

# Xiaoming Li

## List of Publications by Year in descending order

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77  
papers

16,237  
citations

46918

47  
h-index

69108

77  
g-index

78  
all docs

78  
docs citations

78  
times ranked

15081  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Dot Light-Emitting Diodes Based on Inorganic Perovskite Cesium Lead Halides (CsPbX <sub>3</sub> ). <i>Advanced Materials</i> , 2015, 27, 7162-7167.	11.1	2,457
2	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> , 2016, 26, 2435-2445.	7.8	2,055
3	All-Inorganic Colloidal Perovskite Quantum Dots: A New Class of Lasing Materials with Favorable Characteristics. <i>Advanced Materials</i> , 2015, 27, 7101-7108.	11.1	1,095
4	Carbon and Graphene Quantum Dots for Optoelectronic and Energy Devices: A Review. <i>Advanced Functional Materials</i> , 2015, 25, 4929-4947.	7.8	1,072
5	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	7.3	705
6	Monolayer and Few-Layer All-Inorganic Perovskites as a New Family of Two-Dimensional Semiconductors for Printable Optoelectronic Devices. <i>Advanced Materials</i> , 2016, 28, 4861-4869.	11.1	614
7	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> , 2014, 4, .	1.6	544
8	All Inorganic Halide Perovskites Nanosystem: Synthesis, Structural Features, Optical Properties and Optoelectronic Applications. <i>Small</i> , 2017, 13, 1603996.	5.2	537
9	Nonlinear Absorption and Low-Threshold Multiphoton Pumped Stimulated Emission from All-Inorganic Perovskite Nanocrystals. <i>Nano Letters</i> , 2016, 16, 448-453.	4.5	494
10	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> , 2018, 3, 2030-2037.	8.8	402
11	CsPbBr <sub>3</sub> Quantum Dots 2.0: Benzenesulfonic Acid Equivalent Ligand Awakens Complete Purification. <i>Advanced Materials</i> , 2019, 31, e1900767.	11.1	329
12	Improving All-Inorganic Perovskite Photodetectors by Preferred Orientation and Plasmonic Effect. <i>Small</i> , 2016, 12, 5622-5632.	5.2	314
13	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> , 2016, 26, 5903-5912.	7.8	296
14	Constructing Fast Carrier Tracks into Flexible Perovskite Photodetectors To Greatly Improve Responsivity. <i>ACS Nano</i> , 2017, 11, 2015-2023.	7.3	274
15	Amino-Mediated Anchoring Perovskite Quantum Dots for Stable and Low-Threshold Random Lasing. <i>Advanced Materials</i> , 2017, 29, 1701185.	11.1	269
16	Cu <sup>I</sup> Dopants Boost Electron Transfer and Photooxidation Reactions of Carbon Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6540-6544.	7.2	244
17	Solution-Processed Low Threshold Vertical Cavity Surface Emitting Lasers from All-Inorganic Perovskite Nanocrystals. <i>Advanced Functional Materials</i> , 2017, 27, 1605088.	7.8	242
18	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> , 2015, 54, 1759-1764.	7.2	238

