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	Non-Covalent Interactions in Organic/Inorganic Hybrid 2D Perovskites. , 2022, , 153-193.		0
2	Probing Carrier Transport in Layered Perovskites with Nonlinear Optical and Photocurrent Spectroscopies. Journal of Physical Chemistry C, 2021, 125, 8021-8030.	3.1	4
3	Enhancing Photovoltaic Performance of Aromatic Ammoniumâ€based Twoâ€Dimensional Organicâ€Inorganic Hybrid Perovskites via Tuning CHÂ·Â·Ï€ Interaction. Solar Rrl, 2020, 4, 1900374.	5.8	15
4	Ultrafast Exciton Transport with a Long Diffusion Length in Layered Perovskites with Organic Cation Functionalization. Advanced Materials, 2020, 32, e2004080.	21.0	34
5	Nonlinear fluorescence spectroscopy of layered perovskite quantum wells. Journal of Chemical Physics, 2020, 153, 134202.	3.0	10
6	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
7	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
8	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wideâ€Bandgap Perovskite Solar Cells Beyond 21%. Solar Rrl, 2020, 4, 2070065.	5.8	2
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	Imaging Excited State Dynamics in Layered 2D Perovskites with Transient Absorption Microscopy. Journal of Physical Chemistry A, 2019, 123, 11012-11021.	2.5	21
11	Aryl-Perfluoroaryl Interaction in Two-Dimensional Organicâ€“Inorganic Hybrid Perovskites Boosts Stability and Photovoltaic Efficiency. , 2019, 1, 171-176.		63
12	Enhanced Charge Transport in 2D Perovskites via Fluorination of Organic Cation. Journal of the American Chemical Society, 2019, 141, 5972-5979.	13.7	274
13	Synthetic control over orientational degeneracy of spacer cations enhances solar cell efficiency in two-dimensional perovskites. Nature Communications, 2019, 10, 1276.	12.8	222
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	Nonlinear Photocurrent Spectroscopy of Layered 2D Perovskite Quantum Wells. Journal of Physical Chemistry Letters, 2019, 10, 7362-7367.	4.6	9
16	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
17	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
18	Energy transfer mechanisms in layered 2D perovskites. Journal of Chemical Physics, 2018, 148, 134706.	3.0	70

#	Article	IF	Citations
19	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
20	General Post-annealing Method Enables High-Efficiency Two-Dimensional Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 33187-33197.	8.0	66
21	Twoâ€Ðimensional Organicâ€“Inorganic Hybrid Perovskites: A New Platform for Optoelectronic Applications. Advanced Materials, 2018, 30, e1802041.	21.0	138
22	Control of Surface and Edge Oxidation on Phosphorene. ACS Applied Materials & Interfaces, 2017, 9, 9126-9135.	8.0	135
23	Experimental Demonstration of an Electride as a 2D Material. Journal of the American Chemical Society, 2016, 138, 16089-16094.	13.7	132
24	Band Gap Engineering in a 2D Material for Solar-to-Chemical Energy Conversion. Nano Letters, 2016, 16, 74-79.	9.1	126
25	Phosphorene: Synthesis, Scale-Up, and Quantitative Optical Spectroscopy. ACS Nano, 2015, 9, 8869-8884.	14.6	428
26	Organic additive-free synthesis of mesocrystalline hematite nanoplates via two-dimensional oriented attachment. CrystEngComm, 2014, 16, 1553-1559.	2.6	52
27	Top-down fabrication of hematite mesocrystals with tunable morphologies. CrystEngComm, 2013, 15, 6284.	2.6	19