

Yizheng Jin

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101
papers

11,231
citations

47
h-index

105
g-index

108
ext. papers

12,979
ext. citations

11.6
avg, IF

6.27
L-index

#	Paper	IF	Citations
101	Solution-processed, high-performance light-emitting diodes based on quantum dots. <i>Nature</i> , 2014 , 515, 96-9	50.4	1656
100	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. <i>Nature Photonics</i> , 2016 , 10, 699-704	33.9	1206
99	Perovskite light-emitting diodes based on spontaneously formed submicrometre-scale structures. <i>Nature</i> , 2018 , 562, 249-253	50.4	1116
98	Solution-processed ultraviolet photodetectors based on colloidal ZnO nanoparticles. <i>Nano Letters</i> , 2008 , 8, 1649-53	11.5	666
97	Interfacial control toward efficient and low-voltage perovskite light-emitting diodes. <i>Advanced Materials</i> , 2015 , 27, 2311-6	24	559
96	Quantum-Dot Light-Emitting Diodes for Large-Area Displays: Towards the Dawn of Commercialization. <i>Advanced Materials</i> , 2017 , 29, 1607022	24	457
95	Metal halide perovskites for light-emitting diodes. <i>Nature Materials</i> , 2021 , 20, 10-21	27	322
94	Efficient planar heterojunction perovskite solar cells employing graphene oxide as hole conductor. <i>Nanoscale</i> , 2014 , 6, 10505-10	7.7	315
93	Efficient blue light-emitting diodes based on quantum-confined bromide perovskite nanostructures. <i>Nature Photonics</i> , 2019 , 13, 760-764	33.9	313
92	Large-scale synthesis and characterization of carbon spheres prepared by direct pyrolysis of hydrocarbons. <i>Carbon</i> , 2005 , 43, 1944-1953	10.4	249
91	Polyurea-functionalized multiwalled carbon nanotubes: synthesis, morphology, and Raman spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11925-32	3.4	213
90	Stoichiometry-Controlled InP-Based Quantum Dots: Synthesis, Photoluminescence, and Electroluminescence. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6448-6452	16.4	184
89	High-performance planar heterojunction perovskite solar cells: Preserving long charge carrier diffusion lengths and interfacial engineering. <i>Nano Research</i> , 2014 , 7, 1749-1758	10	180
88	Multihydroxy Polymer-Functionalized Carbon Nanotubes: Synthesis, Derivatization, and Metal Loading. <i>Macromolecules</i> , 2005 , 38, 8634-8648	5.5	167
87	Dopant-induced shape evolution of colloidal nanocrystals: the case of zinc oxide. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13381-94	16.4	165
86	Exciton localization in solution-processed organolead trihalide perovskites. <i>Nature Communications</i> , 2016 , 7, 10896	17.4	163
85	Efficient and High-Color-Purity Light-Emitting Diodes Based on In Situ Grown Films of CsPbX (X = Br, I) Nanoplates with Controlled Thicknesses. <i>ACS Nano</i> , 2017 , 11, 11100-11107	16.7	153

