluminescence Quantum Yield, and Deep-Blue Lasing Characteristics. Journal of the American Chemical Society, 2020, 142, 6332-6339.	13.7	90

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19	Self-Assembled Microdisk Lasers of Perylenediimides. Journal of the American Chemical Society, 2015, 137, 15105-15111.	13.7	88
20	Organic field-effect optical waveguides. Nature Communications, 2018, 9, 4790.	12.8	85
21	Shape-Engineering of Self-Assembled Organic Single Microcrystal as Optical Microresonator for laser Applications. Scientific Reports, 2014, 4, 7011.	3.3	81
22	A Twoâ€Dimensional Ruddlesdenâ€“Popper Perovskite Nanowire Laser Array based on Ultrafast Lightâ€Harvesting Quantum Wells. Angewandte Chemie - International Edition, 2018, 57, 7748-7752.	13.8	72
23	Highly Sensitive and Easily Recoverable Excitonic Piezochromic Fluorescent Materials for Haptic Sensors and Antiâ€Counterfeiting Applications. Advanced Functional Materials, 2020, 30, 2000105.	14.9	70
24	Rational design of small indolic squaraine dyes with large two-photon absorption cross section. Chemical Science, 2015, 6, 761-769.	7.4	69
25	Latticeâ€Matched Epitaxial Growth of Organic Heterostructures for Integrated Optoelectronic Application. Angewandte Chemie - International Edition, 2017, 56, 3616-3620.	13.8	68
26	Ir(ppy)₃phosphorescent microrods and nanowires: promising micro-phosphors. Journal of Materials Chemistry, 2009, 19, 89-96.	6.7	61
27	Colorimetric Signal Amplification Assay for Mercury Ions Based on the Catalysis of Gold Amalgam. Analytical Chemistry, 2015, 87, 10963-10968.	6.5	57
28	Water-miscible organic J-aggregate nanoparticles as efficient two-photon fluorescent nano-probes for bio-imaging. Journal of Materials Chemistry, 2012, 22, 17737.	6.7	53
29	A New PEDOT Derivative for Efficient Organic Solar Cell with a Fill Factor of 0.80. Advanced Energy Materials, 2022, 12, .	19.5	52
30	Cooperative Assembly of Binary Molecular Components into Tubular Structures for Multiple Photonic Applications. Angewandte Chemie - International Edition, 2011, 50, 4942-4946.	13.8	48
31	Tunable Halide Perovskites for Miniaturized Solidâ€State Laser Applications. Advanced Optical Materials, 2019, 7, 1900099.	7.3	47
32	Cluster-Mediated Nucleation and Growth of J- and H-Type Polymorphs of Difluoroboron Avobenzone for Organic Microribbon Lasers. ACS Nano, 2018, 12, 5359-5367.	14.6	45
33	Exciton-Polaritons with Size-Tunable Coupling Strengths in Self-Assembled Organic Microresonators. ACS Photonics, 2014, 1, 413-420.	6.6	43
34	Oriented Growth of Ultrathin Single Crystals of 2D Ruddlesdenâ€“Popper Hybrid Lead Iodide Perovskites for High-Performance Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 15905-15912.	8.0	43
35	Wavelength-Turnable Organic Microring Laser Arrays from Thermally Activated Delayed Fluorescent Emitters. ACS Photonics, 2019, 6, 3208-3214.	6.6	42
36	Highly Stable Organic Solar Cells Based on an Ultraviolet-Resistant Cathode Interfacial Layer. CCS Chemistry, 2022, 4, 938-948.	7.8	42

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37	Excitation-Wavelength-Dependent Organic Long-Persistent Luminescence Originating from Excited-State Long-Range Proton Transfer. Journal of the American Chemical Society, 2022, 144, 12652-12660.	13.7	40
38	An organic nanowire waveguide excitonâ€“polariton sub-microlaser and its photonic application. Journal of Materials Chemistry C, 2014, 2, 2773-2778.	5.5	38
39	Tuning the organic microcrystal laser wavelength of ESIPT-active compounds via controlling the excited enol* and keto* emissions. Journal of Materials Chemistry C, 2017, 5, 12235-12240.	5.5	38
