Ruibin Liu

List of Publications by Year in Descending Order

98 papers	3,915 citations	23 h-index	61 g-index
108 ext. papers	4,868 ext. citations	6 avg, IF	5.51 L-index

#	Paper	IF	Citations
98	Determination of detonation characteristics by laser-induced plasma spectra and micro-explosion dynamics.. *Optics Express*, **2022**, 30, 4718-4736	3.3	2
97	In situ preparation of Mn-doped perovskite nanocrystalline films and application to white light emitting devices. *Journal of Colloid and Interface Science*, **2022**, 606, 1163-1169	9.3	4
96	Effects of Electron-Phonon Coupling and Spin-Spin Coupling on the Photoluminescence of Low-Dimensional Metal Halides.. *Journal of Physical Chemistry Letters*, **2022**, 1752-1764	6.4	6
95	Three-primary-color molecular cocrystals showing white-light luminescence, tunable optical waveguide and ultrahigh polarized emission. *Science China Chemistry*, **2022**, 65, 408-417	7.9	2
94	Toward High-Performance Self-Driven Photodetectors via Multistacking Van der Waals Heterostructures. *ACS Applied Materials & Interfaces*, **2021**, 13, 56438-56445	9.5	2
93	Highly Efficient Cool-White Photoluminescence of (Gua)CuI Single Crystals: Formation and Optical Properties. *ACS Applied Materials & Interfaces*, **2021**, 13, 13443-13451	9.5	20
92	Rapid determination of all element in MAPbI3 thin films using laser induced breakdown spectroscopy. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2021**, 178, 106123	3.1	3
91	New Type of Thermoelectric CdSSe Nanowire Chip. *ACS Applied Materials & Interfaces*, **2021**, 13, 30959-30966	9.5	1
90	Water-Stable Zero-Dimensional (CH)NCuCl Single Crystal with Highly Efficient Broadband Green Emission. *Journal of Physical Chemistry Letters*, **2021**, 12, 6639-6647	6.4	21
89	Bulk assembly of a 0D organic antimony chloride hybrid with highly efficient orange dual emission by self-trapped states. *Journal of Materials Chemistry C*, **2021**, 9, 12184-12190	7.1	5
88	Photoluminescence and Boosting Electron-Phonon Coupling in CdS Nanowires with Variable Sn(IV) Dopant Concentration. *Nanoscale Research Letters*, **2021**, 16, 19	5	0
87	Dielectric polarization effect and transient relaxation in FAPbBr films before and after PMMA passivation. *Physical Chemistry Chemical Physics*, **2021**, 23, 10153-10163	3.6	2
86	Bulk Assembly of Zero-Dimensional Organic Copper Bromide Hybrid with Bright Self-Trapped Exciton Emission and High Antiwater Stability. *Journal of Physical Chemistry C*, **2021**, 125, 20014-20021	3.8	9
85	Large-scale facile-synthesis and bistable emissions of one-dimensional organic–inorganic C4H14N2PbBr4 metal halide crystals with bipolaronic states. *New Journal of Chemistry*, **2021**, 45, 17247–17257	3.6	5
84	Optical and Optoelectronic Performances of Quasi-Rectangular Cross-Sectional Sn-Doped CdS Nanowires. *Journal of Physical Chemistry C*, **2021**, 125, 2546-2553	3.8	1
83	A Polarization-Sensitive Self-Powered Photodetector Based on a p-WSe/TaIrTe/n-MoS van der Waals Heterojunction.. *ACS Applied Materials & Interfaces*, **2021**, 13, 61544-61554	9.5	8
82	Interlayer of PMMA Doped with Au Nanoparticles for High-Performance Tandem Photodetectors: A Solution to Suppress Dark Current and Maintain High Photocurrent. *ACS Applied Materials & Interfaces*, **2020**, 12, 26153-26160	9.5	19