84	Transparent and flexible thin films of ZnO-polystyrene nanocomposite for UV-shielding applications. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1594		153
83	Growing Multihydroxyl Hyperbranched Polymers on the Surfaces of Carbon Nanotubes by in Situ Ring-Opening Polymerization. <i>Macromolecules</i> , 2004 , 37, 8846-8853	5.5	149
82	Poly(N-isopropylacrylamide)-Coated Carbon Nanotubes: Temperature-Sensitive Molecular Nanohybrids in Water. <i>Macromolecules</i> , 2004 , 37, 6683-6686	5.5	124
81	Ethanedithiol Treatment of Solution-Processed ZnO Thin Films: Controlling the Intragap States of Electron Transporting Interlayers for Efficient and Stable Inverted Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2015 , 5, 1401606	21.8	121
80	Entropic Ligands for Nanocrystals: From Unexpected Solution Properties to Outstanding Processability. <i>Nano Letters</i> , 2016 , 16, 2133-8	11.5	120
79	Flexible silver grid/PEDOT:PSS hybrid electrodes for large area inverted polymer solar cells. <i>Nano Energy</i> , 2014 , 10, 259-267	17.1	103
78	Hot-Electron Injection in a Sandwiched TiO ₂ /Au/TiO ₂ Structure for High-Performance Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500038	21.8	100
77	High-Performance, Solution-Processed, and Insulating-Layer-Free Light-Emitting Diodes Based on Colloidal Quantum Dots. <i>Advanced Materials</i> , 2018 , 30, e1801387	24	100
76	Low-Temperature Combustion-Synthesized Nickel Oxide Thin Films as Hole-Transport Interlayers for Solution-Processed Optoelectronic Devices. <i>Advanced Energy Materials</i> , 2014 , 4, 1301460	21.8	97
75	Structural and optoelectronic properties of C60 rods obtained via a rapid synthesis route. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3715		92
74	Electrochemically-stable ligands bridge the photoluminescence-electroluminescence gap of quantum dots. <i>Nature Communications</i> , 2020 , 11, 937	17.4	83
73	Colloidal metal oxide nanocrystals as charge transporting layers for solution-processed light-emitting diodes and solar cells. <i>Chemical Society Reviews</i> , 2017 , 46, 1730-1759	58.5	77
72	High temperature annealing effects on carbon spheres and their applications as anode materials in Li-ion secondary battery. <i>Carbon</i> , 2006 , 44, 724-729	10.4	77
71	Reproducible One-Step Fabrication of Compact MAPbI ₃ /Cl _x Thin Films Derived from Mixed-Lead-Halide Precursors. <i>Chemistry of Materials</i> , 2014 , 26, 7145-7150	9.6	76
70	Electrically-driven single-photon sources based on colloidal quantum dots with near-optimal antibunching at room temperature. <i>Nature Communications</i> , 2017 , 8, 1132	17.4	74
69	Quantum Dots for Display Applications. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22312-22323	36.4	70
68	Stable and bright formamidinium-based perovskite light-emitting diodes with high energy conversion efficiency. <i>Nature Communications</i> , 2019 , 10, 3624	17.4	68
67	Low-voltage zinc oxide thin-film transistors with solution-processed channel and dielectric layers below 150 °C. <i>Applied Physics Letters</i> , 2012 , 101, 222114	3.4	63

66	Colloidal Indium-Doped Zinc Oxide Nanocrystals with Tunable Work Function: Rational Synthesis and Optoelectronic Applications. <i>Chemistry of Materials</i> , 2014 , 26, 5169-5178	9.6	62
65	Facile and large-scale synthesis and characterization of carbon nanotube/silver nanocrystal nanohybrids. <i>Nanotechnology</i> , 2006 , 17, 2882-2890	3.4	61
64	Simple Approaches to Quality Large-Scale Tungsten Oxide Nanoneedles. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15572-15577	3.4	61
63	Catalysed growth of novel aluminium oxide nanorods. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 77, 113-115	2.6	57
62	Morphology control of perovskite light-emitting diodes by using amino acid self-assembled monolayers. <i>Applied Physics Letters</i> , 2016 , 108, 141102	3.4	55
61	Quantitative operando visualization of the energy band depth profile in solar cells. <i>Nature Communications</i> , 2015 , 6, 7745	17.4	52
60	Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. <i>Nature Communications</i> , 2020 , 11, 891	17.4	52
59	Inverted all-polymer solar cells based on a quinoxaline-phenylene/naphthalene-diimide polymer blend improved by annealing. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3835-3843	13	51
58	Colloidal chemically fabricated ZnO : Cu-based photodetector with extended UV-visible detection waveband. <i>Nanoscale</i> , 2013 , 5, 9577-81	7.7	50
57	Solution-Processed Zinc Oxide Thin-Film Transistors With a Low-Temperature Polymer Passivation Layer. <i>IEEE Electron Device Letters</i> , 2012 , 33, 1420-1422	4.4	50
56	Inverted organic solar cells based on aqueous processed ZnO interlayers at low temperature. <i>Applied Physics Letters</i> , 2012 , 100, 203906	3.4	48
55	Comprehensive understanding of heat-induced degradation of triple-cation mixed halide perovskite for a robust solar cell. <i>Nano Energy</i> , 2018 , 54, 218-226	17.1	47
54	High-Efficiency Red Light-Emitting Diodes Based on Multiple Quantum Wells of Phenylbutylammonium-Cesium Lead Iodide Perovskites. <i>ACS Photonics</i> , 2019 , 6, 587-594	6.3	44
53	Deciphering exciton-generation processes in quantum-dot electroluminescence. <i>Nature Communications</i> , 2020 , 11, 2309	17.4	42
52	Dual-donor (Zn(i) and V(O)) mediated ferromagnetism in copper-doped ZnO micron-scale polycrystalline films: a thermally driven defect modulation process. <i>Nanoscale</i> , 2013 , 5, 3918-30	7.7	41
51	Control of Barrier Width in Perovskite Multiple Quantum Wells for High Performance Green Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2019 , 7, 1801575	8.1	40
50	Efficient and bright warm-white electroluminescence from lead-free metal halides. <i>Nature Communications</i> , 2021 , 12, 1421	17.4	38
49	Polymer-Grafted Carbon Spheres by Surface-Initiated Atom Transfer Radical Polymerization. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 1133-1139	4.8	35