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19	Two-Dimensional, Porous Nickel-Cobalt Sulfide for High-Performance Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 19316-19323.	4.0	234
20	Surface Chemistry of All Inorganic Halide Perovskite Nanocrystals: Passivation Mechanism and Stability. Advanced Materials Interfaces, 2018, 5, 1701662.	1.9	230
21	Boosting Two-Dimensional MoS <sub>2</sub> /CsPbBr <sub>3</sub> Photodetectors via Enhanced Light Absorbance and Interfacial Carrier Separation. ACS Applied Materials & Interfaces, 2018, 10, 2801-2809.	4.0	207
22	Monolayer MoS <sub>2</sub> -Graphene Hybrid Aerogels with Controllable Porosity for Lithium-Ion Batteries with High Reversible Capacity. ACS Applied Materials & Interfaces, 2016, 8, 2680-2687.	4.0	191
23	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. NPG Asia Materials, 2015, 7, e165-e165.	3.8	177
24	Progress of Carbon Quantum Dots in Photocatalysis Applications. Particle and Particle Systems Characterization, 2016, 33, 457-472.	1.2	172
25	Remedying Defects in Carbon Nitride To Improve both Photooxidation and H <sub>2</sub> Generation Efficiencies. ACS Catalysis, 2016, 6, 3365-3371.	5.5	148
26	Highly Efficient Carbon Dots with Reversibly Switchable Green-Red Emissions for Trichromatic White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 16005-16014.	4.0	147
27	Surface Halogen Compensation for Robust Performance Enhancements of CsPbX <sub>3</sub> Perovskite Quantum Dots. Advanced Optical Materials, 2019, 7, 1900276.	3.6	138
28	Solution-Grown CsPbBr <sub>3</sub> /Cs <sub>4</sub> PbBr <sub>6</sub> Perovskite Nanocomposites: Toward Temperature-Insensitive Optical Gain. Small, 2017, 13, 1701587.	5.2	134
29	Capping CsPbBr <sub>3</sub> with ZnO to improve performance and stability of perovskite memristors. Nano Research, 2017, 10, 1584-1594.	5.8	134
30	Photon Driven Transformation of Cesium Lead Halide Perovskites from Few-Monolayer Nanoplatelets to Bulk Phase. Advanced Materials, 2016, 28, 10637-10643.	11.1	130
31	Highly Luminescent and Stable Halide Perovskite Nanocrystals. ACS Energy Letters, 2019, 4, 673-681.	8.8	129
32	Low-Voltage Photodetectors with High Responsivity Based on Solution-Processed Micrometer-Scale All-Inorganic Perovskite Nanoplatelets. Small, 2017, 13, 1700364.	5.2	119
33	Space-Constrained Growth of CsPbBr <sub>3</sub> Film Achieving Photodetectors with High Performance in All Figures of Merit. Advanced Functional Materials, 2018, 28, 1804394.	7.8	108
34	Localized surface plasmon resonance of Cu nanoparticles by laser ablation in liquid media. RSC Advances, 2015, 5, 79738-79745.	1.7	101
35	Approaching the Theoretical Capacity of Li <sub>3</sub> VO <sub>4</sub> via Electrochemical Reconstruction. Advanced Materials Interfaces, 2016, 3, 1500340.	1.9	97
36	Welding Perovskite Nanowires for Stable, Sensitive, Flexible Photodetectors. ACS Nano, 2020, 14, 2777-2787.	7.3	90

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37	Nonlinear Optics in Lead Halide Perovskites: Mechanisms and Applications. ACS Photonics, 2021, 8, 113-124.	3.2	80
38	Mn <sup>2+</sup> induced significant improvement and robust stability of radioluminescence in Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> for high-performance nuclear battery. Nature Communications, 2021, 12, 3879.	5.8	76
39	Lead-Free Halide Double Perovskites: Structure, Luminescence, and Applications. Small Structures, 2021, 2, 2000071.	6.9	71
40	Interfacial Tunneling Effect-Enhanced CsPbBr <sub>3</sub> Photodetectors Featuring High Detectivity and Stability. Advanced Functional Materials, 2019, 29, 1904461.	7.8	70
41	All-Perovskite Integrated X-Ray Detector with Ultrahigh Sensitivity. Advanced Optical Materials, 2020, 8, 2000273.	3.6	61
42	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.) Tj ETQq07080 rgBT /5 Overlock 1	7.8	60
43	Switching excitonic recombination and carrier trapping in cesium lead halide perovskites by air. Communications Physics, 2018, 1, .	2.0	59
44	Ternary Oxide Nanocrystals: Universal Laser-Hydrothermal Synthesis, Optoelectronic and Electrochemical Applications. Advanced Functional Materials, 2016, 26, 5051-5060.	7.8	58
45	Origin of green luminescence in carbon quantum dots: specific emission bands originate from oxidized carbon groups. New Journal of Chemistry, 2018, 42, 4603-4611.	1.4	58
46	Simple and Fast Patterning Process by Laser Direct Writing for Perovskite Quantum Dots. Advanced Materials Technologies, 2017, 2, 1700132.	3.0	55
47	Highly stable and flexible photodetector arrays based on low dimensional CsPbBr <sub>3</sub> microcrystals and on-paper pencil-drawn electrodes. Journal of Materials Chemistry C, 2017, 5, 7441-7445.	2.7	51
48	Heterogeneous Nucleation toward Polar-Solvent-Free, Fast, and One-Pot Synthesis of Highly Uniform Perovskite Quantum Dots for Wider Color Gamut Display. Advanced Materials Interfaces, 2018, 5, 1800010.	1.9	49
49	Controlling oxygen vacancies and properties of ZnO. Current Applied Physics, 2014, 14, 521-527.	1.1	42
50	In Situ Fabrication of Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> : TI Nanocrystal Films for High-Resolution and Ultrastable X-ray Imaging. Journal of Physical Chemistry Letters, 2022, 13, 2862-2870.	2.1	39
51	Quantum confinement effect of two-dimensional all-inorganic halide perovskites. Science China Materials, 2017, 60, 811-818.	3.5	38
52	Cation Exchange-Induced Dimensionality Construction: From Monolayered to Multilayered 2D Single Crystal Halide Perovskites. Advanced Materials Interfaces, 2017, 4, 1700441.	1.9	38
53	Temperature Dependent Reflectance and Ellipsometry Studies on a CsPbBr <sub>3</sub> Single Crystal. Journal of Physical Chemistry C, 2019, 123, 10564-10570.	1.5	37
54	Synthesis of single CsPbBr <sub>3</sub> @SiO <sub>2</sub> core-shell particles via surface activation. Journal of Materials Chemistry C, 2020, 8, 17403-17409.	2.7	36