81	Antiferromagnetic Magnetic Polaron Formation and Optical Properties of CVD-Grown Mn-Doped Zinc Stannate (ZTO). *ACS Applied Electronic Materials*, **2020**, 2, 1679-1688	4	6
80	Solution-Processed, Self-Powered Broadband CH3NH3PbI3 Photodetectors Driven by Asymmetric Electrodes. *Advanced Optical Materials*, **2020**, 8, 2000215	8.1	19
79	Evolution of the structure and properties of mechanochemically synthesized pyrrolidine incorporated manganese bromide powders. *Journal of Materials Chemistry C*, **2020**, 8, 6488-6495	7.1	21
78	Magnetic quantification of single-crystalline Fe and Co nanowires via off-axis electron holography. *Journal of Chemical Physics*, **2020**, 152, 114202	3.9	1
77	The high-accuracy prediction of carbon content in semi-coke by laser-induced breakdown spectroscopy. *Journal of Analytical Atomic Spectrometry*, **2020**, 35, 984-992	3.7	4
76	Multipoint Nanolaser Array in an Individual Core–Shell CdS Branched Nanostructure. *Advanced Optical Materials*, **2020**, 8, 1901644	8.1	5
75	Highly Stable Red Quantum Dot Light-Emitting Diodes with Long Operation Lifetimes. *Journal of Physical Chemistry Letters*, **2020**, 11, 3111-3115	6.4	25
74	Mg-Doped ZnO Nanoparticle Films as the Interlayer between the ZnO Electron Transport Layer and InP Quantum Dot Layer for Light-Emitting Diodes. *Journal of Physical Chemistry C*, **2020**, 124, 8758-8765	3.8	15
73	Polarization-Sensitive Self-Powered Type-II GeSe/MoS van der Waals Heterojunction Photodetector. *ACS Applied Materials & Interfaces*, **2020**, 12, 15406-15413	9.5	61
72	Dynamics of chiral state transitions and relaxations in an FeGe thin plate via in situ Lorentz microscopy. *Nanoscale*, **2020**, 12, 14919-14925	7.7	2
71	Highly Efficient Blue Emission from Self-Trapped Excitons in Stable Sb-Doped CsNaInCl Double Perovskites. *Journal of Physical Chemistry Letters*, **2020**, 11, 2053-2061	6.4	117
70	Near-Unity Red Mn Photoluminescence Quantum Yield of Doped CsPbCl Nanocrystals with Cd Incorporation. *Journal of Physical Chemistry Letters*, **2020**, 11, 2142-2149	6.4	44
69	Vector Exceptional Points with Strong Superchiral Fields. *Physical Review Letters*, **2020**, 124, 083901	7.4	15
68	First principles calculations of optoelectronic and magnetic properties of Co-doped and (Co, Al) co-doped ZnO. *Journal of Applied Physics*, **2020**, 127, 065707	2.5	1
67	Red, Green, and Blue Microcavity Quantum Dot Light-Emitting Devices with Narrow Line Widths. *ACS Applied Nano Materials*, **2020**, 3, 5301-5310	5.6	7
66	Fragile topologically protected perfect reflection for acoustic waves. *Physical Review Research*, **2020**, 2,	3.9	2
65	Stable blue-emissive aluminum acetylacetonate nanocrystals with high quantum yield of over 80% and embedded in polymer matrix for remote UV-pumped white light-emitting diodes. *Nanophotonics*, **2020**, 9, 1509-1518	6.3	1
64	Comparative Studies on Two-Dimensional (2D) Rectangular and Hexagonal Molybdenum Dioxide Nanosheets with Different Thickness. *Nanoscale Research Letters*, **2020**, 15, 156	5	0

63	High enhancement factor in low-power unipolar discharge arc assisted laser induced plasma spectroscopy. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2020**, 174, 105996	3.1	4
62	Bosonic Lasing of Collective Exciton Magnetic Polarons in CuCl2-Doped CdS Nanoribbons: Implications for Quantum Light Sources. *ACS Applied Nano Materials*, **2020**, 3, 5019-5032	5.6	7
