Yizheng Jin

List of Publications by Year
in descending order

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106	14,916	31949	31818
papers	citations	53 h-index	101 g-index

108	108	108	15695
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solution-processed, high-performance light-emitting diodes based on quantum dots. Nature, 2014, 515, 96-99.	13.7	2,119
2	Perovskite light-emitting diodes based on spontaneously formed submicrometre-scale structures. Nature, 2018, 562, 249-253.	13.7	1,555
3	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. Nature Photonics, 2016, 10, 699-704.	15.6	1,535
4	Metal halide perovskites for light-emitting diodes. Nature Materials, 2021, 20, 10-21.	13.3	800
5	Solution-Processed Ultraviolet Photodetectors Based on Colloidal ZnO Nanoparticles. Nano Letters, 2008, 8, 1649-1653.	4.5	733
6	Interfacial Control Toward Efficient and Lowâ€Voltage Perovskite Lightâ€Emitting Diodes. Advanced Materials, 2015, 27, 2311-2316.	11.1	631
7	Quantumâ€Dot Lightâ€Emitting Diodes for Largeâ€Area Displays: Towards the Dawn of Commercialization. Advanced Materials, 2017, 29, 1607022.	11.1	620
8	Efficient blue light-emitting diodes based on quantum-confined bromide perovskite nanostructures. Nature Photonics, 2019, 13, 760-764.	15.6	483
9	Efficient planar heterojunction perovskite solar cells employing graphene oxide as hole conductor. Nanoscale, 2014, 6, 10505-10510.	2.8	352
10	Stoichiometry-Controlled InP-Based Quantum Dots: Synthesis, Photoluminescence, and Electroluminescence. Journal of the American Chemical Society, 2019, 141, 6448-6452.	6.6	282
11	Large-scale synthesis and characterization of carbon spheres prepared by direct pyrolysis of hydrocarbons. Carbon, 2005, 43, 1944-1953.	5.4	276
12	Polyurea-Functionalized Multiwalled Carbon Nanotubes:â€‰ Synthesis, Morphology, and Raman Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 11925-11932.	1.2	227
13	High-performance planar heterojunction perovskite solar cells: Preserving long charge carrier diffusion lengths and interfacial engineering. Nano Research, 2014, 7, 1749-1758.	5.8	205
14	Exciton localization in solution-processed organolead trihalide perovskites. Nature Communications, 2016, 7, 10896.	5.8	195
15	Efficient and High-Color-Purity Light-Emitting Diodes Based on In Situ Grown Films of CsPbX₃ (X = Br, I) Nanoplates with Controlled Thicknesses. ACS Nano, 2017, 11, 11100-11107.	7.3	190
16	Electrochemically-stable ligands bridge the photoluminescence-electroluminescence gap of quantum dots. Nature Communications, 2020, 11, 937.	5.8	184
17	Multihydroxy Polymer-Functionalized Carbon Nanotubes:Â Synthesis, Derivatization, and Metal Loading. Macromolecules, 2005, 38, 8634-8648.	2.2	179
18	Transparent and flexible thin films of ZnO-polystyrene nanocomposite for UV-shielding applications. Journal of Materials Chemistry, 2010, 20, 1594.	6.7	176

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19	Dopant-Induced Shape Evolution of Colloidal Nanocrystals: The Case of Zinc Oxide. Journal of the American Chemical Society, 2010, 132, 13381-13394.	6.6	174
20	Entropic Ligands for Nanocrystals: From Unexpected Solution Properties to Outstanding Processability. Nano Letters, 2016, 16, 2133-2138.	4.5	174
21	Quantum Dots for Display Applications. Angewandte Chemie - International Edition, 2020, 59, 22312-22323.	7.2	168
22	Growing Multihydroxyl Hyperbranched Polymers on the Surfaces of Carbon Nanotubes by in Situ Ring-Opening Polymerization. Macromolecules, 2004, 37, 8846-8853.	2.2	159
