

Ji-Zhong Song

List of Publications by Year in descending order

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91
papers

16,548
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50276

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docs citations

98
times ranked

14604
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Halide Perovskite-Based Phosphors and Their Applications in LEDs. <i>Engineering Materials</i> , 2022, , 3-49.	0.6	1
2	Perovskite QLED with an external quantum efficiency of over 21% by modulating electronic transport. <i>Science Bulletin</i> , 2021, 66, 36-43.	9.0	162
3	Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites. <i>Nature Photonics</i> , 2021, 15, 238-244.	31.4	231
4	CsPbI ₃ Perovskite Quantum Dots: Fine Purification and Highly Efficient Light-emitting Diodes. <i>Acta Chimica Sinica</i> , 2021, 79, 126.	1.4	6
5	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.	10.3	19
6	The Synergy of Plasmonic Enhancement and Hot-Electron Effect on CsPbBr ₃ Nanosheets Photodetector. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002053.	3.7	12
7	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.	3.1	15
8	Recent progress on defect modulation for highly efficient metal halide perovskite light-emitting diodes. <i>Applied Materials Today</i> , 2021, 22, 100946.	4.3	11
9	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.	14.9	67
10	Room-temperature synthesis of perovskite-phase CsPbI ₃ nanocrystals for optoelectronics via a ligand-mediated strategy. <i>Chemical Engineering Journal</i> , 2021, 418, 129361.	12.7	38
11	Stabilizing electroluminescence color of blue perovskite LEDs via amine group doping. <i>Science Bulletin</i> , 2021, 66, 2189-2198.	9.0	48
12	Photodetectors Based on Perovskite Quantum Dots. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2021, , 75-117.	0.8	0
13	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.	6.3	26
14	Colloidal metal oxides in electronics and optoelectronics. , 2020, , 203-246.		3
15	A bilateral interfacial passivation strategy promoting efficiency and stability of perovskite quantum dot light-emitting diodes. <i>Nature Communications</i> , 2020, 11, 3902.	12.8	204
16	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.	4.3	16
17	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.	5.5	17
18	Perovskite light-emitting/detecting bifunctional fibres for wearable LiFi communication. <i>Light: Science and Applications</i> , 2020, 9, 163.	16.6	81

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19	Efficient Blue Perovskite Light-Emitting Diodes Boosted by 2D/3D Energy Cascade Channels. <i>Advanced Functional Materials</i> , 2020, 30, 2001732.	14.9	118
20	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.	3.7	19
21	Perovskite Nanocrystal Fluorescence-Linked Immunosorbent Assay Methodology for Sensitive Point-of-Care Biological Test. <i>Matter</i> , 2020, 3, 273-286.	10.0	46
22	Novel Lewis Base Cyclam Self-Passivation of Perovskites without an Anti-Solvent Process for Efficient Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14224-14232.	8.0	48
23	A zinc non-halide dopant strategy enables efficient perovskite CsPbI ₃ quantum dot-based light-emitting diodes. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1444-1453.	5.9	48
24	Recent advances and prospects toward blue perovskite materials and light-emitting diodes. <i>Informa Materials</i> , 2019, 1, 211-233.	17.3	84
25	51.4: <i>Invited Paper:</i> Quantum dot light-emitting diodes based on all-inorganic perovskite CsPbX ₃ . <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 569-569.	0.3	0
26	Organic composition tailored perovskite solar cells and light-emitting diodes: Perspectives and advances. <i>Materials Today Energy</i> , 2019, 14, 100338.	4.7	9
27	Synthesis of stable and phase-adjustable CsPbBr ₃ @Cs ₄ PbBr ₆ nanocrystals <i>via</i> novel anion-cation reactions. <i>Nanoscale Advances</i> , 2019, 1, 980-988.	4.6	67
28	Self-template Synthesis of Metal Halide Perovskite Nanotubes as Functional Cavities for Tailored Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21100-21108.	8.0	6
29	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.	4.6	118
30	Synthesis of Colloidal Halide Perovskite Quantum Dots/Nanocrystals: Progresses and Advances. <i>Israel Journal of Chemistry</i> , 2019, 59, 649-660.	2.3	25
31	Temperature Dependent Reflectance and Ellipsometry Studies on a CsPbBr ₃ Single Crystal. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10564-10570.	3.1	37
32	Paper 3.4: 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.	0.3	0
33	Paper 3.6: Efficiency Improvement of CsPbI ₃ Quantum dot Light Emitting Diodes via Alkyl Chain Ligand Regulation. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 970-970.	0.3	0
34	Photon-Induced Reversible Phase Transition in CsPbBr ₃ Perovskite. <i>Advanced Functional Materials</i> , 2019, 29, 1807922.	14.9	56
35	Ce ³⁺ -Doping to Modulate Photoluminescence Kinetics for Efficient CsPbBr ₃ Nanocrystals Based Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2018, 140, 3626-3634.	13.7	442
36	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.	3.7	49

