

# Xiaoming Li

## List of Publications by Citations

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L-index

#	Paper	IF	Citations
77	Quantum Dot Light-Emitting Diodes Based on Inorganic Perovskite Cesium Lead Halides (CsPbX <sub>3</sub> ). <i>Advanced Materials</i> , <b>2015</b> , 27, 7162-7	24	1975
76	CsPbX <sub>3</sub> Quantum Dots for Lighting and Displays: Room-Temperature Synthesis, Photoluminescence Superiorities, Underlying Origins and White Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2435-2445	15.6	1548
75	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
74	Carbon and Graphene Quantum Dots for Optoelectronic and Energy Devices: A Review. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4929-4947	15.6	885
73	Monolayer and Few-Layer All-Inorganic Perovskites as a New Family of Two-Dimensional Semiconductors for Printable Optoelectronic Devices. <i>Advanced Materials</i> , <b>2016</b> , 28, 4861-9	24	533
72	Engineering surface states of carbon dots to achieve controllable luminescence for solid-luminescent composites and sensitive Be <sup>2+</sup> detection. <i>Scientific Reports</i> , <b>2015</b> , 4,	4.9	447
71	All Inorganic Halide Perovskites Nanosystem: Synthesis, Structural Features, Optical Properties and Optoelectronic Applications. <i>Small</i> , <b>2017</b> , 13, 1603996	11	438
70	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
69	In Situ Passivation of PbBr <sub>6</sub> <sup>4-</sup> Octahedra toward Blue Luminescent CsPbBr <sub>3</sub> Nanoplatelets with Near 100% Absolute Quantum Yield. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2030-2037	20.1	281
68	Improving All-Inorganic Perovskite Photodetectors by Preferred Orientation and Plasmonic Effect. <i>Small</i> , <b>2016</b> , 12, 5622-5632	11	271
67	Healing All-Inorganic Perovskite Films via Recyclable Dissolution/Recrystallization for Compact and Smooth Carrier Channels of Optoelectronic Devices with High Stability. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5903-5912	15.6	253
66	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
65	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , <b>2021</b> , 15, 10775-10981	16.7	222
64	Amino-Mediated Anchoring Perovskite Quantum Dots for Stable and Low-Threshold Random Lasing. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701185	24	215
63	Intercrossed carbon nanorings with pure surface states as low-cost and environment-friendly phosphors for white-light-emitting diodes. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1759-64 <sup>16.4</sup>	16.4	213
62	Two-Dimensional, Porous Nickel-Cobalt Sulfide for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 19316-23	9.5	210
61	CsPbBr Quantum Dots 2.0: Benzenesulfonic Acid Equivalent Ligand Awakens Complete Purification. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900767	24	189

60	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
59	Monolayer MoS <sub>2</sub> -Graphene Hybrid Aerogels with Controllable Porosity for Lithium-Ion Batteries with High Reversible Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 2680-7	9.5	173
58	Surface Chemistry of All Inorganic Halide Perovskite Nanocrystals: Passivation Mechanism and Stability. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701662	4.6	170
57	Cu-N dopants boost electron transfer and photooxidation reactions of carbon dots. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 6540-4	16.4	169
56	Integrating large specific surface area and high conductivity in hydrogenated NiCo <sub>2</sub> O <sub>4</sub> double-shell hollow spheres to improve supercapacitors. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e165-e165	10.3	156
55	Boosting Two-Dimensional MoS/CsPbBr Photodetectors via Enhanced Light Absorbance and Interfacial Carrier Separation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 2801-2809	9.5	140
54	Progress of Carbon Quantum Dots in Photocatalysis Applications. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 457-472	3.1	121
53	Remedying Defects in Carbon Nitride To Improve both Photooxidation and H <sub>2</sub> Generation Efficiencies. <i>ACS Catalysis</i> , <b>2016</b> , 6, 3365-3371	13.1	115
52	Solution-Grown CsPbBr <sub>3</sub> /Cs PbBr Perovskite Nanocomposites: Toward Temperature-Insensitive Optical Gain. <i>Small</i> , <b>2017</b> , 13, 1701587	11	110
51	Low-Voltage Photodetectors with High Responsivity Based on Solution-Processed Micrometer-Scale All-Inorganic Perovskite Nanoplatelets. <i>Small</i> , <b>2017</b> , 13, 1700364	11	109
50	Highly Efficient Carbon Dots with Reversibly Switchable Green-Red Emissions for Trichromatic White Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 16005-16014	9.5	104
49	Highly Luminescent and Stable Halide Perovskite Nanocrystals. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 673-681	20.1	100
48	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
47	Capping CsPbBr <sub>3</sub> with ZnO to improve performance and stability of perovskite memristors. <i>Nano Research</i> , <b>2017</b> , 10, 1584-1594	10	95
46	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
45	Space-Confined Growth of CsPbBr <sub>3</sub> Film Achieving Photodetectors with High Performance in All Figures of Merit. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804394	15.6	81
44	Approaching the Theoretical Capacity of Li <sub>3</sub> VO <sub>4</sub> via Electrochemical Reconstruction. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500340	4.6	75
43	Localized surface plasmon resonance of Cu nanoparticles by laser ablation in liquid media. <i>RSC Advances</i> , <b>2015</b> , 5, 79738-79745	3.7	67