23	Ethanedithiol Treatment of Solutionâ€Processed ZnO Thin Films: Controlling the Intragap States of Electron Transporting Interlayers for Efficient and Stable Inverted Organic Photovoltaics. Advanced Energy Materials, 2015, 5, 1401606.	10.2	157
24	Solution-processed green and blue quantum-dot light-emitting diodes with eliminated charge leakage. Nature Photonics, 2022, 16, 505-511.	15.6	152
25	Highâ€Performance, Solutionâ€Processed, and Insulatingâ€Layerâ€Free Lightâ€Emitting Diodes Based on Colloidal Quantum Dots. Advanced Materials, 2018, 30, e1801387.	11.1	151
26	Poly(N-isopropylacrylamide)-Coated Carbon Nanotubes:Â Temperature-Sensitive Molecular Nanohybrids in Water. Macromolecules, 2004, 37, 6683-6686.	2.2	129
27	Hotâ€Electron Injection in a Sandwiched TiO_xâ€“Auâ€“TiO_x Structure for Highâ€Performance Planar Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1500038.	10.2	119
28	Flexible silver grid/PEDOT:PSS hybrid electrodes for large area inverted polymer solar cells. Nano Energy, 2014, 10, 259-267.	8.2	111
29	Lowâ€Temperature Combustionâ€Synthesized Nickel Oxide Thin Films as Holeâ€Transport Interlayers for Solutionâ€Processed Optoelectronic Devices. Advanced Energy Materials, 2014, 4, 1301460.	10.2	110
30	Electrically-driven single-photon sources based on colloidal quantum dots with near-optimal antibunching at room temperature. Nature Communications, 2017, 8, 1132.	5.8	105
31	Stable and bright formamidinium-based perovskite light-emitting diodes with high energy conversion efficiency. Nature Communications, 2019, 10, 3624.	5.8	104
32	Colloidal metal oxide nanocrystals as charge transporting layers for solution-processed light-emitting diodes and solar cells. Chemical Society Reviews, 2017, 46, 1730-1759.	18.7	99
33	Efficient and bright warm-white electroluminescence from lead-free metal halides. Nature Communications, 2021, 12, 1421.	5.8	99
34	Deciphering exciton-generation processes in quantum-dot electroluminescence. Nature Communications, 2020, 11, 2309.	5.8	96
35	Structural and optoelectronic properties of C60 rods obtained via a rapid synthesis route. Journal of Materials Chemistry, 2006, 16, 3715.	6.7	94
36	High temperature annealing effects on carbon spheres and their applications as anode materials in Li-ion secondary battery. Carbon, 2006, 44, 724-729.	5.4	85

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37	Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. Nature Communications, 2020, 11, 891.	5.8	83
38	Reproducible One-Step Fabrication of Compact MAPbI_{3â€“x}Cl_x Thin Films Derived from Mixed-Lead-Halide Precursors. Chemistry of Materials, 2014, 26, 7145-7150.	3.2	81
39	Comprehensive understanding of heat-induced degradation of triple-cation mixed halide perovskite for a robust solar cell. Nano Energy, 2018, 54, 218-226.	8.2	72
40	Morphology control of perovskite light-emitting diodes by using amino acid self-assembled monolayers. Applied Physics Letters, 2016, 108, .	1.5	69
41	High-Efficiency Red Light-Emitting Diodes Based on Multiple Quantum Wells of Phenylbutylammonium-Cesium Lead Iodide Perovskites. ACS Photonics, 2019, 6, 587-594.	3.2	69
42	Colloidal Indium-Doped Zinc Oxide Nanocrystals with Tunable Work Function: Rational Synthesis and Optoelectronic Applications. Chemistry of Materials, 2014, 26, 5169-5178.	3.2	68
43	Shelfâ€Stable Quantumâ€Dot Lightâ€Emitting Diodes with High Operational Performance. Advanced Materials, 2020, 32, e2006178.	11.1	68
