James A Raiford

List of Publications by Year
in descending order

20 papers	1,823 citations	567144 15 h-index	887953 17 g-index
20 all docs	20 docs citations	20 times ranked	2916 citing authors

#	Article	IF	Citations
1	The Importance of Decarbonylation Mechanisms in the Atomic Layer Deposition of Highâ€Quality Ru Films by Zeroâ€Oxidation State Ru(DMBD)(CO)₃. Small, 2022, 18, e2105513.	5.2	5
2	Tailoring the Surface of Metal Halide Perovskites to Enable the Atomic Layer Deposition of Metal Oxide Contacts. ACS Applied Energy Materials, 2021, 4, 9871-9880.	2.5	4
3	Applications of atomic layer deposition and chemical vapor deposition for perovskite solar cells. Energy and Environmental Science, 2020, 13, 1997-2023.	15.6	102
4	The Molybdenum Oxide Interface Limits the High-Temperature Operational Stability of Unencapsulated Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2349-2360.	8.8	49
5	Overcoming Redox Reactions at Perovskite-Nickel Oxide Interfaces to Boost Voltages in Perovskite Solar Cells. Joule, 2020, 4, 1759-1775.	11.7	284
6	Nucleation Effects in the Atomic Layer Deposition of Nickelâ€“Aluminum Oxide Thin Films. Chemistry of Materials, 2020, 32, 1925-1936.	3.2	15
7	Understanding Structureâ€“Property Relationships of MoO₃-Promoted Rh Catalysts for Syngas Conversion to Alcohols. Journal of the American Chemical Society, 2019, 141, 19655-19668.	6.6	41
8	Enhanced Nucleation of Atomic Layer Deposited Contacts Improves Operational Stability of Perovskite Solar Cells in Air. Advanced Energy Materials, 2019, 9, 1902353.	10.2	47
9	Opportunities for Atomic Layer Deposition in Emerging Energy Technologies. ACS Energy Letters, 2019, 4, 908-925.	8.8	81
10	Atomic layer deposition of vanadium oxide to reduce parasitic absorption and improve stability in nâ€“iâ€“p perovskite solar cells for tandems. Sustainable Energy and Fuels, 2019, 3, 1517-1525.	2.5	76
11	Stability of Tin-Lead Halide Perovskite Solar Cells. , 2019, , .		0
12	Design of low bandgap tinâ€“lead halide perovskite solar cells to achieve thermal, atmospheric and operational stability. Nature Energy, 2019, 4, 939-947.	19.8	235
13	Highly Efficient and Stable Perovskite-Silicon Tandem Solar Cells. , 2019, , .		0
14	Controlling Thin-Film Stress and Wrinkling during Perovskite Film Formation. ACS Energy Letters, 2018, 3, 1225-1232.	8.8	148
15	Interfacial Effects of Tin Oxide Atomic Layer Deposition in Metal Halide Perovskite Photovoltaics. Advanced Energy Materials, 2018, 8, 1800591.	10.2	62
16	Encapsulating perovskite solar cells to withstand damp heat and thermal cycling. Sustainable Energy and Fuels, 2018, 2, 2398-2406.	2.5	231
17	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.	2.5	167
18	Minimizing Current and Voltage Losses to Reach 25% Efficient Monolithic Two-Terminal Perovskiteâ€“Silicon Tandem Solar Cells. ACS Energy Letters, 2018, 3, 2173-2180.	8.8	194

#	Article	IF	Citations
19	Mayer Bond Order as a Metric of Complexation Effectiveness in Lead Halide Perovskite Solutions. Chemistry of Materials, 2017, 29, 2435-2444.	3.2	82
20	Designing Contact Layers and Surface Treatments to Overcome Performance Challenges for Perovskite Tandems. , 0, , .		0