James A Raiford

List of Publications by Year
in descending order

20	1,823	567144 15	887953 17
papers	citations	h-index	g-index

20	20	20	2916
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overcoming Redox Reactions at Perovskite-Nickel Oxide Interfaces to Boost Voltages in Perovskite Solar Cells. Joule, 2020, 4, 1759-1775.	11.7	284
2	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
3	Encapsulating perovskite solar cells to withstand damp heat and thermal cycling. Sustainable Energy and Fuels, 2018, 2, 2398-2406.	2.5	231
4	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
5	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
6	Controlling Thin-Film Stress and Wrinkling during Perovskite Film Formation. ACS Energy Letters, 2018, 3, 1225-1232.	8.8	148
7	Applications of atomic layer deposition and chemical vapor deposition for perovskite solar cells. Energy and Environmental Science, 2020, 13, 1997-2023.	15.6	102
8	Mayer Bond Order as a Metric of Complexation Effectiveness in Lead Halide Perovskite Solutions. Chemistry of Materials, 2017, 29, 2435-2444.	3.2	82
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	Interfacial Effects of Tin Oxide Atomic Layer Deposition in Metal Halide Perovskite Photovoltaics. Advanced Energy Materials, 2018, 8, 1800591.	10.2	62
12	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
13	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
14	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
15	Nucleation Effects in the Atomic Layer Deposition of Nickelâ€“Aluminum Oxide Thin Films. Chemistry of Materials, 2020, 32, 1925-1936.	3.2	15
16	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
17	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
18	Stability of Tin-Lead Halide Perovskite Solar Cells. , 2019, , .		0

#	Article	IF	Citations
19	Highly Efficient and Stable Perovskite-Silicon Tandem Solar Cells. , 2019, , .		0
20	Designing Contact Layers and Surface Treatments to Overcome Performance Challenges for Perovskite Tandems. , 0, , .		0