44	Efficient light-emitting diodes based on oriented perovskite nanoplatelets. Science Advances, 2021, 7, eabg8458.	4.7	68
45	Low-voltage zinc oxide thin-film transistors with solution-processed channel and dielectric layers below 150â€‰Â°C. Applied Physics Letters, 2012, 101, .	1.5	66
46	Facile and large-scale synthesis and characterization of carbon nanotube/silver nanocrystal nanohybrids. Nanotechnology, 2006, 17, 2882-2890.	1.3	65
47	Simple Approaches to Quality Large-Scale Tungsten Oxide Nanoneedles. Journal of Physical Chemistry B, 2004, 108, 15572-15577.	1.2	64
48	Catalysed growth of novel aluminium oxide nanorods. Applied Physics A: Materials Science and Processing, 2003, 77, 113-115.	1.1	63
49	Inverted organic solar cells based on aqueous processed ZnO interlayers at low temperature. Applied Physics Letters, 2012, 100, 203906.	1.5	57
50	Quantitative o perando visualization of the energy band depth profile in solar cells. Nature Communications, 2015, 6, 7745.	5.8	57
51	Inverted all-polymer solar cells based on a quinoxalineâ€“thiophene/naphthalene-diimide polymer blend improved by annealing. Journal of Materials Chemistry A, 2016, 4, 3835-3843.	5.2	57
52	Colloidal chemically fabricated ZnOâ€‰:â€‰Cu-based photodetector with extended UV-visible detection waveband. Nanoscale, 2013, 5, 9577.	2.8	55
53	Control of Barrier Width in Perovskite Multiple Quantum Wells for High Performance Green Lightâ€“Emitting Diodes. Advanced Optical Materials, 2019, 7, 1801575.	3.6	55
54	Solution-Processed Zinc Oxide Thin-Film Transistors With a Low-Temperature Polymer Passivation Layer. IEEE Electron Device Letters, 2012, 33, 1420-1422.	2.2	52

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55	Highâ€Performance Quantumâ€Dot Lightâ€Emitting Diodes Using NiO‹i›‹sub›x‹/sub›‹/i› Holeâ€Injection Layers with a High and Stable Work Function. Advanced Functional Materials, 2020, 30, 1907265.	7.8	48
56	Dual-donor (Zni and VO) mediated ferromagnetism in copper-doped ZnO micron-scale polycrystalline films: a thermally driven defect modulation process. Nanoscale, 2013, 5, 3918.	2.8	46
57	Synthesis of Unstable Colloidal Inorganic Nanocrystals through the Introduction of a Protecting Ligand. Nano Letters, 2014, 14, 3117-3123.	4.5	40
58	Polymer-Grafted Carbon Spheres by Surface-Initiated Atom Transfer Radical Polymerization. Macromolecular Rapid Communications, 2005, 26, 1133-1139.	2.0	38
59	Facile synthesis and characterization of ultrathin cerium oxide nanorods. CrystEngComm, 2010, 12, 2663.	1.3	34
60	Design of the Hole-Injection/Hole-Transport Interfaces for Stable Quantum-Dot Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2020, 11, 4649-4654.	2.1	34
61	Quantum Dots for Display Applications. Angewandte Chemie, 2020, 132, 22496-22507.	1.6	33
62	Novel Route to WOxNanorods and WS2Nanotubes from WS2Inorganic Fullerenes. Journal of Physical Chemistry B, 2006, 110, 18191-18195.	1.2	32
63	Green light-emitting diodes based on hybrid perovskite films with mixed cesium and methylammonium cations. Nano Research, 2017, 10, 1329-1335.	5.8	26
64	Molecular mechanism of monodisperse colloidal tin-doped indium oxide nanocrystals by a hot-injection approach. Nanoscale Research Letters, 2013, 8, 153.	3.1	25
65	Silicon-Quantum-Dot Light-Emitting Diodes With Interlayer-Enhanced Hole Transport. IEEE Photonics Journal, 2017, 9, 1-10.	1.0	24