48	Synthesis of unstable colloidal inorganic nanocrystals through the introduction of a protecting ligand. <i>Nano Letters</i> , 2014 , 14, 3117-23	11.5	33
47	Facile synthesis and characterization of ultrathin cerium oxide nanorods. <i>CrystEngComm</i> , 2010 , 12, 2663-33	3.3	31
46	Novel route to WO _x nanorods and WS ₂ nanotubes from WS ₂ inorganic fullerenes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 18191-5	3.4	30
45	Green light-emitting diodes based on hybrid perovskite films with mixed cesium and methylammonium cations. <i>Nano Research</i> , 2017 , 10, 1329-1335	10	23
44	Efficient light-emitting diodes based on oriented perovskite nanoplatelets. <i>Science Advances</i> , 2021 , 7, eabg8458	14.3	23
43	Molecular mechanism of monodisperse colloidal tin-doped indium oxide nanocrystals by a hot-injection approach. <i>Nanoscale Research Letters</i> , 2013 , 8, 153	5	22
42	High-Performance Quantum-Dot Light-Emitting Diodes Using NiO _x Hole-Injection Layers with a High and Stable Work Function. <i>Advanced Functional Materials</i> , 2020 , 30, 1907265	15.6	22
41	Silicon-Quantum-Dot Light-Emitting Diodes With Interlayer-Enhanced Hole Transport. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-10	1.8	21
40	Co-catalysed VLS growth of novel ceramic nanostructures. <i>Journal of Materials Chemistry</i> , 2004 , 14, 685		21
39	High performance solar cell based on ultra-thin poly(3-hexylthiophene): Fullerene film without thermal and solvent annealing. <i>Applied Physics Letters</i> , 2011 , 99, 143306	3.4	19
38	Shelf-Stable Quantum-Dot Light-Emitting Diodes with High Operational Performance. <i>Advanced Materials</i> , 2020 , 32, e2006178	24	19
37	Bandgap engineering and shape control of colloidal Cd(x)Zn(1-x)O nanocrystals. <i>Nanoscale</i> , 2013 , 5, 6464-8	4.8	16
36	Construction of Electron Transfer Network by Self-Assembly of Self-n-Doped Fullerene Ammonium Iodide. <i>Chemistry of Materials</i> , 2016 , 28, 8726-8731	9.6	15
35	One-Step Synthesis of Monodisperse In-Doped ZnO Nanocrystals. <i>Nanoscale Research Letters</i> , 2010 , 5, 882-8	5	15
34	Reduced bound exciton and surface exciton emissions in Al-doped ZnO nanorods exposed to ambient air. <i>Journal of Applied Physics</i> , 2008 , 104, 103529	2.5	15
33	Quantum Dots for Display Applications. <i>Angewandte Chemie</i> , 2020 , 132, 22496-22507	3.6	14
32	Printing and Assembly of CdSe/CdS Nanoplatelets as Uniform Films with Unity In-Plane Transition Dipole Moment. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4524-4529	6.4	11
31	Design of the Hole-Injection/Hole-Transport Interfaces for Stable Quantum-Dot Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4649-4654	6.4	10