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37	A Voltage-Boosting Strategy Enabling a Low-Frequency, Flexible Electromagnetic Wave Absorption Device. <i>Advanced Materials</i> , 2018, 30, e1706343.	21.0	691
38	Nanowire network-based photodetectors with imaging performance for omnidirectional photodetecting through a wire-shaped structure. <i>RSC Advances</i> , 2018, 8, 33666-33673.	3.6	12
39	Narrowband Perovskite Photodetector-Based Image Array for Potential Application in Artificial Vision. <i>Nano Letters</i> , 2018, 18, 7628-7634.	9.1	180
40	Switching excitonic recombination and carrier trapping in cesium lead halide perovskites by air. <i>Communications Physics</i> , 2018, 1, .	5.3	59
41	Stable, Efficient Red Perovskite Light-Emitting Diodes by $(\pm, \uparrow)\text{-CsPbI}_3$ Phase Engineering. <i>Advanced Functional Materials</i> , 2018, 28, 1804285.	14.9	105
42	Organic-Inorganic Hybrid Passivation Enables Perovskite QLEDs with an EQE of 16.48%. <i>Advanced Materials</i> , 2018, 30, e1805409.	21.0	409
43	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.	8.6	47
44	Room-Temperature Triple-Ligand Surface Engineering Synergistically Boosts Ink Stability, Recombination Dynamics, and Charge Injection toward EQE ~ 1.6% Perovskite QLEDs. <i>Advanced Materials</i> , 2018, 30, e1800764.	21.0	431
45	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie</i> , 2017, 129, 2430-2434.	2.0	28
46	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2390-2394.	13.8	80
47	Perovskite nanocrystals: synthesis, properties and applications. <i>Science Bulletin</i> , 2017, 62, 369-380.	9.0	96
48	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.	5.5	149
49	Ultralarge All-Inorganic Perovskite Bulk Single Crystal for High-Performance Visible-Infrared Dual-Modal Photodetectors. <i>Advanced Optical Materials</i> , 2017, 5, 1700157.	7.3	244
50	An all-inkjet-printed flexible UV photodetector. <i>Nanoscale</i> , 2017, 9, 8580-8585.	5.6	49
51	Enhancement of adjustable localized surface plasmon resonance in ZnO nanocrystals via a dual doping approach. <i>Science Bulletin</i> , 2017, 62, 693-699.	9.0	16
52	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.	13.8	75
53	Constructing Mie-Scattering Porous Interface-Fused Perovskite Films to Synergistically Boost Light Harvesting and Carrier Transport. <i>Angewandte Chemie</i> , 2017, 129, 5316-5320.	2.0	12
54	Nanowire-based transparent conductors for flexible electronics and optoelectronics. <i>Science Bulletin</i> , 2017, 62, 143-156.	9.0	57

