Duyen H Cao

List of Publications by Year
in descending order

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17 papers	5,306 citations	623734 14 h-index	996975 15 g-index
17 all docs	17 docs citations	17 times ranked	6482 citing authors

#	Article	IF	Citations
1	Effects of Atomic-Layer-Deposition Alumina on Proton Transmission through Single-Layer Graphene in Electrochemical Hydrogen Pump Cells. ACS Applied Energy Materials, 2020, 3, 1364-1372.	5.1	6
2	Direct Observation of Bandgap Oscillations Induced by Optical Phonons in Hybrid Lead Iodide Perovskites. Advanced Functional Materials, 2020, 30, 1907982.	14.9	15
3	Infrared-pump electronic-probe of methylammonium lead iodide reveals electronically decoupled organic and inorganic sublattices. Nature Communications, 2019, 10, 482.	12.8	25
4	Atomic Layer Deposition Nucleation on Isolated Self-Assembled Monolayer Functional Groups: A Combined DFT and Experimental Study. ACS Applied Energy Materials, 2019, 2, 4618-4628.	5.1	20
5	Comprehensive Computational Study of Partial Lead Substitution in Methylammonium Lead Bromide. Chemistry of Materials, 2019, 31, 3599-3612.	6.7	37
6	Charge Transfer Dynamics of Phase-Segregated Halide Perovskites: CH₃NH₃PbCl₃ and CH₃NH₃PbI₃ or (C₄H₉NH₃)₂(CH₃NH₃)_{nâ^'1}Pb<s Mixtures. ACS Applied Materials & Interfaces, 2019, 11, 9583-9593.	8.0	14
7	Structural and thermodynamic limits of layer thickness in 2D halide perovskites. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 58-66.	7.1	236
8	First-principles Study of Intrinsic and Extrinsic Point Defects in Lead-Based Hybrid Perovskites. , 2018, , .		3
9	Thin Films and Solar Cells Based on Semiconducting Two-Dimensional Ruddlesdenâ€“Popper (CH₃(CH₂)₃NH₃)₂(CH₃NH₃<sub>n Perovskites. ACS Energy Letters, 2017, 2, 982-990.	13.4	335
10	Importance of Reducing Vapor Atmosphere in the Fabrication of Tin-Based Perovskite Solar Cells. Journal of the American Chemical Society, 2017, 139, 836-842.	13.7	470
11	Interconversion between Free Charges and Bound Excitons in 2D Hybrid Lead Halide Perovskites. Journal of Physical Chemistry C, 2017, 121, 26566-26574.	3.1	123
12	Ruddlesdenâ€“Popper Hybrid Lead Iodide Perovskite 2D Homologous Semiconductors. Chemistry of Materials, 2016, 28, 2852-2867.	6.7	1,607
13	Overcoming Short-Circuit in Lead-Free CH₃NH₃SnI₃ Perovskite Solar Cells via Kinetically Controlled Gasâ€“Solid Reaction Film Fabrication Process. Journal of Physical Chemistry Letters, 2016, 7, 776-782.	4.6	290
14	2D Homologous Perovskites as Light-Absorbing Materials for Solar Cell Applications. Journal of the American Chemical Society, 2015, 137, 7843-7850.	13.7	1,818
15	Introducing Perovskite Solar Cells to Undergraduates. Journal of Physical Chemistry Letters, 2015, 6, 251-255.	4.6	33
16	Remnant PbI2, an unforeseen necessity in high-efficiency hybrid perovskite-based solar cells?. APL Materials, 2014, 2, .	5.1	264
17	Effect of the organic cation on 2D organic-inorganic Perovskites. , 0, , .		0