30	Effects of rapid thermal annealing on the structural and electrical properties of Na-doped ZnMgO films. <i>Applied Surface Science</i> , 2011 , 257, 5927-5930	6.7	10
29	Comparative study of encapsulated solution-processed zinc oxide ultraviolet photodetectors with different contacts. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2184-2188	1.6	9
28	Localized exciton emission from ZnO nanocrystalline films. <i>Journal of Applied Physics</i> , 2010 , 107, 053524	2.5	9
27	Solvent Resistant Hole-Transporting Thin Films via Diacetylene Cross-Linking and Their Applications in Solution-Processed QLEDs. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 3274-3281	4.3	9
26	Electrophoretic deposited oxide thin films as charge transporting interlayers for solution-processed optoelectronic devices: the case of ZnO nanocrystals. <i>RSC Advances</i> , 2015 , 5, 8216-8222	3.7	8
25	Synthesis and Characterization of Ultrathin Tin-Doped Zinc Oxide Nanowires. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 4268-4272	2.3	8
24	Organometal Halide Perovskites for Photovoltaic Applications 2015 , 535-566		7
23	Vertical phase segregation of hybrid poly(3-hexylthiophene) and fullerene derivative composites controlled via velocity of solvent drying. <i>Semiconductor Science and Technology</i> , 2011 , 26, 034009	1.8	7
22	Solution-Processed Organic-Inorganic Hybrid Perovskites: A Class of Dream Materials Beyond Photovoltaic Applications. <i>Acta Chimica Sinica</i> , 2015 , 73, 171	3.3	7
21	A quantitative study of chemical kinetics for the synthesis of doped oxide nanocrystals using FTIR. <i>Scientific Reports</i> , 2014 , 4, 4353	4.9	6
20	Ligand Exchange of Colloidal ZnO Nanocrystals from the High Temperature and Nonaqueous Approach. <i>Nano-Micro Letters</i> , 2013 , 5, 274-280	19.5	6
19	Synthesis and Characterization of Highly Faceted (Zn,Cd)O Nanorods with Nonhexagonal Cross Sections. <i>Crystal Growth and Design</i> , 2009 , 9, 5043-5048	3.5	5
18	Doped Colloidal ZnO Nanocrystals. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-8	3.2	5
17	Inverted quantum dot light-emitting diodes with conductive interlayers of zirconium acetylacetonate. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3154-3159	7.1	5
16	Synthesis of Highly Monodisperse Cu O Nanocrystals and Their Applications as Hole-Transporting Layers in Solution-Processed Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2019 , 25, 14767-14770	4.8	4
15	Multifunctional ZnO interfaces with hierarchical micro- and nanostructures: bio-inspiration from the compound eyes of butterflies. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 57-61	2.6	4
14	Perovskite Solar Cells: Hot-Electron Injection in a Sandwiched TiO ₂ /Au/TiO ₂ Structure for High-Performance Planar Perovskite Solar Cells (Adv. Energy Mater. 10/2015). <i>Advanced Energy Materials</i> , 2015 , 5,	21.8	3
13	Rational synthesis and characterization of heterostructures of ZnO nanocombs with (Zn,Cd)O nanocaps. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 115410	3	3

12	Epitaxial growth of large-grain-size ferromagnetic monolayer CrI for valley Zeeman splitting enhancement. <i>Nanoscale</i> , 2021 , 13, 2955-2962	7.7	3
11	Effects of oxygen plasma treatment on the surface properties of Ga-doped ZnO thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 114, 509-513	2.6	2
10	ZnO-Based Electron-Transporting Layers for Perovskite Light-Emitting Diodes: Controlling the Interfacial Reactions.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 694-703	6.4	2
9	Solvent-Vapor Atmosphere Controls the in Situ Crystallization of Perovskites 2021 , 3, 1172-1180		2
8	Quantum-dot light-emitting diodes with Fermi-level pinning at the hole-injection/hole-transporting interfaces. <i>Nano Research</i> ,1	10	2
7	Synthesis of Cu-Modified Nickel Oxide Nanocrystals and Their Applications as Hole-Injection layers for Quantum-Dot Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2021 , 27, 11298-11302	4.8	1
6	Low-temperature and solution-processed indium tin oxide films and their applications in flexible transparent capacitive pressure sensors. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	1
5	Plasmonic Metal Oxide Nanocrystals via Surface Anchoring of Redox-Active Phosphorus Species. <i>Chemistry of Materials</i> , 2021 , 33, 5290-5297	9.6	1
4	An important step towards commercialization of quantum-dot light-emitting diode displays. <i>Science China Chemistry</i> , 2017 , 60, 1324-1325	7.9	0
3	Thiol Modification Enables ZnO-Nanocrystal Films with Atmosphere-Independent Conductance. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20022-20027	3.8	0
2	Syntheses and characterizations of alloyed Co x Ni1-x O nanocrystals. <i>Journal of Zhejiang University: Science A</i> , 2017 , 18, 306-312	2.1	
1	30.1: Invited Paper: Towards High-Performance Solution-Processed Light-Emitting Didoes Based on Quantum Dots. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 407-407	0.5	