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55	Wearable and visual pressure sensors based on Zn ₂ GeO ₄ @polypyrrole nanowire aerogels. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11018-11024.	5.5	34
56	High Performance Metal Halide Perovskite Light-Emitting Diode: From Material Design to Device Optimization. <i>Small</i> , 2017, 13, 1701770.	10.0	209
57	Recent progress of metal halide perovskite photodetectors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11369-11394.	5.5	138
58	Quantum confinement effect of two-dimensional all-inorganic halide perovskites. <i>Science China Materials</i> , 2017, 60, 811-818.	6.3	38
59	Double-Protected All-Inorganic Perovskite Nanocrystals by Crystalline Matrix and Silica for Triple-Modal Anti-Counterfeiting Codes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26556-26564.	8.0	232
60	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.	13.7	705
61	Triangle-, tripod-, and tetrapod-branched ITO nanocrystals for anisotropic infrared plasmonics. <i>Nanoscale</i> , 2017, 9, 19374-19383.	5.6	10
62	50-Fold EQE Improvement up to 6.27% of Solution-Processed All-Inorganic Perovskite CsPbBr ₃ QLEDs via Surface Ligand Density Control. <i>Advanced Materials</i> , 2017, 29, 1603885.	21.0	982
63	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.	14.9	296
64	Self-powered fiber-shaped wearable omnidirectional photodetectors. <i>Nano Energy</i> , 2016, 30, 173-179.	16.0	82
65	Improving All-Inorganic Perovskite Photodetectors by Preferred Orientation and Plasmonic Effect. <i>Small</i> , 2016, 12, 5622-5632.	10.0	314
66	Nickel concentration-dependent opto-electrical performances and stability of Cu@CuNi nanowire transparent conductors. <i>RSC Advances</i> , 2016, 6, 91394-91400.	3.6	19
67	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.	21.0	614
68	Near-Infrared Plasmonic 2D Semimetals for Applications in Communication and Biology. <i>Advanced Functional Materials</i> , 2016, 26, 1793-1802.	14.9	114
69	CsPbX ₃ 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.	14.9	2,055
70	Quantum Dots: CsPbX ₃ Quantum Dots for Lighting and Displays: Room-Temperature Synthesis, Photoluminescence Superiorities, Underlying Origins and White Light-Emitting Diodes (Adv.) <i>Tj ETQq0140rgBT /5</i>	14.9	1,000
71	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.	13.8	52
72	Nanocrystals: Quantum Dot Light-Emitting Diodes Based on Inorganic Perovskite Cesium Lead Halides (CsPbX ₃) (Adv. Mater. 44/2015). <i>Advanced Materials</i> , 2015, 27, 7161-7161.	21.0	23

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73	Carbon and Graphene Quantum Dots for Optoelectronic and Energy Devices: A Review. <i>Advanced Functional Materials</i> , 2015, 25, 4929-4947.	14.9	1,072
74	Quantum Dot Light-Emitting Diodes Based on Inorganic Perovskite Cesium Lead Halides (CsPbX ₃). <i>Advanced Materials</i> , 2015, 27, 7162-7167.	21.0	2,457
75	All-Inorganic Colloidal Perovskite Quantum Dots: A New Class of Lasing Materials with Favorable Characteristics. <i>Advanced Materials</i> , 2015, 27, 7101-7108.	21.0	1,095
76	Transparent Electrodes Printed with Nanocrystal Inks for Flexible Smart Devices. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9760-9774.	13.8	135
77	Cu ⁺ N Dopants Boost Electron Transfer and Photooxidation Reactions of Carbon Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6540-6544.	13.8	244
78	MgZnO Nanocrystals: Mechanism for Dopant-Stimulated Self-Assembly. <i>Small</i> , 2015, 11, 5097-5104.	10.0	12
79	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.	10.3	28
80	Transparent-Conducting-Oxide Nanocrystal Inks for All-Solution-Processed Devices (<i>Angew. Chem.</i>)	10.0	20
81	ZnO nanowire lines and bundles: Template-deformation-guided alignment for patterned field-electron emitters. <i>Current Applied Physics</i> , 2015, 15, 1296-1302.	2.4	6
82	Flexible quantum dot-PVA composites for white LEDs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 257-264.	5.5	41
83	Controlling oxygen vacancies and properties of ZnO. <i>Current Applied Physics</i> , 2014, 14, 521-527.	2.4	42
84	Superstable Transparent Conductive Cu ₄ Ni Nanowire Elastomer Composites against Oxidation, Bending, Stretching, and Twisting for Flexible and Stretchable Optoelectronics. <i>Nano Letters</i> , 2014, 14, 6298-6305.	9.1	262
85	High-temperature-mixing hydrothermal synthesis of ZnO nanocrystals with wide growth window. <i>Current Applied Physics</i> , 2014, 14, 359-365.	2.4	16
86	Epitaxial ZnO Nanowire-on-Nanoplate Structures as Efficient and Transferable Field Emitters. <i>Advanced Materials</i> , 2013, 25, 5750-5755.	21.0	111
87	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.	21.0	2
88	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.	2.2	24
89	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.	1.9	18
90	ZnO-Nanowires/PANI Inorganic/Organic Heterostructure Light-Emitting Diode. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7254-7257.	0.9	23

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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