

Sheng Huang

List of Publications by Citations

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29
papers

1,463
citations

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h-index

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32
ext. papers

1,832
ext. citations

9.5
avg, IF

4.74
L-index

#	Paper	IF	Citations
29	Thermodynamically Stable Orthorhombic ECsPbI Thin Films for High-Performance Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11716-11725	16.4	206
28	Centimeter-Sized Cs ₄ PbBr ₆ Crystals with Embedded CsPbBr ₃ Nanocrystals Showing Superior Photoluminescence: Nonstoichiometry Induced Transformation and Light-Emitting Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1706567	15.6	205
27	Grain-Boundary "Patches" by In Situ Conversion to Enhance Perovskite Solar Cells Stability. <i>Advanced Materials</i> , 2018 , 30, e1800544	24	170
26	Colloidal Synthesis of Air-Stable CH ₃ NH ₃ PbI ₃ Quantum Dots by Gaining Chemical Insight into the Solvent Effects. <i>Chemistry of Materials</i> , 2017 , 29, 3793-3799	9.6	155
25	Polar Solvent Induced Lattice Distortion of Cubic CsPbI Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11705-11715	16.4	154
24	Colloidal Synthesis of CH ₃ NH ₃ PbBr Nanoplatelets with Polarized Emission through Self-Organization. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1780-1783	16.4	79
23	Improved Environmental Stability and Solar Cell Efficiency of (MA,FA)PbI ₃ Perovskite Using a Wide-Band-Gap 1D Thiazolium Lead Iodide Capping Layer Strategy. <i>ACS Energy Letters</i> , 2019 , 4, 1763-1769	20.1	79
22	Dimension control of in situ fabricated CsPbClBr nanocrystal films toward efficient blue light-emitting diodes. <i>Nature Communications</i> , 2020 , 11, 6428	17.4	65
21	Ultralow-Threshold and Color-Tunable Continuous-Wave Lasing at Room-Temperature from In Situ Fabricated Perovskite Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3248-3253	6.4	50
20	Excellent Stability of Perovskite Solar Cells by Passivation Engineering. <i>Solar Rrl</i> , 2018 , 2, 1800088	7.1	49
19	Strong Polarized Photoluminescence from Stretched Perovskite-Nanocrystal-Embedded Polymer Composite Films. <i>Advanced Optical Materials</i> , 2017 , 5, 1700594	8.1	48
18	Highly Stable and Spectrally Tunable Gamma Phase RbxCs _{1-x} PbI ₃ Gradient-Alloyed Quantum Dots in PMMA Matrix through A Sites Engineering. <i>Advanced Functional Materials</i> , 2021 , 31, 2008211	15.6	37
17	Photodegradation of Organometal Hybrid Perovskite Nanocrystals: Clarifying the Role of Oxygen by Single-Dot Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 864-869	6.4	34
16	Enhanced piezo-response in copper halide perovskites based PVDF composite films. <i>Science Bulletin</i> , 2018 , 63, 1254-1259	10.6	20
15	Halogenated-Methylammonium Based 3D Halide Perovskites. <i>Advanced Materials</i> , 2019 , 31, e1903830	24	19
14	Colloidal Synthesis of CH ₃ NH ₃ PbBr ₃ Nanoplatelets with Polarized Emission through Self-Organization. <i>Angewandte Chemie</i> , 2017 , 129, 1806-1809	3.6	14
13	Brightly luminescent and color-tunable green-violet-emitting halide perovskite CH ₃ NHPbBr colloidal quantum dots: an alternative to lighting and display technology. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 19950-19957	3.6	14

12	Morphology Evolution of Gradient-Alloyed Cd _x Zn _{1-x} Se _y S _{1-y} @ZnS Core/Shell Quantum Dots during Transmission Electron Microscopy Determination: A Route to Illustrate Strain Effects. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4583-4588	3.8	13
11	Incorporated Guanidinium Expands the CH ₃ NH ₂ PbI ₃ Lattice and Enhances Photovoltaic Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43885-43891	9.5	12
10	The Evolution of Photoluminescence Properties of PEA ₂ SnI ₄ Upon Oxygen Exposure: Insight into Concentration Effects. <i>Advanced Functional Materials</i> , 2022 , 32, 2108296	15.6	6
9	A p-p Homo Junction-Enhanced Hole Transfer in Inverted Planar Perovskite Solar Cells. <i>ChemSusChem</i> , 2021 , 14, 1396-1403	8.3	6
8	Effect of solute elements (Cr, Mo, Fe, Co) on the adhesion properties of WC/Ni-based binder interface: A first-principles study. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021 , 98, 105563	4.1	6
7	Colloidal CdMTe Nanowires from the Visible to the Near Infrared Region: N,N-Dimethylformamide-Mediated Precise Cation Exchange. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7-13	6.4	5
6	Interlayer Determined Photoluminescence Excitation Properties of Cs-Rich and Pb-Rich Cs ₄ PbBr ₆ Samples. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16103-16109	3.8	5
5	3- Structural Model and Common Characteristics of Anomalous Thermal Transport: The Case of Two-Dimensional Boron Carbides. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10975-10980	6.4	2
4	Nondestructive and Controllable Anion Exchange of Halide Perovskite Films through Finkelstein Reaction. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9253-9260	3.8	2
3	High-Performance Humidity Sensor Based on CsPdBr ₃ Nanocrystals for Noncontact Sensing of Hydromechanical Characteristics of Unsaturated Soil. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 17, 2200017	2.5	2
2	Field-Effect Control in Hole Transport Layer Composed of Li:NiO/NiO for Highly Efficient Inverted Planar Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2021 , 2101562	4.6	1
1	A First-Principles Study on the Structural and Carrier Transport Properties of Inorganic Perovskite CsPbI ₃ under Pressure. <i>Crystals</i> , 2022 , 12, 648	2.3	0