

Lance M Wheeler

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

2,385
citations

394286

19
h-index

610775

24
g-index

25
all docs

25
docs citations

25
times ranked

3929
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible Methanolation of Metal Halide Perovskites. <i>Journal of the American Chemical Society</i> , 2022, 144, 667-672.	6.6	23
2	Complementary interface formation toward high-efficiency all-back-contact perovskite solar cells. <i>Cell Reports Physical Science</i> , 2021, 2, 100363.	2.8	17
3	Temperature Coefficients of Perovskite Photovoltaics for Energy Yield Calculations. <i>ACS Energy Letters</i> , 2021, 6, 2038-2047.	8.8	43
4	Reversible multicolor chromism in layered formamidinium metal halide perovskites. <i>Nature Communications</i> , 2020, 11, 5234.	5.8	48
5	Beyond Strain: Controlling the Surface Chemistry of CsPbI ₃ Nanocrystal Films for Improved Stability against Ambient Reactive Oxygen Species. <i>Chemistry of Materials</i> , 2020, 32, 7850-7860.	3.2	23
6	Strategies to Achieve High Circularly Polarized Luminescence from Colloidal Organic-Inorganic Hybrid Perovskite Nanocrystals. <i>ACS Nano</i> , 2020, 14, 8816-8825.	7.3	94
7	CSL Antisolvent Adduct Formation in All-Inorganic Metal Halide Perovskites. <i>Advanced Energy Materials</i> , 2020, 10, 1903365.	10.2	55
8	Detailed Balance Analysis of Photovoltaic Windows. <i>ACS Energy Letters</i> , 2019, 4, 2130-2136.	8.8	22
9	Atomically Thin Metal Sulfides. <i>Journal of the American Chemical Society</i> , 2019, 141, 12121-12127.	6.6	13
10	Thermodynamic Driving Force in the Spontaneous Formation of Inorganic Nanoparticle Solutions. <i>Nano Letters</i> , 2018, 18, 1888-1895.	4.5	27
11	Morphological Control of In _x Ga _{1-x} P Nanocrystals Synthesized in a Nonthermal Plasma. <i>Chemistry of Materials</i> , 2018, 30, 3131-3140.	3.2	3
12	Dynamic Evolution of 2D Layers within Perovskite Nanocrystals via Salt Pair Extraction and Reinsertion. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14029-14038.	1.5	14
13	Degradation of Highly Alloyed Metal Halide Perovskite Precursor Inks: Mechanism and Storage Solutions. <i>ACS Energy Letters</i> , 2018, 3, 979-985.	8.8	84
14	Roll-to-Roll Printing of Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 2558-2565.	8.8	199
15	Targeted Ligand-Exchange Chemistry on Cesium Lead Halide Perovskite Quantum Dots for High-Efficiency Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018, 140, 10504-10513.	6.6	303
16	Enhanced mobility CsPbI ₃ quantum dot arrays for record-efficiency, high-voltage photovoltaic cells. <i>Science Advances</i> , 2017, 3, eaao4204.	4.7	801
17	Characterization of Silicon Nanocrystal Surfaces by Multidimensional Solid-State NMR Spectroscopy. <i>Chemistry of Materials</i> , 2017, 29, 10339-10351.	3.2	37
18	Switchable photovoltaic windows enabled by reversible photothermal complex dissociation from methylammonium lead iodide. <i>Nature Communications</i> , 2017, 8, 1722.	5.8	107

#	ARTICLE	IF	CITATIONS
19	Structural and chemical evolution of methylammonium lead halide perovskites during thermal processing from solution. <i>Energy and Environmental Science</i> , 2016, 9, 2072-2082.	15.6	188
20	Broadband Absorbing Exciton-Plasmon Metafluids with Narrow Transparency Windows. <i>Nano Letters</i> , 2016, 16, 1472-1477.	4.5	23
21	All-Inorganic Germanium Nanocrystal Films by Cationic Ligand Exchange. <i>Nano Letters</i> , 2016, 16, 1949-1954.	4.5	32
22	Silyl Radical Abstraction in the Functionalization of Plasma-Synthesized Silicon Nanocrystals. <i>Chemistry of Materials</i> , 2015, 27, 6869-6878.	3.2	72
23	Hypervalent surface interactions for colloidal stability and doping of silicon nanocrystals. <i>Nature Communications</i> , 2013, 4, 2197.	5.8	107
24	Tunable Band Gap Emission and Surface Passivation of Germanium Nanocrystals Synthesized in the Gas Phase. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3392-3396.	2.1	45
25	Dual Phase Change Thermal Diodes with High Rectification for Thermal Management near Room Temperature. <i>Advanced Materials Technologies</i> , 0, , 2101060.	3.0	5