

# Ji-Zhong Song

## List of Publications by Year in descending order

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91  
papers

16,548  
citations

50170

46  
h-index

46693

89  
g-index

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98  
docs citations

98  
times ranked

14604  
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	50% Fold EQE Improvement up to 6.27% of Solution-Processed All-Inorganic Perovskite CsPbBr <sub>3</sub> QLEDs via Surface Ligand Density Control. <i>Advanced Materials</i> , 2017, 29, 1603885.	11.1	982
6	Stabilizing Cesium Lead Halide Perovskite Lattice through Mn(II) Substitution for Air-Stable Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2017, 139, 11443-11450.	6.6	705
7	A Voltage-Boosting Strategy Enabling a Low-Frequency, Flexible Electromagnetic Wave Absorption Device. <i>Advanced Materials</i> , 2018, 30, e1706343.	11.1	691
8	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
9	Ce <sup>3+</sup> -Doping to Modulate Photoluminescence Kinetics for Efficient CsPbBr <sub>3</sub> Nanocrystals Based Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2018, 140, 3626-3634.	6.6	442
10	Room-Temperature Triple-Ligand Surface Engineering Synergistically Boosts Ink Stability, Recombination Dynamics, and Charge Injection toward EQE ~11.6% Perovskite QLEDs. <i>Advanced Materials</i> , 2018, 30, e1800764.	11.1	431
11	Organic-Inorganic Hybrid Passivation Enables Perovskite QLEDs with an EQE of 16.48%. <i>Advanced Materials</i> , 2018, 30, e1805409.	11.1	409
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	Superstable Transparent Conductive Cu@Cu <sub>4</sub> Ni Nanowire Elastomer Composites against Oxidation, Bending, Stretching, and Twisting for Flexible and Stretchable Optoelectronics. <i>Nano Letters</i> , 2014, 14, 6298-6305.	4.5	262
15	Cu <sup>I</sup> N Dopants Boost Electron Transfer and Photooxidation Reactions of Carbon Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6540-6544.	7.2	244
16	Ultralarge All-Inorganic Perovskite Bulk Single Crystal for High-Performance Visible-Infrared Dual-Modal Photodetectors. <i>Advanced Optical Materials</i> , 2017, 5, 1700157.	3.6	244
17	Double-Protected All-Inorganic Perovskite Nanocrystals by Crystalline Matrix and Silica for Triple-Modal Anti-Counterfeiting Codes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 26556-26564.	4.0	232
18	Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites. <i>Nature Photonics</i> , 2021, 15, 238-244.	15.6	231