42	Ternary Oxide Nanocrystals: Universal Laser-Hydrothermal Synthesis, Optoelectronic and Electrochemical Applications. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5051-5060	15.6	50
41	Origin of green luminescence in carbon quantum dots: specific emission bands originate from oxidized carbon groups. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 4603-4611	3.6	48
40	Quantum Dots: CsPbX <sub>3</sub> Quantum Dots for Lighting and Displays: Room-Temperature Synthesis, Photoluminescence Superiorities, Underlying Origins and White Light-Emitting Diodes (Adv. Funct. Mater. 15/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2584-2584	15.6	48
39	Welding Perovskite Nanowires for Stable, Sensitive, Flexible Photodetectors. <i>ACS Nano</i> , <b>2020</b> , 14, 2777-2787	17.7	46
38	Highly stable and flexible photodetector arrays based on low dimensional CsPbBr <sub>3</sub> microcrystals and on-paper pencil-drawn electrodes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7441-7445	7.1	45
37	Switching excitonic recombination and carrier trapping in cesium lead halide perovskites by air. <i>Communications Physics</i> , <b>2018</b> , 1,	5.4	43
36	Interfacial-Tunneling-Effect-Enhanced CsPbBr <sub>3</sub> Photodetectors Featuring High Detectivity and Stability. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904461	15.6	37
35	Heterogeneous Nucleation toward Polar-Solvent-Free, Fast, and One-Pot Synthesis of Highly Uniform Perovskite Quantum Dots for Wider Color Gamut Display. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800010	4.6	35
34	Controlling oxygen vacancies and properties of ZnO. <i>Current Applied Physics</i> , <b>2014</b> , 14, 521-527	2.6	34
33	Cation Exchange-Induced Dimensionality Construction: From Monolayered to Multilayered 2D Single Crystal Halide Perovskites. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700441	4.6	34
32	All-Perovskite Integrated X-Ray Detector with Ultrahigh Sensitivity. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000273	8.1	33
31	Simple and Fast Patterning Process by Laser Direct Writing for Perovskite Quantum Dots. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700132	6.8	32
30	Strong room-temperature ferromagnetism of pure ZnO nanostructure arrays via colloidal template. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 6807	7.1	30
29	Mn induced significant improvement and robust stability of radioluminescence in CsCuI for high-performance nuclear battery. <i>Nature Communications</i> , <b>2021</b> , 12, 3879	17.4	27
28	Quantum confinement effect of two-dimensional all-inorganic halide perovskites. <i>Science China Materials</i> , <b>2017</b> , 60, 811-818	7.1	26
27	Lead-Free Halide Double Perovskites: Structure, Luminescence, and Applications. <i>Small Structures</i> , <b>2021</b> , 2, 2000071	8.7	25
26	Nonlinear Optics in Lead Halide Perovskites: Mechanisms and Applications. <i>ACS Photonics</i> , <b>2021</b> , 8, 113-124	12.4	24
25	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

