

He Huang

List of Publications by Year in descending order

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52
papers

5,981
citations

156536

32
h-index

206121

51
g-index

55
all docs

55
docs citations

55
times ranked

8928
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead Halide Perovskite Nanocrystals in the Research Spotlight: Stability and Defect Tolerance. ACS Energy Letters, 2017, 2, 2071-2083.	8.8	888
2	Enhancing the Brightness of Cesium Lead Halide Perovskite Nanocrystal Based Green Light-Emitting Devices through the Interface Engineering with Perfluorinated Ionomer. Nano Letters, 2016, 16, 1415-1420.	4.5	685
3	Control of Emission Color of High Quantum Yield $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Perovskite Quantum Dots by Precipitation Temperature. Advanced Science, 2015, 2, 1500194.	5.6	536
4	Water resistant CsPbX_3 nanocrystals coated with polyhedral oligomeric silsesquioxane and their use as solid state luminophores in all-perovskite white light-emitting devices. Chemical Science, 2016, 7, 5699-5703.	3.7	499
5	Cutting sp^2 clusters in graphene sheets into colloidal graphene quantum dots with strong green fluorescence. Journal of Materials Chemistry, 2012, 22, 3314.	6.7	423
6	Colloidal lead halide perovskite nanocrystals: synthesis, optical properties and applications. NPG Asia Materials, 2016, 8, e328-e328.	3.8	385
7	Neutral and Charged Exciton Fine Structure in Single Lead Halide Perovskite Nanocrystals Revealed by Magneto-optical Spectroscopy. Nano Letters, 2017, 17, 2895-2901.	4.5	216
8	Growth mechanism of strongly emitting $\text{CH}_3\text{NH}_3\text{PbBr}_3$ perovskite nanocrystals with a tunable bandgap. Nature Communications, 2017, 8, 996.	5.8	210
9	Twinning in metastable high-entropy alloys. Nature Communications, 2018, 9, 2381.	5.8	155
10	Room-Temperature Solution-Processed $\text{NiO}_x\text{:PbI}_2$ Nanocomposite Structures for Realizing High-Performance Perovskite Photodetectors. ACS Nano, 2016, 10, 6808-6815.	7.3	122
11	Advances in metal halide perovskite nanocrystals: Synthetic strategies, growth mechanisms, and optoelectronic applications. Materials Today, 2020, 32, 204-221.	8.3	114
12	Revealing the Formation Mechanism of CsPbBr_3 Perovskite Nanocrystals Produced via a Slowed-Down Microwave-Assisted Synthesis. Angewandte Chemie - International Edition, 2018, 57, 5833-5837.	7.2	109
13	Polyhedral Oligomeric Silsesquioxane Enhances the Brightness of Perovskite Nanocrystal-Based Green Light-Emitting Devices. Journal of Physical Chemistry Letters, 2016, 7, 4398-4404.	2.1	105
14	Top-Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. Angewandte Chemie - International Edition, 2017, 56, 9571-9576.	7.2	98
15	Spontaneous Crystallization of Perovskite Nanocrystals in Nonpolar Organic Solvents: A Versatile Approach for their Shape-Controlled Synthesis. Angewandte Chemie - International Edition, 2019, 58, 16558-16562.	7.2	96
16	Using Polar Alcohols for the Direct Synthesis of Cesium Lead Halide Perovskite Nanorods with Anisotropic Emission. ACS Nano, 2019, 13, 8237-8245.	7.3	84
17	Carbonization conditions influence the emission characteristics and the stability against photobleaching of nitrogen doped carbon dots. Nanoscale, 2017, 9, 11730-11738.	2.8	83
18	Dextran Sulfate Lithium as Versatile Binder to Stabilize High-Voltage LiCoO_2 to 4.6 V. Advanced Energy Materials, 2021, 11, 2101864.	10.2	80

