

Sean P Dunfield

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

23
papers

1,625
citations

16
h-index

29
g-index

29
ext. papers

2,199
ext. citations

19.9
avg, IF

4.6
L-index

#	Paper	IF	Citations
23	Electrochemical Screening of Contact Layers for Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2022 , 7, 683-689	20.1	1
22	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. <i>Science</i> , 2022 , 375, 71-76	33.3	51
21	Surface lattice engineering through three-dimensional lead iodide perovskitoid for high-performance perovskite solar cells. <i>Chem</i> , 2021 , 7, 774-785	16.2	18
20	Reducing Surface Recombination Velocity of Methylammonium-Free Mixed-Cation Mixed-Halide Perovskites via Surface Passivation. <i>Chemistry of Materials</i> , 2021 , 33, 5035-5044	9.6	13
19	Complementary interface formation toward high-efficiency all-back-contact perovskite solar cells. <i>Cell Reports Physical Science</i> , 2021 , 2, 100363	6.1	10
18	Carrier gradients and the role of charge selective contacts in lateral heterojunction all back contact perovskite solar cells. <i>Cell Reports Physical Science</i> , 2021 , 2, 100520	6.1	1
17	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. <i>Science</i> , 2021 , eabj2637	33.3	2
16	The Role of Dimethylammonium in Bandgap Modulation for Stable Halide Perovskites. <i>ACS Energy Letters</i> , 2020 , 5, 1856-1864	20.1	39
15	The Molybdenum Oxide Interface Limits the High-Temperature Operational Stability of Unencapsulated Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 2349-2360	20.1	31
14	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wide-Bandgap Perovskite Solar Cells Beyond 21%. <i>Solar Rrl</i> , 2020 , 4, 2070065	7.1	1
13	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wide-Bandgap Perovskite Solar Cells Beyond 21%. <i>Solar Rrl</i> , 2020 , 4, 2000082	7.1	46
12	Efficient, stable silicon tandem cells enabled by anion-engineered wide-bandgap perovskites. <i>Science</i> , 2020 , 368, 155-160	33.3	240
11	Digital alloy contact layers for perovskite solar cells. <i>Synthetic Metals</i> , 2020 , 266, 116412	3.6	
10	From Defects to Degradation: A Mechanistic Understanding of Degradation in Perovskite Solar Cell Devices and Modules. <i>Advanced Energy Materials</i> , 2020 , 10, 1904054	21.8	119
9	Surface-Activated Corrosion in Tin-Lead Halide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 3344-3351	3.6	31
8	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	9.6	11
7	Enhanced Charge Transport by Incorporating Formamidinium and Cesium Cations into Two-Dimensional Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11737-11741	16.4	48

6	Enhanced Charge Transport by Incorporating Formamidinium and Cesium Cations into Two-Dimensional Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 11863-11867	3.6	16
5	Enabling Flexible All-Perovskite Tandem Solar Cells. <i>Joule</i> , 2019 , 3, 2193-2204	27.8	211
4	Carrier lifetimes of $>1 \mu$ s in Sn-Pb perovskites enable efficient all-perovskite tandem solar cells. <i>Science</i> , 2019 , 364, 475-479	33.3	496
3	Reactions at noble metal contacts with methylammonium lead triiodide perovskites: Role of underpotential deposition and electrochemistry. <i>APL Materials</i> , 2019 , 7, 041103	5.7	47
2	Design of low bandgap tin/lead halide perovskite solar cells to achieve thermal, atmospheric and operational stability. <i>Nature Energy</i> , 2019 , 4, 939-947	62.3	152
1	Curtailling Perovskite Processing Limitations via Lamination at the Perovskite/Perovskite Interface. <i>ACS Energy Letters</i> , 2018 , 3, 1192-1197	20.1	17