Xiaoming Li

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8040440/publications.pdf

Version: 2024-02-01

		46984	69214
77	16,237	47	77
papers	citations	h-index	g-index

78	78	78	15081
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantum Dot Lightâ€Emitting Diodes Based on Inorganic Perovskite Cesium Lead Halides (CsPbX₃). Advanced Materials, 2015, 27, 7162-7167.	11.1	2,457
2	CsPbX₃ Quantum Dots for Lighting and Displays: Roomâ€Temperature Synthesis, Photoluminescence Superiorities, Underlying Origins and White Lightâ€Emitting Diodes. Advanced Functional Materials, 2016, 26, 2435-2445.	7.8	2,055
3	Allâ€Inorganic Colloidal Perovskite Quantum Dots: A New Class of Lasing Materials with Favorable Characteristics. Advanced Materials, 2015, 27, 7101-7108.	11.1	1,095
4	Carbon and Graphene Quantum Dots for Optoelectronic and Energy Devices: A Review. Advanced Functional Materials, 2015, 25, 4929-4947.	7.8	1,072
5	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
6	Monolayer and Fewâ€Layer Allâ€Inorganic Perovskites as a New Family of Twoâ€Dimensional Semiconductors for Printable Optoelectronic Devices. Advanced Materials, 2016, 28, 4861-4869.	11.1	614
7	Engineering surface states of carbon dots to achieve controllable luminescence for solid-luminescent composites and sensitive Be2+ detection. Scientific Reports, 2014, 4, .	1.6	544
8	All Inorganic Halide Perovskites Nanosystem: Synthesis, Structural Features, Optical Properties and Optoelectronic Applications. Small, 2017, 13, 1603996.	5.2	537
9	Nonlinear Absorption and Low-Threshold Multiphoton Pumped Stimulated Emission from All-Inorganic Perovskite Nanocrystals. Nano Letters, 2016, 16, 448-453.	4.5	494
10	In Situ Passivation of PbBr₆^{4â€“} Octahedra toward Blue Luminescent CsPbBr₃ Nanoplatelets with Near 100% Absolute Quantum Yield. ACS Energy Letters, 2018, 3, 2030-2037.	8.8	402
11	CsPbBr₃ Quantum Dots 2.0: Benzenesulfonic Acid Equivalent Ligand Awakens Complete Purification. Advanced Materials, 2019, 31, e1900767.	11.1	329
12	Improving Allâ€Inorganic Perovskite Photodetectors by Preferred Orientation and Plasmonic Effect. Small, 2016, 12, 5622-5632.	5.2	314
13	Healing Allâ€Inorganic Perovskite Films via Recyclable Dissolutionâ€“Recyrstallization for Compact and Smooth Carrier Channels of Optoelectronic Devices with High Stability. Advanced Functional Materials, 2016, 26, 5903-5912.	7.8	296
14	Constructing Fast Carrier Tracks into Flexible Perovskite Photodetectors To Greatly Improve Responsivity. ACS Nano, 2017, 11, 2015-2023.	7.3	274
15	Aminoâ€Mediated Anchoring Perovskite Quantum Dots for Stable and Lowâ€Threshold Random Lasing. Advanced Materials, 2017, 29, 1701185.	11.1	269
16	Cuâ€“N Dopants Boost Electron Transfer and Photooxidation Reactions of Carbon Dots. Angewandte Chemie - International Edition, 2015, 54, 6540-6544.	7.2	244
17	Solutionâ€Processed Low Threshold Vertical Cavity Surface Emitting Lasers from Allâ€Inorganic Perovskite Nanocrystals. Advanced Functional Materials, 2017, 27, 1605088.	7.8	242
18	Intercrossed Carbon Nanorings with Pure Surface States as Lowâ€Cost and Environmentâ€Friendly Phosphors for Whiteâ€Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2015, 54, 1759-1764.	7.2	238

#	Article	IF	Citations
19	Two-Dimensional, Porous Nickelâ€“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 MoS₂/CsPbBr₃ Photodetectors via Enhanced Light Absorbance and Interfacial Carrier Separation. ACS Applied Materials & Interfaces, 2018, 10, 2801-2809.	4.0	207
22	Monolayer MoS₂â€“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 NiCo2O4 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 H₂ Generation Efficiencies. ACS Catalysis, 2016, 6, 3365-3371.	5.5	148
26	Highly Efficient Carbon Dots with Reversibly Switchable Greenâ€“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 CsPbX₃ Perovskite Quantum Dots. Advanced Optical Materials, 2019, 7, 1900276.	3.6	138
28	Solutionâ€Grown CsPbBr₃/Cs₄PbBr₆ Perovskite Nanocomposites: Toward Temperatureâ€Insensitive Optical Gain. Small, 2017, 13, 1701587.	5.2	134
29	Capping CsPbBr3 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 Fewâ€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	Lowâ€Voltage Photodetectors with High Responsivity Based on Solutionâ€Processed Micrometerâ€Scale Allâ€Inorganic Perovskite Nanoplatelets. Small, 2017, 13, 1700364.	5.2	119
33	Spaceâ€Confined Growth of CsPbBr₃ 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 Li₃VO₄ 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