61	Vertically Stacked MoSe2/MoO2 Nanolayered Photodetectors with Tunable Photoresponses. *ACS Applied Nano Materials*, **2020**, 3, 7543-7553	5.6	9
60	Surface Engineering of All-Inorganic Perovskite Quantum Dots with Quasi Core‐Shell Technique for High-Performance Photodetectors. *Advanced Materials Interfaces*, **2020**, 7, 2000360	4.6	16
59	Gaining Insight into the Underlayer Treatment for in Situ Fabrication of Efficient Perovskite Nanocrystal-Based Light-Emitting Diodes. *Journal of Physical Chemistry C*, **2019**, 123, 17353-17359	3.8	7
58	Ultralow-Threshold and Color-Tunable Continuous-Wave Lasing at Room-Temperature from In Situ Fabricated Perovskite Quantum Dots. *Journal of Physical Chemistry Letters*, **2019**, 10, 3248-3253	6.4	50
57	Tin-doped comb-like CdS microstructure and construction of the micro-sliding rheostat. *Materials Letters*, **2019**, 249, 41-44	3.3	
56	Tunable Emission Properties of Manganese Chloride Small Single Crystals by Pyridine Incorporation. *ACS Omega*, **2019**, 4, 8039-8045	3.9	24
55	CdSSe nanowire-chip based wearable sweat sensor. *Journal of Nanobiotechnology*, **2019**, 17, 42	9.4	11
54	In-Plane Anisotropic Raman Response and Electrical Conductivity with Robust Electron-Photon and Electron-Phonon Interactions of Air Stable MoO Nanosheets. *Journal of Physical Chemistry Letters*, **2019**, 10, 2182-2190	6.4	15
53	Transport tuning of photonic topological edge states by optical cavities. *Physical Review A*, **2019**, 99,	2.6	14
52	Lithium ion detection in liquid with low detection limit by laser-induced breakdown spectroscopy. *Applied Optics*, **2019**, 58, 422-427	1.7	7
51	Dual-Color Lasing Lines from EMPs in Diluted Magnetic Semiconductor CdS:NiI Structure. *Research*, **2019**, 2019, 6956937	7.8	10
50	To enhance the performance of all-inorganic perovskite photodetectors via constructing both bilayer heterostructure and bipolar carrier transporting channels. *Journal of Materials Chemistry C*, **2019**, 7, 14938-14948	7.1	9
49	Magnetic coupling in 3D-hierarchical MnO2 microsphere. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 2802-2808	2.1	4
48	Position-Sensitive Array Photodetector Based on Comb-Like CdS Nanostructure with Cone-Shape Branches. *Advanced Functional Materials*, **2019**, 29, 1805967	15.6	9
47	Spin-induced magnetic anisotropy in novel Co-doped GaN nanoneedles and their related photoluminescence. *New Journal of Chemistry*, **2018**, 42, 8338-8341	3.6	3
46	Centimeter-Sized Cs4PbBr6 Crystals with Embedded CsPbBr3 Nanocrystals Showing Superior Photoluminescence: Nonstoichiometry Induced Transformation and Light-Emitting Applications. *Advanced Functional Materials*, **2018**, 28, 1706567	15.6	205

45	PEDOT:PSS Modification by blending graphene oxide to improve the efficiency of organic solar cells. *Polymer Composites*, **2018**, 39, 3066-3072	3	7
44	Accuracy enhancement of laser induced breakdown spectroscopy by safely low-power discharge. *Optics Express*, **2018**, 26, 13973-13984	3.3	8
43	Influence of the Post-Synthesis Annealing on Device Performance of PbS Quantum Dot Photoconductive Detectors. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1800408	1.6	2
42	Surface polarons and optical micro-cavity modulated broad range multi-mode emission of Te-doped CdS nanowires. *Nanotechnology*, **2018**, 29, 465709	3.4	10
41	Tin Nanoparticles□Enhanced Optical Transportation in Branched CdS Nanowire Waveguides. *Advanced Optical Materials*, **2018**, 6, 1800305	8.1	12