40	Nontrivial band geometry in an optically active system. Nature Communications, 2021, 12, 689.	12.8	38
41	Experimental Measurement of the Divergent Quantum Metric of an Exceptional Point. Physical Review Letters, 2021, 127, 107402.	7.8	36
42	High Optical Gain of Solutionâ€Processed Mixedâ€Cation CsPbBr₃ Thin Films towards Enhanced Amplified Spontaneous Emission. Advanced Functional Materials, 2021, 31, 2102210.	14.9	35
43	An Organic Microlaser Array Based on a Lateral Microcavity of a Single Jâ€aggregation Microbelt. Angewandte Chemie - International Edition, 2015, 54, 7037-7041.	13.8	34
44	Excitedâ€State Modulation for Controlling Fluorescence and Phosphorescence Pathways toward Whiteâ€Light Emission. Advanced Optical Materials, 2019, 7, 1900767.	7.3	34
45	Cocrystallization Tailoring Multiple Radiative Decay Pathways for Amplified Spontaneous Emission. Angewandte Chemie - International Edition, 2021, 60, 281-289.	13.8	33
46	Benzoindolic squaraine dyes with a large two-photon absorption cross-section. Journal of Materials Chemistry C, 2017, 5, 1224-1230.	5.5	30
47	Colorâ€and Dimensionâ€Tunable Lightâ€Harvesting Organic Chargeâ€Transfer Alloys for Controllable Photonâ€Transport Photonics. Angewandte Chemie - International Edition, 2021, 60, 3037-3046.	13.8	30
48	p-Doped Conducting Polyelectrolyte as an Anode Interlayer Enables High Efficiency for 1 cm² Printed Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 20205-20213.	8.0	28
49	Tunable Triplet-Mediated Multicolor Lasing from Nondoped Organic TADF Microcrystals. Nano Letters, 2021, 21, 3287-3294.	9.1	28
50	Self-assembly of twisted tetrachloroperylenediimide chromophores into two dimensional brick-stone aggregates: exciton dynamics and photoconductivity. Chemical Communications, 2012, 48, 6402.	4.1	27
51	Perylene crystals: tuning optoelectronic properties by dimensional-controlled synthesis. Journal of Materials Chemistry C, 2014, 2, 9695-9700.	5.5	27
52	Highly emissive near-infrared solid organic fluorophores for visualization of latent fingerprints based on the powder dusting method. Journal of Materials Chemistry C, 2021, 9, 7345-7350.	5.5	25
53	A Twoâ€Dimensional Ruddlesdenâ€“Popper Perovskite Nanowire Laser Array based on Ultrafast Lightâ€Harvesting Quantum Wells. Angewandte Chemie, 2018, 130, 7874-7878.	2.0	24
54	Intracellular near-Infrared Microlaser Probes Based on Organic Microsphereâ€“SiO₂ Coreâ€“Shell Structures for Cell Tagging and Tracking. ACS Applied Materials & Interfaces, 2018, 10, 32981-32987.	8.0	24

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55	The effect of 1D- and 2D-polymorphs on organic single-crystal optoelectronic devices: lasers and field effect transistors. Journal of Materials Chemistry C, 2018, 6, 7994-8002.	5.5	24
56	Tuning the Hybridization of Local Exciton and Chargeâ€Transfer States in Highly Efficient Organic Photovoltaic Cells. Angewandte Chemie, 2020, 132, 9089-9095.	2.0	24
57	Latticeâ€Matched Epitaxial Growth of Organic Heterostructures for Integrated Optoelectronic Application. Angewandte Chemie, 2017, 129, 3670-3674.	2.0	23
58	Breaking Kashaâ€™s Rule as a Mechanism for Solution-Phase Room-Temperature Phosphorescence from High-Lying Triplet Excited State. Journal of Physical Chemistry Letters, 2020, 11, 8246-8251.	4.6	23
59	High Mobility Organic Lasing Semiconductor with Crystallizationâ€Enhanced Emission for Lightâ€Emitting Transistors. Angewandte Chemie - International Edition, 2021, 60, 20274-20279.	13.8	23
