# Caleb C Boyd

List of Publications by Year
in descending order



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|---|---|---|---|
| 17 papers | 3,331 citations | 623734 14 h-index | 996975 15 g-index |
| 18 all docs | 18 docs citations | 18 times ranked | 4283 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Understanding Degradation Mechanisms and Improving Stability of Perovskite Photovoltaics. Chemical Reviews, 2019, 119, 3418-3451. | 47.7 | 1,131 |
| 2 | Triple-halide wideâ€“band gap perovskites with suppressed phase segregation for efficient tandems. Science, 2020, 367, 1097-1104. | 12.6 | 669 |
| 3 | Overcoming Redox Reactions at Perovskite-Nickel Oxide Interfaces to Boost Voltages in Perovskite Solar Cells. Joule, 2020, 4, 1759-1775. | 24.0 | 284 |
| 4 | Design of low bandgap tinâ€“lead halide perovskite solar cells to achieve thermal, atmospheric and operational stability. Nature Energy, 2019, 4, 939-947. | 39.5 | 235 |
| 5 | Encapsulating perovskite solar cells to withstand damp heat and thermal cycling. Sustainable Energy and Fuels, 2018, 2, 2398-2406. | 4.9 | 231 |
| 6 | Barrier Design to Prevent Metal-Induced Degradation and Improve Thermal Stability in Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 1772-1778. | 17.4 | 182 |
| 7 | Tinâ€“lead halide perovskites with improved thermal and air stability for efficient all-perovskite tandem solar cells. Sustainable Energy and Fuels, 2018, 2, 2450-2459. | 4.9 | 167 |
| 8 | Mobile Ion Concentration Measurement and Open-Access Band Diagram Simulation Platform for Halide Perovskite Solar Cells. Joule, 2020, 4, 109-127. | 24.0 | 117 |
| 9 | Improving Low-Bandgap Tinâ€“Lead Perovskite Solar Cells via Contact Engineering and Gas Quench Processing. ACS Energy Letters, 2020, 5, 1215-1223. | 17.4 | 78 |
| 10 | Csâ€Antisolvent Adduct Formation in Allâ€Inorganic Metal Halide Perovskites. Advanced Energy Materials, 2020, 10, 1903365. | 19.5 | 55 |
| 11 | Enhanced Nucleation of Atomic Layer Deposited Contacts Improves Operational Stability of Perovskite Solar Cells in Air. Advanced Energy Materials, 2019, 9, 1902353. | 19.5 | 47 |
| 12 | Learning from existing photovoltaic technologies to identify alternative perovskite module designs. Energy and Environmental Science, 2020, 13, 3393-3403. | 30.8 | 43 |
| 13 | Temperature Coefficients of Perovskite Photovoltaics for Energy Yield Calculations. ACS Energy Letters, 2021, 6, 2038-2047. | 17.4 | 43 |
| 14 | Incorporating Electrochemical Halide Oxidation into Driftâ€Diffusion Models to Explain Performance Losses in Perovskite Solar Cells under Prolonged Reverse Bias. Advanced Energy Materials, 2021, 11, 2002614. | 19.5 | 34 |
| 15 | Investigation of the Selectivity of Carrier Transport Layers in Wideâ€Bandgap Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100107. | 5.8 | 13 |
| 16 | Triple-halide Bandgap Tuning In Top Cells For Perovskite/Si Tandems. , 2019, , . | | 0 |
| 17 | Highly Efficient and Stable Perovskite-Silicon Tandem Solar Cells. , 2019, , . | | 0 |