40	Colloidal Synthesis of CH3NH3PbBr3 Nanoplatelets with Polarized Emission through Self-Organization. *Angewandte Chemie*, **2017**, 129, 1806-1809	3.6	14
39	Colloidal Synthesis of CH NH PbBr Nanoplatelets with Polarized Emission through Self-Organization. *Angewandte Chemie - International Edition*, **2017**, 56, 1780-1783	16.4	79
38	Two-dimensional hexagonal symmetry diffraction pattern by SiO2 photonic structures fabricated by hot embossing. *Functional Materials Letters*, **2017**, 10, 1750031	1.2	
37	Strong Polarized Photoluminescence from Stretched Perovskite-Nanocrystal-Embedded Polymer Composite Films. *Advanced Optical Materials*, **2017**, 5, 1700594	8.1	48
36	Accuracy enhancement of laser induced breakdown spectra using permittivity and size optimized plasma confinement rings. *Optics Express*, **2017**, 25, 27559-27569	3.3	15
35	Spin-Related Micro-Photoluminescence in Fe3+ Doped ZnSe Nanoribbons. *Applied Sciences (Switzerland)*, **2017**, 7, 39	2.6	9
34	In Situ Fabrication of Halide Perovskite Nanocrystal-Embedded Polymer Composite Films with Enhanced Photoluminescence for Display Backlights. *Advanced Materials*, **2016**, 28, 9163-9168	24	490
33	High performance solution-processed infrared photodiode based on ternary PbSxSe1□ colloidal quantum dots. *RSC Advances*, **2016**, 6, 87730-87737	3.7	23
32	Transmission comb of a distributed Bragg reflector with two surface dielectric gratings. *Scientific Reports*, **2016**, 6, 21125	4.9	3
31	The polarization modulation and fabrication method of two dimensional silica photonic crystals based on UV nanoimprint lithography and hot imprint. *Scientific Reports*, **2016**, 6, 34495	4.9	9
30	Dynamics of single photon transport in a one-dimensional waveguide two-point coupled with a Jaynes-Cummings system. *Scientific Reports*, **2016**, 6, 33867	4.9	18
29	Hydroxyl-Terminated CuInS2 Based Quantum Dots: Toward Efficient and Bright Light Emitting Diodes. *Chemistry of Materials*, **2016**, 28, 1085-1091	9.6	126
28	Reduction of lasing threshold by protecting gas and the structure dependent visual lasing mode of various CdS microstructures. *Optics Express*, **2016**, 24, 26857-26866	3.3	4

27	Curvature effects in two-dimensional optical devices inspired by transformation optics. *Applied Physics Letters*, **2016**, 109, 201105	3.4	1
26	Charge Carrier Conduction Mechanism in PbS Quantum Dot Solar Cells: Electrochemical Impedance Spectroscopy Study. *ACS Applied Materials & Interfaces*, **2016**, 8, 18526-33	9.5	47
25	High performance solution-processed infrared photodetector based on PbSe quantum dots doped with low carrier mobility polymer poly(N-vinylcarbazole). *RSC Advances*, **2016**, 6, 44514-44521	3.7	25
24	Fabrication and micro-photoluminescence property of CdSe/CdS core/shell nanowires. *Applied Physics A: Materials Science and Processing*, **2015**, 119, 343-349	2.6	10
23	Brightly Luminescent and Color-Tunable Colloidal CH3NH3PbX3 (X = Br, I, Cl) Quantum Dots: Potential Alternatives for Display Technology. *ACS Nano*, **2015**, 9, 4533-42	16.7	1602
22	Performance Enhancement of FET-Based Photodetector by Blending P3HT With PMMA. *IEEE Photonics Technology Letters*, **2015**, 27, 1535-1538	2.2	12
21	Aggregation-Induced Emission Features of Organometal Halide Perovskites and Their Fluorescence Probe Applications. *Advanced Optical Materials*, **2015**, 3, 112-119	8.1	64