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19	High Performance Metal Halide Perovskite Light-Emitting Diode: From Material Design to Device Optimization. <i>Small</i> , 2017, 13, 1701770.	5.2	209
20	A bilateral interfacial passivation strategy promoting efficiency and stability of perovskite quantum dot light-emitting diodes. <i>Nature Communications</i> , 2020, 11, 3902.	5.8	204
21	Narrowband Perovskite Photodetector-Based Image Array for Potential Application in Artificial Vision. <i>Nano Letters</i> , 2018, 18, 7628-7634.	4.5	180
22	Perovskite QLED with an external quantum efficiency of over 21% by modulating electronic transport. <i>Science Bulletin</i> , 2021, 66, 36-43.	4.3	162
23	All-inorganic quantum-dot light-emitting diodes based on perovskite emitters with low turn-on voltage and high humidity stability. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4565-4570.	2.7	149
24	Recent progress of metal halide perovskite photodetectors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11369-11394.	2.7	138
25	Transparent Electrodes Printed with Nanocrystal Inks for Flexible Smart Devices. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9760-9774.	7.2	135
26	A comprehensive review of doping in perovskite nanocrystals/quantum dots: evolution of structure, electronics, optics, and light-emitting diodes. <i>Materials Today Nano</i> , 2019, 6, 100036.	2.3	118
27	Efficient Blue Perovskite Light-Emitting Diodes Boosted by 2D/3D Energy Cascade Channels. <i>Advanced Functional Materials</i> , 2020, 30, 2001732.	7.8	118
28	Near-Infrared Plasmonic 2D Semimetals for Applications in Communication and Biology. <i>Advanced Functional Materials</i> , 2016, 26, 1793-1802.	7.8	114
29	Epitaxial ZnO Nanowire-on-Nanoplate Structures as Efficient and Transferable Field Emitters. <i>Advanced Materials</i> , 2013, 25, 5750-5755.	11.1	111
30	Stable, Efficient Red Perovskite Light-Emitting Diodes by $(\text{I}^{\pm}, \text{I}^{\uparrow})\text{CsPbI}_3$ Phase Engineering. <i>Advanced Functional Materials</i> , 2018, 28, 1804285.	7.8	105
31	Perovskite nanocrystals: synthesis, properties and applications. <i>Science Bulletin</i> , 2017, 62, 369-380.	4.3	96
32	Recent advances and prospects toward blue perovskite materials and light-emitting diodes. <i>Informa Materials</i> , 2019, 1, 211-233.	8.5	84
33	Self-powered fiber-shaped wearable omnidirectional photodetectors. <i>Nano Energy</i> , 2016, 30, 173-179.	8.2	82
34	Perovskite light-emitting/detecting bifunctional fibres for wearable LiFi communication. <i>Light: Science and Applications</i> , 2020, 9, 163.	7.7	81
35	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2390-2394.	7.2	80
36	Constructing Mie-Scattering Porous Interface-Fused Perovskite Films to Synergistically Boost Light Harvesting and Carrier Transport. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5232-5236.	7.2	75

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37	Synthesis of stable and phase-adjustable CsPbBr <sub>3</sub> @Cs <sub>4</sub> PbBr <sub>6</sub> nanocrystals via novel anion-cation reactions. <i>Nanoscale Advances</i> , 2019, 1, 980-988.	2.2	67
38	Green Perovskite Light-Emitting Diodes with 200 Hours Stability and 16% Efficiency: Cross-Linking Strategy and Mechanism. <i>Advanced Functional Materials</i> , 2021, 31, 2011003.	7.8	67
39	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.) <i>Tj ETQq17180.784334 rgBT /D</i>	10.7	54
40	Switching excitonic recombination and carrier trapping in cesium lead halide perovskites by air. <i>Communications Physics</i> , 2018, 1, .	2.0	59
41	Nanowire-based transparent conductors for flexible electronics and optoelectronics. <i>Science Bulletin</i> , 2017, 62, 143-156.	4.3	57
42	Photon-Induced Reversible Phase Transition in CsPbBr <sub>3</sub> Perovskite. <i>Advanced Functional Materials</i> , 2019, 29, 1807922.	7.8	56
43	A General One-Pot Strategy for the Synthesis of High-Performance Transparent-Conducting-Oxide Nanocrystal Inks for All-Solution-Processed Devices. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 462-466.	7.2	52
44	An all-inkjet-printed flexible UV photodetector. <i>Nanoscale</i> , 2017, 9, 8580-8585.	2.8	49
45	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> , 2018, 5, 1800010.	1.9	49
46	Novel Lewis Base Cyclam Self-Passivation of Perovskites without an Anti-Solvent Process for Efficient Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 14224-14232.	4.0	48
47	A zinc non-halide dopant strategy enables efficient perovskite CsPbI <sub>3</sub> quantum dot-based light-emitting diodes. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1444-1453.	3.2	48
48	Stabilizing electroluminescence color of blue perovskite LEDs via amine group doping. <i>Science Bulletin</i> , 2021, 66, 2189-2198.	4.3	48
49	High-Efficiency Pure-Color Inorganic Halide Perovskite Emitters for Ultrahigh-Definition Displays: Progress for Backlighting Displays and Electrically Driven Devices. <i>Small Methods</i> , 2018, 2, 1700382.	4.6	47
50	Perovskite Nanocrystal Fluorescence-Linked Immunosorbent Assay Methodology for Sensitive Point-of-Care Biological Test. <i>Matter</i> , 2020, 3, 273-286.	5.0	46
51	Controlling oxygen vacancies and properties of ZnO. <i>Current Applied Physics</i> , 2014, 14, 521-527.	1.1	42
52	Flexible quantum dot-PVA composites for white LEDs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 257-264.	2.7	41
53	Quantum confinement effect of two-dimensional all-inorganic halide perovskites. <i>Science China Materials</i> , 2017, 60, 811-818.	3.5	38
54	Room-temperature synthesis of perovskite-phase CsPbI <sub>3</sub> nanocrystals for optoelectronics via a ligand-mediated strategy. <i>Chemical Engineering Journal</i> , 2021, 418, 129361.	6.6	38

