

Zhuoying Chen

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,725
citations

257450

24
h-index

206112

48
g-index

53
all docs

53
docs citations

53
times ranked

6266
citing authors

#	ARTICLE	IF	CITATIONS
1	Thieno[3,2- <i>b</i>]thiophene-Diketopyrrolopyrrole-Containing Polymers for High-Performance Organic Field-Effect Transistors and Organic Photovoltaic Devices. <i>Journal of the American Chemical Society</i> , 2011, 133, 3272-3275.	13.7	854
2	High-Performance Ambipolar Diketopyrrolopyrrole-Thieno[3,2- <i>b</i>]thiophene Copolymer Field-Effect Transistors with Balanced Hole and Electron Mobilities. <i>Advanced Materials</i> , 2012, 24, 647-652.	21.0	521
3	Real-Time Observation of Organic Cation Reorientation in Methylammonium Lead Iodide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3663-3669.	4.6	322
4	Quasi-2D Colloidal Semiconductor Nanoplatelets for Narrow Electroluminescence. <i>Advanced Functional Materials</i> , 2014, 24, 295-302.	14.9	208
5	High Mobility Ambipolar Charge Transport in Polyselenophene Conjugated Polymers. <i>Advanced Materials</i> , 2010, 22, 2371-2375.	21.0	178
6	Plasmonic-enhanced perovskite-graphene hybrid photodetectors. <i>Nanoscale</i> , 2016, 8, 7377-7383.	5.6	144
7	Structure Direction of II-VI Semiconductor Quantum Dot Binary Nanoparticle Superlattices by Tuning Radius Ratio. <i>ACS Nano</i> , 2008, 2, 1219-1229.	14.6	135
8	Silindacenodithiophene Semiconducting Polymers for Efficient Solar Cells and High-Mobility Ambipolar Transistors. <i>Chemistry of Materials</i> , 2011, 23, 768-770.	6.7	126
9	Binary Nanoparticle Superlattices in the Semiconductor-Semiconductor System: CdTe and CdSe. <i>Journal of the American Chemical Society</i> , 2007, 129, 15702-15709.	13.7	122
10	Barium titanate nanocrystals and nanocrystal thin films: Synthesis, ferroelectricity, and dielectric properties. <i>Journal of Applied Physics</i> , 2006, 100, 034316.	2.5	120
11	Organic Cation Rotation and Immobilization in Pure and Mixed Methylammonium Lead-Halide Perovskites. <i>Journal of the American Chemical Society</i> , 2017, 139, 4068-4074.	13.7	114
12	Charge Trapping Dynamics in PbS Colloidal Quantum Dot Photovoltaic Devices. <i>ACS Nano</i> , 2013, 7, 8771-8779.	14.6	78
13	Effect of Ion Migration-Induced Electrode Degradation on the Operational Stability of Perovskite Solar Cells. <i>ACS Omega</i> , 2018, 3, 10042-10047.	3.5	76
14	Revealing Crystallization Dynamics and the Compositional Control Mechanism of 2D Perovskite Film Growth by In Situ Synchrotron-Based GIXRD. <i>ACS Energy Letters</i> , 2020, 5, 8-16.	17.4	68
15	Enhancing the Efficiency and Stability of Triple-Cation Perovskite Solar Cells by Eliminating Excess PbI ₂ from the Perovskite/Hole Transport Layer Interface. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54824-54832.	8.0	56
16	Metal Acetylacetonates as General Precursors for the Synthesis of Early Transition Metal Oxide Nanomaterials. <i>Journal of Nanomaterials</i> , 2007, 2007, 1-7.	2.7	44
17	Reduced Carrier Recombination in PbS - CuInS ₂ Quantum Dot Solar Cells. <i>Scientific Reports</i> , 2015, 5, 10626.	3.3	44
18	Optimized Conditions for the Self-Organization of CdSe-Au and CdSe-CdSe Binary Nanoparticle Superlattices. <i>Chemistry of Materials</i> , 2008, 20, 3594-3600.	6.7	39