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55	Strong room-temperature ferromagnetism of pure ZnO nanostructure arrays via colloidal template. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6807.	2.7	32
56	Perovskite photodetectors with both visible-infrared dual-mode response and super-narrowband characteristics towards photo-communication encryption application. <i>Nanoscale</i> , 2018, 10, 359-365.	2.8	32
57	Oriented Perovskite Growth Regulation Enables Sensitive Broadband Detection and Imaging of Polarized Photons Covering 300–1050 nm. <i>Advanced Materials</i> , 2021, 33, e2003852.	11.1	32
58	Efficient, Stable, and Tunable Cold/Warm White Light from Lead-Free Halide Double Perovskites Cs <sub>2</sub> ZrI <sub>4</sub> xTe <sub>x</sub> Cl <sub>6</sub> . <i>Advanced Optical Materials</i> , 2021, 9, 2100815.	3.6	30
59	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2629-2636.	7.2	24
60	An insight into defect relaxation in metastable ZnO reflected by a unique luminescence and Raman evolutions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19637-19642.	1.3	22
61	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> , 2021, 5, 6152-6159.	3.2	22
62	Lateral cavity enabled Fabry-Perot microlasers from all-inorganic perovskites. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	21
63	Amplifying Surface Energy Difference toward Anisotropic Growth of All-Inorganic Perovskite Single-Crystal Wires for Highly Sensitive Photodetector. <i>Advanced Functional Materials</i> , 2021, 31, 2101966.	7.8	21
64	Strong Polarized Photoluminescence CsPbBr <sub>3</sub> Nanowire Composite Films for UV Spectral Conversion Polarization Photodetector Enhancement. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 36147-36156.	4.0	20
65	Facet-induced coordination competition for highly ordered CsPbBr <sub>3</sub> nanoplatelets with strong polarized emission. <i>Nano Research</i> , 2022, 15, 502-509.	5.8	18
66	Emissions at Perovskite Quantum Dot/Film Interface with Halide Anion Exchange. <i>ACS Photonics</i> , 2018, 5, 4504-4512.	3.2	17
67	Charge Transfer Boosting Moisture Resistance of Semirigid Perovskite Nanocrystals via Hierarchical Alumina Modulation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3159-3165.	2.1	16
68	Rapid and High-Efficiency Laser-Alloying Formation of ZnMgO Nanocrystals. <i>Scientific Reports</i> , 2016, 6, 28131.	1.6	15
69	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> , 2021, 9, 8772-8781.	5.2	13
70	MgZnO Nanocrystals: Mechanism for Dopant-Stimulated Self-Assembly. <i>Small</i> , 2015, 11, 5097-5104.	5.2	12
71	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> , 2020, 6, 258-266.	1.5	11
72	Micro-patterned photoalignment of CsPbBr <sub>3</sub> nanowires with liquid crystal molecule composite film for polarized emission. <i>Nanoscale</i> , 2021, 13, 14980-14986.	2.8	10

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73	Lattice restraint induced ultra-large bandgap widening of ZnO nanoparticles. Journal of Materials Chemistry C, 2019, 7, 8969-8974.	2.7	8
74	In situ electron beam irradiation-driven formation of quantum dots. RSC Advances, 2015, 5, 25717-25722.	1.7	5
75	Prediction and observation of defect-induced room-temperature ferromagnetism in halide perovskites. Journal of Semiconductors, 2020, 41, 122501.	2.0	5
76	Multiexciton Generation in Semiconductor Nanocrystals: A Potential Avenue Toward Efficient Solar Cells. Science of Advanced Materials, 2013, 5, 1585-1595.	0.1	4
77	Polarization improvement of CsPbClBr <sub>2</sub> quantum dot film by laser direct writing technology. Optics Letters, 2021, 46, 777.	1.7	3