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55	Temperature Dependent Reflectance and Ellipsometry Studies on a CsPbBr <sub>3</sub> Single Crystal. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10564-10570.	1.5	37
56	Wearable and visual pressure sensors based on Zn <sub>2</sub> GeO <sub>4</sub> @polypyrrole nanowire aerogels. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11018-11024.	2.7	34
57	Ag/white graphene foam for catalytic oxidation of methanol with high efficiency and stability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6679-6684.	5.2	28
58	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie</i> , 2017, 129, 2430-2434.	1.6	28
59	A low-dimension structure strategy for flexible photodetectors based on perovskite nanosheets/ZnO nanowires with broadband photoresponse. <i>Science China Materials</i> , 2020, 63, 100-109.	3.5	26
60	Synthesis of Colloidal Halide Perovskite Quantum Dots/Nanocrystals: Progresses and Advances. <i>Israel Journal of Chemistry</i> , 2019, 59, 649-660.	1.0	25
61	Bicolor Light-Emitting Diode Based on Zinc Oxide Nanorod Arrays and Poly(2-methoxy,5-octoxy)-1,4-phenylenevinylene. <i>Journal of Electronic Materials</i> , 2012, 41, 431-436.	1.0	24
62	ZnO-Nanowires/PANI Inorganic/Organic Heterostructure Light-Emitting Diode. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7254-7257.	0.9	23
63	Nanocrystals: Quantum Dot Light-Emitting Diodes Based on Inorganic Perovskite Cesium Lead Halides (CsPbX <sub>3</sub> ) (Adv. Mater. 44/2015). <i>Advanced Materials</i> , 2015, 27, 7161-7161.	11.1	23
64	Nickel concentration-dependent opto-electrical performances and stability of Cu@CuNi nanowire transparent conductors. <i>RSC Advances</i> , 2016, 6, 91394-91400.	1.7	19
65	Giant efficiency and color purity enhancement in multicolor inorganic perovskite light-emitting diodes via heating-assisted vacuum deposition. <i>Journal of Semiconductors</i> , 2020, 41, 052205.	2.0	19
66	All-inorganic perovskite quantum dots as light-harvesting, interfacial, and light-converting layers toward solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18947-18973.	5.2	19
67	Novel epoxy-silicone thermolytic transparent packaging adhesives chemical modified by ZnO nanowires for HB LEDs. <i>Journal of Nanoparticle Research</i> , 2010, 12, 3019-3024.	0.8	18
68	Highly efficient sky-blue light-emitting diodes based on Cu-treated halide perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13445-13452.	2.7	17
69	High-temperature-mixing hydrothermal synthesis of ZnO nanocrystals with wide growth window. <i>Current Applied Physics</i> , 2014, 14, 359-365.	1.1	16
70	Enhancement of adjustable localized surface plasmon resonance in ZnO nanocrystals via a dual doping approach. <i>Science Bulletin</i> , 2017, 62, 693-699.	4.3	16
71	Flat, Luminescent, and Defect-Less Perovskite Films on PVK for Light-Emitting Diodes with Enhanced Efficiency and Stability. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3530-3537.	2.0	16
72	Controllable Transient Photocurrent in Photodetectors Based on Perovskite Nanocrystals via Doping and Interfacial Engineering. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5475-5484.	1.5	15

