David T Moore

List of Publications by Year in descending order

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32 papers	7,550 citations	257101 24 h-index	454577 30 g-index
32 all docs	32 docs citations	32 times ranked	10021 citing authors

#	Article	IF	Citations
1	Polymer Hole Transport Material Functional Group Tuning for Improved Perovskite Solar Cell Performance. ACS Applied Energy Materials, 2022, 5, 8601-8610.	2.5	3
2	Assessing health and environmental impacts of solvents for producing perovskite solar cells. Nature Sustainability, 2021, 4, 277-285.	11.5	117
3	Complementary interface formation toward high-efficiency all-back-contact perovskite solar cells. Cell Reports Physical Science, 2021, 2, 100363.	2.8	17
4	Substrate-Controlled Electronic Properties of Perovskite Layer in Lateral Heterojunction Configuration. , 2021, , .		0
5	Carrier gradients and the role of charge selective contacts in lateral heterojunction all back contact perovskite solar cells. Cell Reports Physical Science, 2021, 2, 100520.	2.8	12
6	Reversible multicolor chromism in layered formamidinium metal halide perovskites. Nature Communications, 2020, 11, 5234.	5.8	48
7	The Role of Dimethylammonium in Bandgap Modulation for Stable Halide Perovskites. ACS Energy Letters, 2020, 5, 1856-1864.	8.8	65
8	The existence and impact of persistent ferroelectric domains in MAPbI ₃. Science Advances, 2019, 5, eaas9311.	4.7	77
9	Enabling Flexible All-Perovskite Tandem Solar Cells. Joule, 2019, 3, 2193-2204.	11.7	331
10	Substrate-Dependent Photoconductivity Dynamics in a High-Efficiency Hybrid Perovskite Alloy. Journal of Physical Chemistry C, 2019, 123, 3402-3415.	1.5	10
11	Curtailing Perovskite Processing Limitations via Lamination at the Perovskite/Perovskite Interface. ACS Energy Letters, 2018, 3, 1192-1197.	8.8	33
12	Degradation of Highly Alloyed Metal Halide Perovskite Precursor Inks: Mechanism and Storage Solutions. ACS Energy Letters, 2018, 3, 979-985.	8.8	84
13	One-Step High-Throughput Blade Coating of Perovskite Solar Cells. , 2018, , .		1
14	Roll-to-Roll Printing of Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 2558-2565.	8.8	199
15	Direct Measurements of Carrier Transport in Polycrystalline Methylammonium Lead Iodide Perovskite Films with Transient Grating Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 5710-5717.	2.1	26
16	Top and bottom surfaces limit carrier lifetime in lead iodide perovskite films. Nature Energy, 2017, 2, .	19.8	376
17	Quantitative analysis of time-resolved microwave conductivity data. Journal Physics D: Applied Physics, 2017, 50, 493002.	1.3	74
18	Determination of the True Lateral Grain Size in Organicâ€“Inorganic Halide Perovskite Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 33565-33570.	4.0	17

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19	Synthesis and Spectroscopy of Silver-Doped PbSe Quantum Dots. Journal of the American Chemical Society, 2017, 139, 10382-10394.	6.6	58
20	A low viscosity, low boiling point, clean solvent system for the rapid crystallisation of highly specular perovskite films. Energy and Environmental Science, 2017, 10, 145-152.	15.6	319
21	Switchable photovoltaic windows enabled by reversible photothermal complex dissociation from methylammonium lead iodide. Nature Communications, 2017, 8, 1722.	5.8	107
22	Bandgapâ€Tunable Cesium Lead Halide Perovskites with High Thermal Stability for Efficient Solar Cells. Advanced Energy Materials, 2016, 6, 1502458.	10.2	1,265
23	Quantum dotâ€“induced phase stabilization of Î±-CsPbI ₃ perovskite for high-efficiency photovoltaics. Science, 2016, 354, 92-95.	6.0	2,287
24	Mechanism for rapid growth of organicâ€“inorganic halide perovskite crystals. Nature Communications, 2016, 7, 13303.	5.8	191
25	Crystallization Kinetics of Organicâ€“Inorganic Trihalide Perovskites and the Role of the Lead Anion in Crystal Growth. Journal of the American Chemical Society, 2015, 137, 2350-2358.	6.6	326
26	Ultrasmooth organicâ€“inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. Nature Communications, 2015, 6, 6142.	5.8	784
27	Direct Crystallization Route to Methylammonium Lead Iodide Perovskite from an Ionic Liquid. Chemistry of Materials, 2015, 27, 3197-3199.	3.2	87
28	Impact of the organic halide salt on final perovskite composition for photovoltaic applications. APL Materials, 2014, 2, .	2.2	50
29	A detailed balance analysis of conversion efficiencies limits for nanocrystal solar cellsâ€”Relating the shape of the excitonic peak to conversion efficiencies. Journal of Applied Physics, 2014, 115, 054313.	1.1	10
30	Influence of Thermal Processing Protocol upon the Crystallization and Photovoltaic Performance of Organicâ€“Inorganic Lead Trihalide Perovskites. Journal of Physical Chemistry C, 2014, 118, 17171-17177.	1.5	225
31	Thermally Induced Structural Evolution and Performance of Mesoporous Block Copolymer-Directed Alumina Perovskite Solar Cells. ACS Nano, 2014, 8, 4730-4739.	7.3	269
32	Submicrosecond Time Resolution Atomic Force Microscopy for Probing Nanoscale Dynamics. Nano Letters, 2012, 12, 893-898.	4.5	82