

# 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

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all docs

17  
docs citations

17  
times ranked

6482  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ruddlesdenâ€“Popper Hybrid Lead Iodide Perovskite 2D Homologous Semiconductors. Chemistry of Materials, 2016, 28, 2852-2867.	6.7	1,607
3	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
4	Thin Films and Solar Cells Based on Semiconducting Two-Dimensional Ruddlesdenâ€“Popper $(\text{CH}_3\text{NH}_3)_2(\text{CH}_3\text{NH}_3)\text{NH}_3(\text{CH}_3\text{NH}_3)_2$ Perovskites. ACS Energy Letters, 2017, 2, 982-990.	4.6	290
5	Overcoming Short-Circuit in Lead-Free $\text{CH}_3\text{NH}_3\text{SnI}_3$ Perovskite Solar Cells via Kinetically Controlled Gasâ€“Solid Reaction Film Fabrication Process. Journal of Physical Chemistry Letters, 2016, 7, 776-782.	4.6	290
6	Remnant $\text{PbI}_2$ , an unforeseen necessity in high-efficiency hybrid perovskite-based solar cells?. APL Materials, 2014, 2, .	5.1	264
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	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
9	Comprehensive Computational Study of Partial Lead Substitution in Methylammonium Lead Bromide. Chemistry of Materials, 2019, 31, 3599-3612.	6.7	37
10	Introducing Perovskite Solar Cells to Undergraduates. Journal of Physical Chemistry Letters, 2015, 6, 251-255.	4.6	33
11	Infrared-pump electronic-probe of methylammonium lead iodide reveals electronically decoupled organic and inorganic sublattices. Nature Communications, 2019, 10, 482.	12.8	25
12	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
13	Direct Observation of Bandgap Oscillations Induced by Optical Phonons in Hybrid Lead Iodide Perovskites. Advanced Functional Materials, 2020, 30, 1907982.	14.9	15
14	Charge Transfer Dynamics of Phase-Segregated Halide Perovskites: $\text{CH}_3\text{NH}_3\text{PbCl}_3$ and $\text{CH}_3\text{NH}_3\text{PbI}_3$ or $(\text{C}_4\text{H}_9\text{NH}_3)_2(\text{CH}_3\text{NH}_3)$ Mixtures. ACS Applied Materials & Interfaces, 2019, 11, 9583-9593.	8.0	14
15	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
16	First-principles Study of Intrinsic and Extrinsic Point Defects in Lead-Based Hybrid Perovskites. , 2018, , .		3
17	Effect of the organic cation on 2D organic-inorganic Perovskites. , 0, , .		0