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73	MgZnO Nanocrystals: Mechanism for Dopant-Induced Self-Assembly. <i>Small</i> , 2015, 11, 5097-5104.	5.2	12
74	Constructing Mie-Scattering Porous Interface-Fused Perovskite Films to Synergistically Boost Light Harvesting and Carrier Transport. <i>Angewandte Chemie</i> , 2017, 129, 5316-5320.	1.6	12
75	Nanowire network-based photodetectors with imaging performance for omnidirectional photodetecting through a wire-shaped structure. <i>RSC Advances</i> , 2018, 8, 33666-33673.	1.7	12
76	The Synergy of Plasmonic Enhancement and Hot-Electron Effect on CsPbBr <sub>3</sub> Nanosheets Photodetector. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002053.	1.9	12
77	Recent progress on defect modulation for highly efficient metal halide perovskite light-emitting diodes. <i>Applied Materials Today</i> , 2021, 22, 100946.	2.3	11
78	Triangle-, tripod-, and tetrapod-branched ITO nanocrystals for anisotropic infrared plasmonics. <i>Nanoscale</i> , 2017, 9, 19374-19383.	2.8	10
79	Organic composition tailored perovskite solar cells and light-emitting diodes: Perspectives and advances. <i>Materials Today Energy</i> , 2019, 14, 100338.	2.5	9
80	ZnO nanowire lines and bundles: Template-deformation-guided alignment for patterned field-electron emitters. <i>Current Applied Physics</i> , 2015, 15, 1296-1302.	1.1	6
81	Self-template Synthesis of Metal Halide Perovskite Nanotubes as Functional Cavities for Tailored Optoelectronic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21100-21108.	4.0	6
82	CsPbI <sub>3</sub> Perovskite Quantum Dots: Fine Purification and Highly Efficient Light-emitting Diodes. <i>Acta Chimica Sinica</i> , 2021, 79, 126.	0.5	6
83	Colloidal metal oxides in electronics and optoelectronics. , 2020, , 203-246.		3
84	Field Emitters: Epitaxial ZnO Nanowire-on-Nanoplate Structures as Efficient and Transferable Field Emitters ( <i>Adv. Mater.</i> 40/2013). <i>Advanced Materials</i> , 2013, 25, 5678-5678.	11.1	2
85	Ångström-scale: A General One-Pot Strategy for the Synthesis of High-Performance Transparent-Conducting-Oxide Nanocrystal Inks for All-Solution-Processed Devices ( <i>Angew. Chem.</i> ) Tj ETQq1 1 0.784314 rgBt /Overlo		
86	Metal Halide Perovskite-Based Phosphors and Their Applications in LEDs. <i>Engineering Materials</i> , 2022, , 3-49.	0.3	1
87	51.4: <i>Invited Paper:</i> Quantum dot light-emitting diodes based on all-inorganic perovskite CsPbX <sub>3</sub> . <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 569-569.	0.1	0
88	P&#13.4: All-inorganic Perovskite Light-Emitting Diodes based on Heating-Assisted Vacuum Evaporation with ultra-pure emission. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 966-966.	0.1	0
89	P&#13.6: Efficiency Improvement of CsPbI <sub>3</sub> Quantum dot Light Emitting Diodes via Alkyl Chain Ligand Regulation. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 970-970.	0.1	0
90	Photodetectors Based on Perovskite Quantum Dots. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2021, , 75-117.	0.4	0

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91	IMPROVEMENT OF OPTICAL PROPERTIES OF ZnO-SILICONE NANOCOMPOSITES BY CHEMICAL GRAFTING. Acta Polymerica Sinica, 2010, 00, 1406-1410.	0.0	0