

Ilka M Hermes

List of Publications by Year in descending order

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14
papers

1,049
citations

687363

13
h-index

1058476

14
g-index

14
all docs

14
docs citations

14
times ranked

2193
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Anisotropic carrier diffusion in single MAPbI ₃ grains correlates to their twin domains. Energy and Environmental Science, 2020, 13, 4168-4177. | 30.8 | 27 |
| 2 | Three-dimensional solvation structure of ethanol on carbonate minerals. Beilstein Journal of Nanotechnology, 2020, 11, 891-898. | 2.8 | 8 |
| 3 | Removal of Surface Oxygen Vacancies Increases Conductance Through TiO ₂ Thin Films for Perovskite Solar Cells. Journal of Physical Chemistry C, 2019, 123, 13458-13466. | 3.1 | 54 |
| 4 | Evidence of Tailoring the Interfacial Chemical Composition in Normal Structure Hybrid Organohalide Perovskites by a Self-Assembled Monolayer. ACS Applied Materials & Interfaces, 2018, 10, 5511-5518. | 8.0 | 32 |
| 5 | Orientation of Ferroelectric Domains and Disappearance upon Heating Methylammonium Lead Triiodide Perovskite from Tetragonal to Cubic Phase. ACS Applied Energy Materials, 2018, 1, 1534-1539. | 5.1 | 49 |
| 6 | The Interplay of Contact Layers: How the Electron Transport Layer Influences Interfacial Recombination and Hole Extraction in Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2018, 9, 6249-6256. | 4.6 | 68 |
| 7 | Know your full potential: Quantitative Kelvin probe force microscopy on nanoscale electrical devices. Beilstein Journal of Nanotechnology, 2018, 9, 1809-1819. | 2.8 | 47 |
| 8 | How the formation of interfacial charge causes hysteresis in perovskite solar cells. Energy and Environmental Science, 2018, 11, 2404-2413. | 30.8 | 289 |
| 9 | Chemical Identification at the Solid-Liquid Interface. Langmuir, 2017, 33, 125-129. | 3.5 | 50 |
| 10 | Local Time-Dependent Charging in a Perovskite Solar Cell. ACS Applied Materials & Interfaces, 2016, 8, 19402-19409. | 8.0 | 109 |
| 11 | Ferroelastic Fingerprints in Methylammonium Lead Iodide Perovskite. Journal of Physical Chemistry C, 2016, 120, 5724-5731. | 3.1 | 154 |
| 12 | Humidity-Induced Grain Boundaries in MAPbI ₃ Perovskite Films. Journal of Physical Chemistry C, 2016, 120, 6363-6368. | 3.1 | 103 |
| 13 | Low Temperature Synthesis and Characterization of AlScMo ₃ O ₁₂ . Materials, 2015, 8, 700-716. | 2.9 | 18 |
| 14 | Three-dimensional hydration layer mapping on the (10.4) surface of calcite using amplitude modulation atomic force microscopy. Nanotechnology, 2014, 25, 335703. | 2.6 | 41 |