66	Co-catalysed VLS growth of novel ceramic nanostructuresElectronic supplementary information (ESI) available: TEM, SEM and HRTEM images for MgO, SiOx and AlOx ceramic nanomaterials. See http://www.rsc.org/suppdata/jm/b3/b312498n/. Journal of Materials Chemistry, 2004, 14, 685.	6.7	23
67	High performance solar cell based on ultra-thin poly(3-hexylthiophene): Fullerene film without thermal and solvent annealing. Applied Physics Letters, 2011, 99, .	1.5	19
68	Bandgap engineering and shape control of colloidal CdxZn1â^'xO nanocrystals. Nanoscale, 2013, 5, 6464.	2.8	19
69	ZnO-Based Electron-Transporting Layers for Perovskite Light-Emitting Diodes: Controlling the Interfacial Reactions. Journal of Physical Chemistry Letters, 2022, 13, 694-703.	2.1	19
70	Construction of Electron Transfer Network by Self-Assembly of Self-n-Doped Fullerene Ammonium Iodide. Chemistry of Materials, 2016, 28, 8726-8731.	3.2	18
71	Reduced bound exciton and surface exciton emissions in Al-doped ZnO nanorods exposed to ambient air. Journal of Applied Physics, 2008, 104, 103529.	1.1	16
72	One-Step Synthesis of Monodisperse In-Doped ZnO Nanocrystals. Nanoscale Research Letters, 2010, 5, 882-888.	3.1	16

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73	Solvent Resistant Hole-Transporting Thin Films via Diacetylene Cross-Linking and Their Applications in Solution-Processed QLEDs. ACS Applied Polymer Materials, 2020, 2, 3274-3281.	2.0	16
74	Printing and In Situ Assembly of CdSe/CdS Nanoplatelets as Uniform Films with Unity In-Plane Transition Dipole Moment. Journal of Physical Chemistry Letters, 2020, 11, 4524-4529.	2.1	15
75	Effects of rapid thermal annealing on the structural and electrical properties of Na-doped ZnMgO ï¬lms. Applied Surface Science, 2011, 257, 5927-5930.	3.1	11
76	Localized exciton emission from ZnO nanocrystalline films. Journal of Applied Physics, 2010, 107, 053524.	1.1	10
77	Synthesis and Characterization of Ultrathin Tinâ€Doped Zinc Oxide Nanowires. European Journal of Inorganic Chemistry, 2012, 2012, 4268-4272.	1.0	10
78	Comparative study of encapsulated solution-processed zinc oxide ultraviolet photodetectors with different contacts. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2184-2188.	0.8	9
79	Electrophoretic deposited oxide thin films as charge transporting interlayers for solution-processed optoelectronic devices: the case of ZnO nanocrystals. RSC Advances, 2015, 5, 8216-8222.	1.7	9
80	Inverted quantum dot light-emitting diodes with conductive interlayers of zirconium acetylacetonate. Journal of Materials Chemistry C, 2019, 7, 3154-3159.	2.7	9
81	Thiol Modification Enables ZnO-Nanocrystal Films with Atmosphere-Independent Conductance. Journal of Physical Chemistry C, 2021, 125, 20022-20027.	1.5	9
82	Solution-Processed Organic-Inorganic Hybrid Perovskites: A Class of Dream Materials Beyond Photovoltaic Applications. Acta Chimica Sinica, 2015, 73, 171.	0.5	9
83	Ligand Exchange of Colloidal ZnO Nanocrystals from the High Temperature and Nonaqueous Approach. Nano-Micro Letters, 2013, 5, 274-280.	14.4	8
84	On the accurate characterization of quantum-dot light-emitting diodes for display applications. Npj Flexible Electronics, 2022, 6, .	5.1	8
85	Vertical phase segregation of hybrid poly(3-hexylthiophene) and fullerene derivative composites controlled via velocity of solvent drying. Semiconductor Science and Technology, 2011, 26, 034009.	1.0	7
86	Doped Colloidal ZnO Nanocrystals. Journal of Nanomaterials, 2012, 2012, 1-8.	1.5	7
