

Caleb C Boyd

List of Publications by Year in descending order

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17
papers

3,331
citations

623574

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996849

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docs citations

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times ranked

4283
citing authors

#	ARTICLE	IF	CITATIONS
1	Incorporating Electrochemical Halide Oxidation into Drift-Diffusion Models to Explain Performance Losses in Perovskite Solar Cells under Prolonged Reverse Bias. <i>Advanced Energy Materials</i> , 2021, 11, 2002614.	10.2	34
2	Temperature Coefficients of Perovskite Photovoltaics for Energy Yield Calculations. <i>ACS Energy Letters</i> , 2021, 6, 2038-2047.	8.8	43
3	Investigation of the Selectivity of Carrier Transport Layers in Wide-Bandgap Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100107.	3.1	13
4	Mobile Ion Concentration Measurement and Open-Access Band Diagram Simulation Platform for Halide Perovskite Solar Cells. <i>Joule</i> , 2020, 4, 109-127.	11.7	117
5	Learning from existing photovoltaic technologies to identify alternative perovskite module designs. <i>Energy and Environmental Science</i> , 2020, 13, 3393-3403.	15.6	43
6	Improving Low-Bandgap Tin-Lead Perovskite Solar Cells via Contact Engineering and Gas Quench Processing. <i>ACS Energy Letters</i> , 2020, 5, 1215-1223.	8.8	78
7	Triple-halide wide-band gap perovskites with suppressed phase segregation for efficient tandems. <i>Science</i> , 2020, 367, 1097-1104.	6.0	669
8	Overcoming Redox Reactions at Perovskite-Nickel Oxide Interfaces to Boost Voltages in Perovskite Solar Cells. <i>Joule</i> , 2020, 4, 1759-1775.	11.7	284
9	Chloride Antisolvent Adduct Formation in All-Inorganic Metal Halide Perovskites. <i>Advanced Energy Materials</i> , 2020, 10, 1903365.	10.2	55
10	Enhanced Nucleation of Atomic Layer Deposited Contacts Improves Operational Stability of Perovskite Solar Cells in Air. <i>Advanced Energy Materials</i> , 2019, 9, 1902353.	10.2	47
11	Triple-halide Bandgap Tuning In Top Cells For Perovskite/Si Tandems. , 2019, , .		0
12	Design of low bandgap tin-lead halide perovskite solar cells to achieve thermal, atmospheric and operational stability. <i>Nature Energy</i> , 2019, 4, 939-947.	19.8	235
13	Understanding Degradation Mechanisms and Improving Stability of Perovskite Photovoltaics. <i>Chemical Reviews</i> , 2019, 119, 3418-3451.	23.0	1,131
14	Highly Efficient and Stable Perovskite-Silicon Tandem Solar Cells. , 2019, , .		0
15	Barrier Design to Prevent Metal-Induced Degradation and Improve Thermal Stability in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 1772-1778.	8.8	182
16	Encapsulating perovskite solar cells to withstand damp heat and thermal cycling. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2398-2406.	2.5	231
17	Tin-lead halide perovskites with improved thermal and air stability for efficient all-perovskite tandem solar cells. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2450-2459.	2.5	167