#	Article	IF	Citations
37	Nonlinear Optics in Lead Halide Perovskites: Mechanisms and Applications. ACS Photonics, 2021, 8, 113-124.	3.2	80
38	Mn2+ induced significant improvement and robust stability of radioluminescence in Cs3Cu2I5 for high-performance nuclear battery. Nature Communications, 2021, 12, 3879.	5.8	76
39	Leadâ€Free Halide Double Perovskites: Structure, Luminescence, and Applications. Small Structures, 2021, 2, 2000071.	6.9	71
40	Interfacialâ€Tunnelingâ€Effectâ€Enhanced CsPbBr₃ Photodetectors Featuring High Detectivity and Stability. Advanced Functional Materials, 2019, 29, 1904461.	7.8	70
41	Allâ€Perovskite Integrated Xâ€Ray Detector with Ultrahigh Sensitivity. Advanced Optical Materials, 2020, 8, 2000273.	3.6	61
42	Quantum Dots: CsPbX₃ Quantum Dots for Lighting and Displays: Roomâ€Temperature Synthesis, Photoluminescence Superiorities, Underlying Origins and White Lightâ€Emitting Diodes (Adv.) Tj ETQq0 0 0 rgBT /Overlock 1	7.8	59
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 Laserâ€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 CsPbBr₃ microcrystals and on-paper pencil-drawn electrodes. Journal of Materials Chemistry C, 2017, 5, 7441-7445.	2.7	51
48	Heterogeneous Nucleation toward Polarâ€Solventâ€Free, Fast, and Oneâ€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 Cs₃Cu₂I₅:Tl 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 Exchangeâ€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 CsPbBr₃ Single Crystal. Journal of Physical Chemistry C, 2019, 123, 10564-10570.	1.5	37
54	Synthesis of single CsPbBr₃@SiO₂ coreâ€“shell particles via surface activation. Journal of Materials Chemistry C, 2020, 8, 17403-17409.	2.7	36

#	Article	IF	Citations
55	Strong room-temperature ferromagnetism of pure ZnO nanostructure arrays via colloidal template. Journal of Materials Chemistry C, 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. Nanoscale, 2018, 10, 359-365.	2.8	32
57	Oriented Perovskite Growth Regulation Enables Sensitive Broadband Detection and Imaging of Polarized Photons Covering 300â€“1050Ânm. Advanced Materials, 2021, 33, e2003852.	11.1	32
58	Efficient, Stable, and Tunable Cold/Warm White Light from Leadâ€Free Halide Double Perovskites Cs₂Zr_{1â€<}_xTe_xCl₆. Advanced Optical Materials, 2021, 9, 2100815.	3.6	30
59	Overcoming the Anisotropic Growth Limitations of Freeâ€Standing Singleâ€Crystal Halide Perovskite Films. Angewandte Chemie - International Edition, 2021, 60, 2629-2636.	7.2	24
60	An insight into defect relaxation in metastable ZnO reflected by a unique luminescence and Raman evolutions. Physical Chemistry Chemical Physics, 2015, 17, 19637-19642.	1.3	22
61	One-pot synthesis of Cs₃Cu₂I₅ nanocrystals based on thermodynamic equilibrium. Materials Chemistry Frontiers, 2021, 5, 6152-6159.	3.2	22
62	Lateral cavity enabled Fabry-Perot microlasers from all-inorganic perovskites. Applied Physics Letters, 2019, 115, .	1.5	21
63	Amplifying Surface Energy Difference toward Anisotropic Growth of Allâ€Inorganic Perovskite Singleâ€Crystal Wires for Highly Sensitive Photodetector. Advanced Functional Materials, 2021, 31, 2101966.	7.8	21
64	Strong Polarized Photoluminescence CsPbBr₃ Nanowire Composite Films for UV Spectral Conversion Polarization Photodetector Enhancement. ACS Applied Materials & Interfaces, 2021, 13, 36147-36156.	4.0	20
65	Facet-induced coordination competition for highly ordered CsPbBr3 nanoplatelets with strong polarized emission. Nano Research, 2022, 15, 502-509.	5.8	18
66	Emissions at Perovskite Quantum Dot/Film Interface with Halide Anion Exchange. ACS Photonics, 2018, 5, 4504-4512.	3.2	17
67	Charge Transfer Boosting Moisture Resistance of Seminude Perovskite Nanocrystals via Hierarchical Alumina Modulation. Journal of Physical Chemistry Letters, 2020, 11, 3159-3165.	2.1	16
68	Rapid and High-Efficiency Laser-Alloying Formation of ZnMgO Nanocrystals. Scientific Reports, 2016, 6, 28131.	1.6	15
69	Armor-like passivated CsPbBr₃ quantum dots: boosted stability with hand-in-hand ligands and enhanced performance of nuclear batteries. Journal of Materials Chemistry A, 2021, 9, 8772-8781.	5.2	13
70	MgZnO Nanocrystals: Mechanism for Dopantâ€Stimulated Selfâ€Assembly. Small, 2015, 11, 5097-5104.	5.2	12
71	Singleâ€Solvent, Ligandâ€Free, Gramâ€Scale Synthesis of Cs 4 PbBr 6 Perovskite Solids with Robust Green Photoluminescence. ChemNanoMat, 2020, 6, 258-266.	1.5	11
72	Micro-patterned photoalignment of CsPbBr₃ nanowires with liquid crystal molecule composite film for polarized emission. Nanoscale, 2021, 13, 14980-14986.	2.8	10

#	Article	IF	Citations
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 CsPbClBr₂ quantum dot film by laser direct writing technology. Optics Letters, 2021, 46, 777.	1.7	3