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19	Chemical Cutting of Perovskite Nanowires into Single-Photon Emissive Low-Aspect-Ratio CsPbX ₃ (X=Cl, Br, I) Nanorods. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16094-16098.	7.2	79
20	C-axis preferentially oriented and fully activated TiO ₂ nanotube arrays for lithium ion batteries and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11454-11464.	5.2	75
21	Nearly monodisperse graphene quantum dots fabricated by amine-assisted cutting and ultrafiltration. <i>Nanoscale</i> , 2013, 5, 12098.	2.8	73
22	Excitons and Biexciton Dynamics in Single CsPbBr ₃ Perovskite Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6934-6940.	2.1	73
23	Templated Assembly of CsPbBr ₃ Perovskite Nanocrystals into 2D Photonic Supercrystals with Amplified Spontaneous Emission. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17750-17756.	7.2	72
24	Manganese-Doping-Induced Quantum Confinement within Host Perovskite Nanocrystals through Ruddlesden-Popper Defects. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6794-6799.	7.2	72
25	Transfer of Direct to Indirect Bound Excitons by Electron Intervalley Scattering in Cs ₂ AgBiBr ₆ Double Perovskite Nanocrystals. <i>ACS Nano</i> , 2020, 14, 5855-5861.	7.3	58
26	Coherent vibrational dynamics reveals lattice anharmonicity in organic-inorganic halide perovskite nanocrystals. <i>Nature Communications</i> , 2021, 12, 2629.	5.8	58
27	Reversible transformation between CsPbBr ₃ and Cs ₄ PbBr ₆ nanocrystals. <i>CrystEngComm</i> , 2018, 20, 4900-4904.	1.3	48
28	Ternary Sn-Ti-O Based Nanostructures as Anodes for Lithium Ion Batteries. <i>Small</i> , 2015, 11, 1364-1383.	5.2	47
29	Efficient near-infrared light-emitting diodes based on organometallic halide perovskite-poly(2-ethyl-2-oxazoline) nanocomposite thin films. <i>Nanoscale</i> , 2016, 8, 19846-19852.	2.8	43
30	Application of Two-Dimensional Correlation Infrared Spectroscopy to the Study of Miscible Polymer Blends. <i>Macromolecules</i> , 2003, 36, 8156-8163.	2.2	39
31	Growth of Perovskite CsPbBr ₃ Nanocrystals and Their Formed Superstructures Revealed by In Situ Spectroscopy. <i>Chemistry of Materials</i> , 2020, 32, 8877-8884.	3.2	39
32	Two-Dimensional Correlation Infrared Spectroscopic Study of N-Methylacetamide as a Function of Temperature. <i>Journal of Physical Chemistry A</i> , 2003, 107, 7697-7703.	1.1	32
33	Application of Two-Dimensional Correlation Infrared Spectroscopy to the Study of Immiscible Polymer Blends. <i>Macromolecules</i> , 2003, 36, 8148-8155.	2.2	32
34	Chemical Cutting of Perovskite Nanowires into Single-Photon Emissive Low-Aspect-Ratio CsPbX ₃ (X=Cl, Br, I) Nanorods. <i>Angewandte Chemie</i> , 2018, 130, 16326-16330.	1.6	32
35	Top-Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. <i>Angewandte Chemie</i> , 2017, 129, 9699-9704.	1.6	31
36	Co single atoms and nanoparticles dispersed on N-doped carbon nanotube as high-performance catalysts for Zn-air batteries. <i>Rare Metals</i> , 2022, 41, 2055-2062.	3.6	27

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37	Interfacial Manganese-Doping in CsPbBr ₃ Nanoplatelets by Employing a Molecular Shuttle. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	25
38	Application of Generalized Two-Dimensional Infrared Correlation Spectroscopy to the Study of a Hydrogen-Bonded Blend. <i>Applied Spectroscopy</i> , 2004, 58, 1074-1081.	1.2	23
39	Exciton Diffusion Lengths and Dissociation Rates in CsPbBr ₃ Nanocrystal/Fullerene Composites: Layer-by-Layer versus Blend Structures. <i>Advanced Optical Materials</i> , 2019, 7, 1801776.	3.6	23
40	A Building Brick Principle to Create Transparent Composite Films with Multicolor Emission and Self-Healing Function. <i>Small</i> , 2018, 14, e1800315.	5.2	21
41	Fast recognition of single quantum dots from high multi-exciton emission and clustering effects. <i>Optics Express</i> , 2018, 26, 4674.	1.7	18
42	Revealing the Formation Mechanism of CsPbBr ₃ Perovskite Nanocrystals Produced via a Slowed-Down Microwave-Assisted Synthesis. <i>Angewandte Chemie</i> , 2018, 130, 5935-5939.	1.6	12
43	Coupling a Three-Dimensional Nanopillar and Robust Film to Guide Li-Ion Flux for Dendrite-Free Lithium Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45416-45425.	4.0	8
44	Mangan-Dotierung von Perowskit-Nanokristallen: Quanteneinschränkung Aufgrund von Ruddlesden-Popper-Defekten. <i>Angewandte Chemie</i> , 2020, 132, 6860-6865.	1.6	7
45	Template-basierte Herstellung von 2D-photonischen Superkristallen mit verstärkter spontaner Emission aus CsPbBr ₃ -Perowskit-Nanokristallen. <i>Angewandte Chemie</i> , 2020, 132, 17903-17909.	1.6	6
46	Spontane Kristallisation von Perowskit-Nanokristallen in unpolaren organischen Lösungsmitteln: Ein vielseitiges Konzept für deren morphologiekontrollierende Synthese. <i>Angewandte Chemie</i> , 2019, 131, 16710-16715.	1.6	5
47	Facile Synthesis of FAPbI ₃ Nanorods. <i>Nanomaterials</i> , 2020, 10, 72.	1.9	5
48	Efficient Interfacial Synthesis Strategy for Perovskite CsPbBr ₃ Nanorods in the Biphasic Solution. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	5
49	Synthesis of Perovskite Nanocrystals. <i>Springer Series in Materials Science</i> , 2020, , 1-18.	0.4	2
50	Interfacial Manganese-Doping in CsPbBr ₃ Nanoplatelets by Employing a Molecular Shuttle. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
51	Titelbild: Template-basierte Herstellung von 2D-photonischen Superkristallen mit verstärkter spontaner Emission aus CsPbBr ₃ -Perowskit-Nanokristallen (<i>Angew. Chem.</i> 40/2020). <i>Angewandte Chemie</i> , 2020, 132, 17457-17457.	1.6	0
52	Thumbnail: Mangan-Dotierung von Perowskit-Nanokristallen: Quanteneinschränkung Aufgrund von Ruddlesden-Popper-Defekten (<i>Angew. Chem.</i> 17/2020). <i>Angewandte Chemie</i> , 2020, 132, 7004-7004.	1.6	0