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19	Origin of the different transport properties of electron and hole polarons in an ambipolar polyselenophene-based conjugated polymer. <i>Physical Review B</i> , 2011, 84, .	3.2	39
20	Multifunctional materials for OFETs, LEFETs and NIR PLEDs. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5133-5141.	5.5	38
21	TiO ₂ Nanocolumn Arrays for More Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5979-5989.	8.0	36
22	Microscopic Evidence of Upconversion-Induced Near-Infrared Light Harvest in Hybrid Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 3537-3543.	5.1	35
23	Compact layer free mixed-cation lead mixed-halide perovskite solar cells. <i>Chemical Communications</i> , 2018, 54, 2623-2626.	4.1	27
24	Ligand dependent oxidation dictates the performance evolution of high efficiency PbS quantum dot solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 108-115.	4.9	27
25	W ^{1/4} stite nanocrystals: Synthesis, structure and superlattice formation. <i>Journal of Materials Research</i> , 2007, 22, 1987-1995.	2.6	24
26	The effect of ionic composition on acoustic phonon speeds in hybrid perovskites from Brillouin spectroscopy and density functional theory. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3861-3868.	5.5	23
27	Electrooptical Spectroscopy of Uniaxially Aligned Polythiophene Films in Field-Effect Transistors. <i>Chemistry of Materials</i> , 2013, 25, 2075-2082.	6.7	22
28	Enhanced charge transport by incorporating additional thiophene units in the poly(fluorene-thienyl-benzothiadiazole) polymer. <i>Organic Electronics</i> , 2011, 12, 461-471.	2.6	21
29	Optical, structural, and electrical properties of PEDOT:PSS thin films doped with silver nanoprisms. <i>Optical Materials Express</i> , 2014, 4, 2525.	3.0	20
30	Flexible and wearable plasmonic-enabled organic/inorganic hybrid photothermoelectric generators. <i>Materials Today Energy</i> , 2021, 22, 100859.	4.7	20
31	Nanoscale thermometry with fluorescent yttrium-based Er/Yb-doped fluoride nanocrystals. <i>Sensors and Actuators A: Physical</i> , 2016, 250, 71-77.	4.1	19
32	Short-Wave Infrared Sensor by the Photothermal Effect of Colloidal Gold Nanorods. <i>Small</i> , 2018, 14, e1704013.	10.0	16
33	New nonhydrolytic route to synthesize crystalline BaTiO ₃ nanocrystals with surface capping ligands. <i>Journal of Materials Research</i> , 2006, 21, 3187-3195.	2.6	13
34	Fluorescence enhancement near single TiO ₂ nanodisks. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	13
35	Heavy-Metal-Free Flexible Hybrid Polymer-Nanocrystal Photodetectors Sensitive to 1.5 μ m Wavelength. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42571-42579.	8.0	12
36	(100) MgAl ₂ O ₄ as a lattice-matched substrate for the epitaxial thin film deposition of the relaxor ferroelectric PMN-PT. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 187-194.	2.3	9

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37	Nanoscale thermal characterization of high aspect ratio gold nanorods for photothermal applications at $\lambda = 1.55 \mu\text{m}$. Journal of Applied Physics, 2019, 125, .	2.5	9
38	Probing charge transfer states at organic and hybrid internal interfaces by photothermal deflection spectroscopy. Journal of Physics Condensed Matter, 2019, 31, 124001.	1.8	9
39	Long-Term Stable Near-Infrared "Short-Wave-Infrared Photodetector Driven by the Photothermal Effect of Polypyrrole Nanostructures. ACS Applied Materials & Interfaces, 2021, 13, 45957-45965.	8.0	9
40	Mapping plasmon-enhanced upconversion fluorescence of Er/Yb-doped nanocrystals near gold nanodisks. Nanoscale, 2019, 11, 10365-10371.	5.6	8
41	Hybrid plasmonic gold-nanorod "platinum short-wave infrared photodetectors with fast response. Nanoscale, 2019, 11, 18124-18131.	5.6	7
42	Upconversion nanoparticles extending the spectral sensitivity of silicon photodetectors to $\lambda = 1.55 \mu\text{m}$. Nanotechnology, 2020, 31, 495201.	2.6	4
43	Plasmon Coupled Colloidal Gold Nanorods for Near-Infrared and Short-Wave-Infrared Broadband Photodetection. Advanced Materials Technologies, 2022, 7, .	5.8	4
44	Ultrafast infrared spectroscopy reveals intragap states in methylammonium lead iodide perovskite materials. Proceedings of SPIE, 2014, , .	0.8	3
45	Thermal conductivity and diffusivity of triple-cation perovskite halide materials for solar cells. Journal of Applied Physics, 2020, 127, .	2.5	3
46	Luminescence enhancement effects on nanostructured perovskite thin films for Er/Yb-doped solar cells. Nanoscale Advances, 2022, 4, 1786-1792.	4.6	2
47	Colloidal upconversion nanocrystals enable low-temperature-grown GaAs photoconductive switch operating at $\lambda = 1.55 \mu\text{m}$. Nanotechnology, 2021, 32, 45LT01.	2.6	1
48	Microscopic Characterizations of Upconversion-Induced Near-Infrared Light Harvest in Hybrid Perovskite Solar Cells. Microscopy and Microanalysis, 2019, 25, 2134-2135.	0.4	0
49	Direct imaging of fluorescence enhancement in the gap between two gold nanodisks. Applied Physics Letters, 2021, 118, 161105.	3.3	0
50	Ultrafast Optical Control of Charge Dynamics in Organic and Hybrid Electronic Nanodevices. , 2014, , .		0