60	Efficient Bosonic Condensation of Exciton Polaritons in an H-Aggregate Organic Single-Crystal Microcavity. Nano Letters, 2020, 20, 7550-7557.	9.1	23
61	Modification of the Green Fluorescent Protein Chromophore with Large Aromatic Moieties: Photophysical Study and Solidâ€State Emission. Asian Journal of Organic Chemistry, 2012, 1, 352-358.	2.7	22
62	Significant Effect of Fluorination on Simultaneously Improving Work Function and Transparency of Anode Interlayer for Organic Solar Cells. Advanced Energy Materials, 2019, 9, 1803826.	19.5	21
63	Full-color tunable organic nanoparticles with FRET-assisted enhanced two-photon excited fluorescence for bio-imaging. Journal of Materials Chemistry B, 2013, 1, 6035.	5.8	20
64	Controlled Substitution of Chlorine for Iodine in Single-Crystal Nanofibers of Mixed Perovskite MAPbI₃₋_xCl_x. Small, 2016, 12, 3780-3787.	10.0	20
65	Quantum metric and wave packets at exceptional points in non-Hermitian systems. Physical Review B, 2021, 103, .	3.2	20
66	Lasing from an Organic Microâ€Helix. Angewandte Chemie - International Edition, 2020, 59, 11080-11086.	13.8	19
67	Fluorescent chemo-sensors based on â€œdually smartâ€•optical micro/nano-waveguides lithographically fabricated with AIE composite resins. Materials Horizons, 2020, 7, 1782-1789.	12.2	19
68	Design of thermally activated delayed fluorescent emitters for organic solid-state microlasers. Journal of Materials Chemistry C, 2021, 9, 7400-7406.	5.5	18
69	Polymorphâ€Dependent Green, Yellow, and Red Emissions of Organic Crystals for Laser Applications. Chemistry - an Asian Journal, 2017, 12, 2985-2990.	3.3	16
70	Organic nanoparticles with ultrahigh stimulated emission depletion efficiency for low-power STED nanoscopy. Nanoscale, 2019, 11, 12990-12996.	5.6	16
71	Whispering Gallery Mode Laser Based on a Selfâ€Assembled Organic Octahedron Microcrystal Microresonator. Advanced Optical Materials, 2014, 2, 1160-1166.	7.3	15
72	Organic Nanoparticles-Assisted Low-Power STED Nanoscopy. Nano Letters, 2021, 21, 3487-3494.	9.1	15

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73	Regulation of Thermally Activated Delayed Fluorescence to Roomâ€Temperature Phosphorescent Emission Channels by Controlling the Excitedâ€States Dynamics via Jâ€•and Hâ€Aggregation. Angewandte Chemie, 2021, 133, 18207-18212.	2.0	15
74	High-Performance Organic Laser Semiconductor Enabling Efficient Light-Emitting Transistors and Low-Threshold Microcavity Lasers. Nano Letters, 2022, 22, 5803-5809.	9.1	15
75	Highly stable Agâ€“Au nanoplates and nanoframes for two-photon luminescence. RSC Advances, 2014, 4, 35263.	3.6	14
76	Soft Lithography to Fabricate 3D Patterning Organic Microrings towards Highâ€Performance Nearâ€Infrared Laser Arrays. Advanced Optical Materials, 2018, 6, 1800219.	7.3	14
77	Modulation of Amplified Spontaneous Emissions between Singlet Fluorescence and Triplet Phosphorescence Channels in Organic Dye Lasers. Laser and Photonics Reviews, 2019, 13, 1900036.	8.7	14
78	Inorganic Molecular Clusters with Facile Preparation and Neutral pH for Efficient Hole Extraction in Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 39462-39470.	8.0	14
79	Remotely Photocontrolled Microrobots based on Photomechanical Molecular Crystals. ACS Applied Materials & Interfaces, 2020, 12, 27493-27498.	8.0	14
80	Colorimetric detection of lysozyme based on its effect on the growth of gold nanoparticles induced by the reaction of chloroauric acid and hydroxylamine. Mikrochimica Acta, 2016, 183, 3135-3141.	5.0	10
