Jun Hu

List of Publications by Year
in descending order

27 papers	2,169 citations	430874 18 h-index	580821 25 g-index
27 all docs	27 docs citations	27 times ranked	4240 citing authors

#	Article	IF	Citations
1	Phosphorene: Synthesis, Scale-Up, and Quantitative Optical Spectroscopy. ACS Nano, 2015, 9, 8869-8884.	14.6	428
2	Enhanced Charge Transport in 2D Perovskites via Fluorination of Organic Cation. Journal of the American Chemical Society, 2019, 141, 5972-5979.	13.7	274
3	Synthetic control over orientational degeneracy of spacer cations enhances solar cell efficiency in two-dimensional perovskites. Nature Communications, 2019, 10, 1276.	12.8	222
4	From One to Two: In Situ Construction of an Ultrathin 2D-2D Closely Bonded Heterojunction from a Single-Phase Monolayer Nanosheet. Journal of the American Chemical Society, 2019, 141, 19715-19727.	13.7	148
5	Twoâ€Đimensional Organicâ€“Inorganic Hybrid Perovskites: A New Platform for Optoelectronic Applications. Advanced Materials, 2018, 30, e1802041.	21.0	138
6	Control of Surface and Edge Oxidation on Phosphorene. ACS Applied Materials & Interfaces, 2017, 9, 9126-9135.	8.0	135
7	Experimental Demonstration of an Electride as a 2D Material. Journal of the American Chemical Society, 2016, 138, 16089-16094.	13.7	132
8	Band Gap Engineering in a 2D Material for Solar-to-Chemical Energy Conversion. Nano Letters, 2016, 16, 74-79.	9.1	126
9	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wideâ€Bandgap Perovskite Solar Cells Beyond 21%. Solar Rrl, 2020, 4, 2000082.	5.8	79
10	Energy transfer mechanisms in layered 2D perovskites. Journal of Chemical Physics, 2018, 148, 134706.	3.0	70
11	General Post-annealing Method Enables High-Efficiency Two-Dimensional Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 33187-33197.	8.0	66
12	Aryl-Perfluoroaryl Interaction in Two-Dimensional Organicâ€“Inorganic Hybrid Perovskites Boosts Stability and Photovoltaic Efficiency. , 2019, 1, 171-176.		63
13	Organic additive-free synthesis of mesocrystalline hematite nanoplates via two-dimensional oriented attachment. CrystEngComm, 2014, 16, 1553-1559.	2.6	52
14	Green-Solvent-Processed Conjugated Polymers for Organic Solar Cells: The Impact of Oligoethylene Glycol Side Chains. ACS Applied Polymer Materials, 2019, 1, 804-814.	4.4	39
15	Ultrafast Exciton Transport with a Long Diffusion Length in Layered Perovskites with Organic Cation Functionalization. Advanced Materials, 2020, 32, e2004080.	21.0	34
16	Imaging Carrier Diffusion in Perovskites with a Diffractive Optic-Based Transient Absorption Microscope. Journal of Physical Chemistry C, 2018, 122, 10650-10656.	3.1	31
17	A molecular tandem cell for efficient solar water splitting. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13256-13260.	7.1	28
18	Imaging Excited State Dynamics in Layered 2D Perovskites with Transient Absorption Microscopy. Journal of Physical Chemistry A, 2019, 123, 11012-11021.	2.5	21

#	Article	IF	Citations
19	Top-down fabrication of hematite mesocrystals with tunable morphologies. CrystEngComm, 2013, 15, 6284.	2.6	19
20	Distinguishing Energy- and Charge-Transfer Processes in Layered Perovskite Quantum Wells with Two-Dimensional Action Spectroscopies. Journal of Physical Chemistry Letters, 2020, 11, 4570-4577.	4.6	19
21	Enhancing Photovoltaic Performance of Aromatic Ammoniumâ€based Twoâ€Dimensional Organicâ€Inorganic Hybrid Perovskites via Tuning CHÂ·Â·Â·Ï€ Interaction. Solar Rrl, 2020, 4, 1900374.	5.8	15
22	Nonlinear fluorescence spectroscopy of layered perovskite quantum wells. Journal of Chemical Physics, 2020, 153, 134202.	3.0	10
23	Nonlinear Photocurrent Spectroscopy of Layered 2D Perovskite Quantum Wells. Journal of Physical Chemistry Letters, 2019, 10, 7362-7367.	4.6	9
24	Dramatic Improvement of the Mechanical Strength of Silane-Modified Hydroxyapatiteâ€“Gelatin Composites via Processing with Cosolvent. ACS Omega, 2018, 3, 3592-3598.	3.5	5
25	Probing Carrier Transport in Layered Perovskites with Nonlinear Optical and Photocurrent Spectroscopies. Journal of Physical Chemistry C, 2021, 125, 8021-8030.	3.1	4
26	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wideâ€Bandgap Perovskite Solar Cells Beyond 21%. Solar Rrl, 2020, 4, 2070065.	5.8	2
27	Non-Covalent Interactions in Organic/Inorganic Hybrid 2D Perovskites. , 2022, , 153-193.		0