

David T Moore

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

7,550
citations

257450

24
h-index

454955

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. | 5.1 | 3 |
| 2 | Assessing health and environmental impacts of solvents for producing perovskite solar cells. Nature Sustainability, 2021, 4, 277-285. | 23.7 | 117 |
| 3 | Complementary interface formation toward high-efficiency all-back-contact perovskite solar cells. Cell Reports Physical Science, 2021, 2, 100363. | 5.6 | 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. | 5.6 | 12 |
| 6 | Reversible multicolor chromism in layered formamidinium metal halide perovskites. Nature Communications, 2020, 11, 5234. | 12.8 | 48 |
| 7 | The Role of Dimethylammonium in Bandgap Modulation for Stable Halide Perovskites. ACS Energy Letters, 2020, 5, 1856-1864. | 17.4 | 65 |
| 8 | The existence and impact of persistent ferroelectric domains in MAPbI ₃ . Science Advances, 2019, 5, eaas9311. | 10.3 | 77 |
| 9 | Enabling Flexible All-Perovskite Tandem Solar Cells. Joule, 2019, 3, 2193-2204. | 24.0 | 331 |
| 10 | Substrate-Dependent Photoconductivity Dynamics in a High-Efficiency Hybrid Perovskite Alloy. Journal of Physical Chemistry C, 2019, 123, 3402-3415. | 3.1 | 10 |
| 11 | Curtailing Perovskite Processing Limitations via Lamination at the Perovskite/Perovskite Interface. ACS Energy Letters, 2018, 3, 1192-1197. | 17.4 | 33 |
| 12 | Degradation of Highly Alloyed Metal Halide Perovskite Precursor Inks: Mechanism and Storage Solutions. ACS Energy Letters, 2018, 3, 979-985. | 17.4 | 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. | 17.4 | 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. | 4.6 | 26 |
| 16 | Top and bottom surfaces limit carrier lifetime in lead iodide perovskite films. Nature Energy, 2017, 2, . | 39.5 | 376 |
| 17 | Quantitative analysis of time-resolved microwave conductivity data. Journal Physics D: Applied Physics, 2017, 50, 493002. | 2.8 | 74 |
| 18 | Determination of the True Lateral Grain Size in Organic-Inorganic Halide Perovskite Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 33565-33570. | 8.0 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Synthesis and Spectroscopy of Silver-Doped PbSe Quantum Dots. <i>Journal of the American Chemical Society</i> , 2017, 139, 10382-10394. | 13.7 | 58 |
| 20 | A low viscosity, low boiling point, clean solvent system for the rapid crystallisation of highly specular perovskite films. <i>Energy and Environmental Science</i> , 2017, 10, 145-152. | 30.8 | 319 |
| 21 | Switchable photovoltaic windows enabled by reversible photothermal complex dissociation from methylammonium lead iodide. <i>Nature Communications</i> , 2017, 8, 1722. | 12.8 | 107 |
| 22 | Bandgap-Tunable Cesium Lead Halide Perovskites with High Thermal Stability for Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1502458. | 19.5 | 1,265 |
| 23 | Quantum dot-induced phase stabilization of AB_3 perovskite for high-efficiency photovoltaics. <i>Science</i> , 2016, 354, 92-95. | 12.6 | 2,287 |
| 24 | Mechanism for rapid growth of organic-inorganic halide perovskite crystals. <i>Nature Communications</i> , 2016, 7, 13303. | 12.8 | 191 |
| 25 | Crystallization Kinetics of Organic-Inorganic Trihalide Perovskites and the Role of the Lead Anion in Crystal Growth. <i>Journal of the American Chemical Society</i> , 2015, 137, 2350-2358. | 13.7 | 326 |
| 26 | Ultrasoft organic-inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. <i>Nature Communications</i> , 2015, 6, 6142. | 12.8 | 784 |
| 27 | Direct Crystallization Route to Methylammonium Lead Iodide Perovskite from an Ionic Liquid. <i>Chemistry of Materials</i> , 2015, 27, 3197-3199. | 6.7 | 87 |
| 28 | Impact of the organic halide salt on final perovskite composition for photovoltaic applications. <i>APL Materials</i> , 2014, 2, . | 5.1 | 50 |
| 29 | A detailed balance analysis of conversion efficiencies limits for nanocrystal solar cells—Relating the shape of the excitonic peak to conversion efficiencies. <i>Journal of Applied Physics</i> , 2014, 115, 054313. | 2.5 | 10 |
| 30 | Influence of Thermal Processing Protocol upon the Crystallization and Photovoltaic Performance of Organic-Inorganic Lead Trihalide Perovskites. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17171-17177. | 3.1 | 225 |
| 31 | Thermally Induced Structural Evolution and Performance of Mesoporous Block Copolymer-Directed Alumina Perovskite Solar Cells. <i>ACS Nano</i> , 2014, 8, 4730-4739. | 14.6 | 269 |
| 32 | Submicrosecond Time Resolution Atomic Force Microscopy for Probing Nanoscale Dynamics. <i>Nano Letters</i> , 2012, 12, 893-898. | 9.1 | 82 |