87	Synthesis of Highly Monodisperse Cu₂O Nanocrystals and Their Applications as Holeâ€Transporting Layers in Solutionâ€Processed Lightâ€Emitting Diodes. Chemistry - A European Journal, 2019, 25, 14767-14770.	1.7	7
88	Solvent-Vapor Atmosphere Controls the in Situ Crystallization of Perovskites. , 2021, 3, 1172-1180.		7
89	A quantitative study of chemical kinetics for the synthesis of doped oxide nanocrystals using FTIR. Scientific Reports, 2015, 4, 4353.	1.6	6
90	Synthesis and Characterization of Highly Faceted (Zn,Cd)O Nanorods with Nonhexagonal Cross Sections. Crystal Growth and Design, 2009, 9, 5043-5048.	1.4	5

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91	Epitaxial growth of large-grain-size ferromagnetic monolayer CrI₃ for valley Zeeman splitting enhancement. Nanoscale, 2021, 13, 2955-2962.	2.8	5
92	Synthesis of Cuâ€Modified Nickel Oxide Nanocrystals and Their Applications as Holeâ€Injection layers for Quantumâ€Dot Lightâ€Emitting Diodes. Chemistry - A European Journal, 2021, 27, 11298-11302.	1.7	5
93	Quantum-dot light-emitting diodes with Fermi-level pinning at the hole-injection/hole-transporting interfaces. Nano Research, 2022, 15, 7453-7459.	5.8	5
94	Multifunctional ZnO interfaces with hierarchical micro- andÂnanostructures: bio-inspiration from the compound eyes ofÂbutterflies. Applied Physics A: Materials Science and Processing, 2010, 100, 57-61.	1.1	4
95	Effects of oxygen plasma treatment on the surface properties of Ga-doped ZnO thin films. Applied Physics A: Materials Science and Processing, 2014, 114, 509-513.	1.1	4
96	Rational synthesis and characterization of heterostructures of ZnO nanocombs with (Zn,Cd)O nanocaps. Journal Physics D: Applied Physics, 2008, 41, 115410.	1.3	3
97	Perovskite Solar Cells: Hot-Electron Injection in a Sandwiched TiOx-Au-TiOxStructure for High-Performance Planar Perovskite Solar Cells (Adv. Energy Mater. 10/2015). Advanced Energy Materials, 2015, 5, .	10.2	3
98	Plasmonic Metal Oxide Nanocrystals via Surface Anchoring of Redox-Active Phosphorus Species. Chemistry of Materials, 2021, 33, 5290-5297.	3.2	3
99	Low-temperature and solution-processed indium tin oxide films and their applications in flexible transparent capacitive pressure sensors. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	2
100	Materials Chemistry at Zhejiang University. Advanced Materials, 2017, 29, 1700805.	11.1	2
101	An important step towards commercialization of quantum-dot light-emitting diode displays. Science China Chemistry, 2017, 60, 1324-1325.	4.2	2
102	Thin Films: Ethanedithiol Treatment of Solution-Processed ZnO Thin Films: Controlling the Intragap States of Electron Transporting Interlayers for Efficient and Stable Inverted Organic Photovoltaics (Adv. Energy Mater. 5/2015). Advanced Energy Materials, 2015, 5, n/a-n/a.	10.2	1
103	Synthesis and characterization of ultrathin single-crystalline cerium oxide nanorods. , 2010, , .		0
104	Optoelectronic Devices: Lowâ€Temperature Combustionâ€Synthesized Nickel Oxide Thin Films as Holeâ€Transport Interlayers for Solutionâ€Processed Optoelectronic Devices (Adv. Energy Mater. 6/2014). Advanced Energy Materials, 2014, 4, .	10.2	0
105	Syntheses and characterizations of alloyed Co x Ni1â^'x O nanocrystals. Journal of Zhejiang University: Science A, 2017, 18, 306-312.	1.3	0
106	30.1: Invited Paper: Towards Highâ€Performance Solutionâ€Processed Lightâ€Emitting Didoes Based on Quantum Dots. Digest of Technical Papers SID International Symposium, 2021, 52, 407-407.	0.1	0