Sheng Huang

List of Publications by Year in Descending Order

29 papers	1,463 citations	15 h-index	32 g-index
32 ext. papers	1,832 ext. citations	9.5 avg, IF	4.74 L-index

#	Paper	IF	Citations
29	The Evolution of Photoluminescence Properties of PEA2SnI4 Upon Oxygen Exposure: Insight into Concentration Effects. *Advanced Functional Materials*, **2022**, 32, 2108296	15.6	6
28	A First-Principles Study on the Structural and Carrier Transport Properties of Inorganic Perovskite CsPbI3 under Pressure. *Crystals*, **2022**, 12, 648	2.3	0
27	3- Structural Model and Common Characteristics of Anomalous Thermal Transport: The Case of Two-Dimensional Boron Carbides. *Journal of Physical Chemistry Letters*, **2021**, 12, 10975-10980	6.4	2
26	Nondestructive and Controllable Anion Exchange of Halide Perovskite Films through Finkelstein Reaction. *Journal of Physical Chemistry C*, **2021**, 125, 9253-9260	3.8	2
25	A p-p Homojunction-Enhanced Hole Transfer in Inverted Planar Perovskite Solar Cells. *ChemSusChem*, **2021**, 14, 1396-1403	8.3	6
24	Interlayer Determined Photoluminescence Excitation Properties of Cs-Rich and Pb-Rich Cs4PbBr6 Samples. *Journal of Physical Chemistry C*, **2021**, 125, 16103-16109	3.8	5
23	Effect of solute elements (Cr, Mo, Fe, Co) on the adhesion properties of WC/Ni-based binder interface: A first-principles study. *International Journal of Refractory Metals and Hard Materials*, **2021**, 98, 105563	4.1	6
22	Highly Stable and Spectrally Tunable Gamma Phase RbxCs1−xPbI3 Gradient-Alloyed Quantum Dots in PMMA Matrix through A Sites Engineering. *Advanced Functional Materials*, **2021**, 31, 2008211	15.6	37
21	Dimension control of in situ fabricated CsPbClBr nanocrystal films toward efficient blue light-emitting diodes. *Nature Communications*, **2020**, 11, 6428	17.4	65
20	Colloidal CdMTe Nanowires from the Visible to the Near Infrared Region: ,-Dimethylformamide-Mediated Precise Cation Exchange. *Journal of Physical Chemistry Letters*, **2020**, 11, 7-13	6.4	5
19	Incorporated Guanidinium Expands the CHNHPbI Lattice and Enhances Photovoltaic Performance. *ACS Applied Materials & Interfaces*, **2020**, 12, 43885-43891	9.5	12
18	Halogenated-Methylammonium Based 3D Halide Perovskites. *Advanced Materials*, **2019**, 31, e1903830	24	19
17	Improved Environmental Stability and Solar Cell Efficiency of (MA,FA)PbI3 Perovskite Using a Wide-Band-Gap 1D Thiazolium Lead Iodide Capping Layer Strategy. *ACS Energy Letters*, **2019**, 4, 1763-1769	20.1	79
16	Ultralow-Threshold and Color-Tunable Continuous-Wave Lasing at Room-Temperature from In Situ Fabricated Perovskite Quantum Dots. *Journal of Physical Chemistry Letters*, **2019**, 10, 3248-3253	6.4	50
15	Photodegradation of Organometal Hybrid Perovskite Nanocrystals: Clarifying the Role of Oxygen by Single-Dot Photoluminescence. *Journal of Physical Chemistry Letters*, **2019**, 10, 864-869	6.4	34
14	Centimeter-Sized Cs4PbBr6 Crystals with Embedded CsPbBr3 Nanocrystals Showing Superior Photoluminescence: Nonstoichiometry Induced Transformation and Light-Emitting Applications. *Advanced Functional Materials*, **2018**, 28, 1706567	15.6	205
13	Morphology Evolution of Gradient-Alloyed CdxZn1−xSeyS1−y@ZnS Core−Shell Quantum Dots during Transmission Electron Microscopy Determination: A Route to Illustrate Strain Effects. *Journal of Physical Chemistry C*, **2018**, 122, 4583-4588	3.8	13

12	Enhanced piezo-response in copper halide perovskites based PVDF composite films. *Science Bulletin*, **2018**, 63, 1254-1259	10.6	20
11	Brightly luminescent and color-tunable green-violet-emitting halide perovskite CHNHPbBr colloidal quantum dots: an alternative to lighting and display technology. *Physical Chemistry Chemical Physics* , **2018**, 20, 19950-19957	3.6	14
10	Thermodynamically Stable Orthorhombic CsPbI Thin Films for High-Performance Photovoltaics. *Journal of the American Chemical Society*, **2018**, 140, 11716-11725	16.4	206
9	Polar Solvent Induced Lattice Distortion of Cubic CsPbI Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. *Journal of the American Chemical Society*, **2018**, 140, 11705-11715	16.4	154
8	Grain-Boundary "Patches" by In Situ Conversion to Enhance Perovskite Solar Cells Stability. *Advanced Materials*, **2018**, 30, e1800544	24	170
7	Excellent Stability of Perovskite Solar Cells by Passivation Engineering. *Solar Rrl*, **2018**, 2, 1800088	7.1	49
6	Colloidal Synthesis of CH3NH3PbBr3 Nanoplatelets with Polarized Emission through Self-Organization. *Angewandte Chemie*, **2017**, 129, 1806-1809	3.6	14
5	Colloidal Synthesis of CH NH PbBr Nanoplatelets with Polarized Emission through Self-Organization. *Angewandte Chemie - International Edition*, **2017**, 56, 1780-1783	16.4	79
4	Colloidal Synthesis of Air-Stable CH3NH3PbI3 Quantum Dots by Gaining Chemical Insight into the Solvent Effects. *Chemistry of Materials*, **2017**, 29, 3793-3799	9.6	155
3	Strong Polarized Photoluminescence from Stretched Perovskite-Nanocrystal-Embedded Polymer Composite Films. *Advanced Optical Materials*, **2017**, 5, 1700594	8.1	48
2	Field-Effect Control in Hole Transport Layer Composed of Li:NiO/NiO for Highly Efficient Inverted Planar Perovskite Solar Cells. *Advanced Materials Interfaces*,2101562	4.6	1
1	High-Performance Humidity Sensor Based on CsPdBr 3 Nanocrystals for Noncontact Sensing of Hydromechanical Characteristics of Unsaturated Soil. *Physica Status Solidi - Rapid Research Letters*,2200017	2.5	2