81	High performance single-crystalline organic field-effect transistors based on molecular-modified dibenzo[a,e]pentalenes derivatives. New Journal of Chemistry, 2020, 44, 17552-17557.	2.8	10
82	Realization of Excitonâ€Mediated Optical Spinâ€Orbit Interaction in Organic Microcrystalline Resonators. Laser and Photonics Reviews, 2022, 16, .	8.7	10
83	tert-Butyl-substituted bicarbazole as a bipolar host material for efficient green and yellow PhOLEDs. New Journal of Chemistry, 2020, 44, 10472-10478.	2.8	9
84	Control of molecular packing toward a lateral microresonator for microlaser array. Journal of Materials Chemistry C, 2020, 8, 8531-8537.	5.5	9
85	Tunable two-photon pumped lasing from alloyed semiconductor nanoribbons. Journal of Materials Chemistry, 2011, 21, 4837.	6.7	8
86	Solutionâ€Processed Largeâ€Scale Concentricâ€Ring Laser on Twoâ€Dimensional Ruddlesdenâ€“Popper Perovskites Thin Films. Advanced Optical Materials, 2021, 9, 2100193.	7.3	8
87	Low threshold photonic crystal lasing from a dye with high emission quantum yield and weak self-quenching. Journal of Materials Chemistry C, 2013, 1, 6157.	5.5	7
88	Luminescence emission-modulated based on specific two-photon compound of triazole-conjugated pyrene derivative. RSC Advances, 2017, 7, 19002-19006.	3.6	7
89	Cocrystallization Tailoring Multiple Radiative Decay Pathways for Amplified Spontaneous Emission. Angewandte Chemie, 2021, 133, 285-293.	2.0	7
90	Cocrystallization tailoring radiative decay pathways for thermally activated delayed fluorescence and room-temperature phosphorescence emission. Nanoscale, 2022, 14, 6305-6311.	5.6	7

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91	Multicolor Biexciton Lasers Based on 2D Perovskite Single Crystalline Flakes. Advanced Optical Materials, 2022, 10, .	7.3	7
92	Lasing from an Organic Microâ€Helix. Angewandte Chemie, 2020, 132, 11173-11179.	2.0	6
93	J-aggregation enhanced thermally activated delayed fluorescence for amplified spontaneous emission. Cell Reports Physical Science, 2022, 3, 100686.	5.6	6
94	Surface-enhanced Raman scattering and DFT computational studies of a benzotriazole derivative. Journal of Molecular Structure, 2008, 888, 2-6.	3.6	5
95	Electrically Switchable Amplified Spontaneous Emission from Lead Halide Perovskite Film. ACS Omega, 2021, 6, 34021-34026.	3.5	4
96	Selfâ€Erase Forceâ€Induced Turnâ€On Organic ASE Output Cryptographic Primitive for Advanced Multiple Information Encryption. Laser and Photonics Reviews, 2022, 16, .	8.7	4
97	An Organic Microlaser Array Based on a Lateral Microcavity of a Single Jâ€aggregation Microbelt. Angewandte Chemie, 2015, 127, 7143-7147.	2.0	2
98	Excitedâ€Stateâ€Modulated Dualâ€Wavelength Singleâ€Mode Lasing from a Singleâ€Component Organic Microbelt. Advanced Optical Materials, 0, , 2200270.	7.3	2
99	Inside Cover: Cooperative Assembly of Binary Molecular Components into Tubular Structures for Multiple Photonic Applications (Angew. Chem. Int. Ed. 21/2011). Angewandte Chemie - International Edition, 2011, 50, 4716-4716.	13.8	1
100	Molecular engineering of excited-state process for multicolor microcrystalline lasers. Journal of Materials Chemistry C, 2022, 10, 4166-4172.	5.5	1
101	Innentitelbild: Cooperative Assembly of Binary Molecular Components into Tubular Structures for Multiple Photonic Applications (Angew. Chem. 21/2011). Angewandte Chemie, 2011, 123, 4812-4812.	2.0	0
102	Photodetectors: Controlled Substitution of Chlorine for Iodine in Single-Crystal Nanofibers of Mixed Perovskite MAPbI₃₋_xCl_x(Small 28/2016). Small, 2016, 12, 3880-3880.	10.0	0