24	Perovskite photodetectors with both visible-infrared dual-mode response and super-narrowband characteristics towards photo-communication encryption application. <i>Nanoscale</i> , <b>2017</b> , 10, 359-365	7.7	21
23	An insight into defect relaxation in metastable ZnO reflected by a unique luminescence and Raman evolutions. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 19637-42	3.6	17
22	Rapid and High-Efficiency Laser-Alloying Formation of ZnMgO Nanocrystals. <i>Scientific Reports</i> , <b>2016</b> , 6, 28131	4.9	12
21	Synthesis of single CsPbBr <sub>3</sub> @SiO <sub>2</sub> core-shell particles via surface activation. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 17403-17409	7.1	12
20	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 2629-2636	16.4	12
19	Emissions at Perovskite Quantum Dot/Film Interface with Halide Anion Exchange. <i>ACS Photonics</i> , <b>2018</b> , 5, 4504-4512	6.3	12
18	MgZnO Nanocrystals: Mechanism for Dopant-Stimulated Self-Assembly. <i>Small</i> , <b>2015</b> , 11, 5097-104	11	11
17	Oriented Perovskite Growth Regulation Enables Sensitive Broadband Detection and Imaging of Polarized Photons Covering 300-1050nm. <i>Advanced Materials</i> , <b>2021</b> , 33, e2003852	24	11
16	Lateral cavity enabled Fabry-Perot microlasers from all-inorganic perovskites. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 111103	3.4	10
15	In Situ Fabrication of CsCuI: Tl Nanocrystal Films for High-Resolution and Ultrastable X-ray Imaging.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 2862-2870	6.4	10
14	Amplifying Surface Energy Difference toward Anisotropic Growth of All-Inorganic Perovskite Single-Crystal Wires for Highly Sensitive Photodetector. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101968	15.6	9
13	Charge Transfer Boosting Moisture Resistance of Semimetal Perovskite Nanocrystals via Hierarchical Alumina Modulation. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3159-3165	6.4	8
12	Lattice restraint induced ultra-large bandgap widening of ZnO nanoparticles. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 8969-8974	7.1	7
11	In situ electron beam irradiation-driven formation of quantum dots. <i>RSC Advances</i> , <b>2015</b> , 5, 25717-25722	3.7	5
10	One-pot synthesis of Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> nanocrystals based on thermodynamic equilibrium. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 6152-6159	7.8	5
9	Strong Polarized Photoluminescence CsPbBr Nanowire Composite Films for UV Spectral Conversion Polarization Photodetector Enhancement. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 36147-36156	9.5	5
8	Multiexciton Generation in Semiconductor Nanocrystals: A Potential Avenue Toward Efficient Solar Cells. <i>Science of Advanced Materials</i> , <b>2013</b> , 5, 1585-1595	2.3	4
7	Efficient, Stable, and Tunable Cold/Warm White Light from Lead-Free Halide Double Perovskites Cs <sub>2</sub> Zr <sub>1-x</sub> TexCl <sub>6</sub> . <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100815	8.1	4

6	Single-Solvent, Ligand-Free, Gram-Scale Synthesis of Cs <sub>4</sub> PbBr <sub>6</sub> Perovskite Solids with Robust Green Photoluminescence. <i>ChemNanoMat</i> , <b>2020</b> , 6, 258-266	3.5	4
5	Armor-like passivated CsPbBr <sub>3</sub> quantum dots: boosted stability with hand-in-hand ligands and enhanced performance of nuclear batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 8772-8781	13	4
4	Prediction and observation of defect-induced room-temperature ferromagnetism in halide perovskites. <i>Journal of Semiconductors</i> , <b>2020</b> , 41, 122501	2.3	2
3	Polarization improvement of CsPbClBr quantum dot film by laser direct writing technology. <i>Optics Letters</i> , <b>2021</b> , 46, 777-780	3	2
2	Facet-induced coordination competition for highly ordered CsPbBr <sub>3</sub> nanoplatelets with strong polarized emission. <i>Nano Research</i> , 1	10	2
1	Micro-patterned photoalignment of CsPbBr nanowires with liquid crystal molecule composite film for polarized emission. <i>Nanoscale</i> , <b>2021</b> , 13, 14980-14986	7.7	0