20	Enhancement of the power conversion efficiency of polymer solar cells by incorporating PbSe quantum dots. *Journal of Materials Science*, **2015**, 50, 840-847	4.3	8
19	Oleylamine-Assisted Phase-Selective Synthesis of Cu2□S Nanocrystals and the Mechanism of Phase Control. *Particle and Particle Systems Characterization*, **2015**, 32, 907-914	3.1	37
18	Pentacene-Based Photodetector in Visible Region With Vertical Field-Effect Transistor Configuration. *IEEE Photonics Technology Letters*, **2015**, 27, 233-236	2.2	26
17	Solution-Processed PbSe Colloidal Quantum Dot-Based Near-Infrared Photodetector. *IEEE Photonics Technology Letters*, **2015**, 27, 612-615	2.2	32
16	Solution-processed P3HT-based photodetector with field-effect transistor configuration. *Applied Physics A: Materials Science and Processing*, **2014**, 116, 1511-1516	2.6	18
15	Enhancement of the power conversion efficiency of polymer solar cells by functionalized single-walled carbon nanotubes decorated with CdSe/ZnS core□shell colloidal quantum dots. *Journal of Materials Science*, **2014**, 49, 2571-2577	4.3	9
14	Visual monitoring of laser power and spot profile in micron region by a single chip of Zn-doped CdS nanobelts. *RSC Advances*, **2014**, 4, 52550-52554	3.7	8
13	Experimental Observation of Giant Chiroptical Amplification of Small Chiral Molecules by Gold Nanosphere Clusters. *Journal of Physical Chemistry C*, **2014**, 118, 9690-9695	3.8	60
12	Negative differential resistance phenomena in colloidal quantum dots-based organic light-emitting diodes. *Applied Physics Letters*, **2014**, 104, 033301	3.4	5
11	Multi-Band-Stop Filter for Single-Photon Transport Based on a One-Dimensional Waveguide Side Coupled with Optical Cavities. *Plasmonics*, **2014**, 9, 1085-1089	2.4	5
10	Disorder-induced transparency in a one-dimensional waveguide side coupled with optical cavities. *Journal of Applied Physics*, **2014**, 115, 173105	2.5	1

9	Group delay of single-photon transmission in a waveguide side coupled with a Jaynes-Cummings chain. *Journal of Applied Physics*, **2013**, 113, 143105	2.5	8
8	Single-step synthesis of monolithic comb-like CdS nanostructures with tunable waveguide properties. *Nano Letters*, **2013**, 13, 2997-3001	11.5	41
7	Structure and Photoluminescence of Pure and Indium-Doped ZnTe Microstructures. *Journal of Physical Chemistry C*, **2011**, 115, 1415-1421	3.8	29
6	Preparation and periodic emission of superlattice CdS/CdS:SnS2 microwires. *Journal of the American Chemical Society*, **2010**, 132, 12174-5	16.4	28
5	Color-changeable optical transport through Se-doped CdS 1D nanostructures. *Nano Letters*, **2007**, 7, 2970-5	11.5	63
4	(C16H28N)2SbCl5: A new lead-free zero-dimensional metal-halide hybrid with bright orange emission. *Science China Materials*,1	7.1	6
3	Boosting Enhancement of the Electron□Phonon Coupling in Mixed Dimensional CdS/Graphene van der Waals Heterojunction. *Advanced Materials Interfaces*,2101893	4.6	0
2	Dual self-trapped exciton emission of (TBA)2Cu2I4: optical properties and high anti-water stability. *Journal of Materials Chemistry C*,	7.1	5
1	The sensitivity determination of energetic materials from laser spark spectrometry based on physical-parameter-corrected statistical methods. *Journal of Analytical Atomic Spectrometry*,	3.7	2