

Sean P Dunfield

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3762732/sean-p-dunfield-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
22	Efficient, stable silicon tandem cells enabled by anion-engineered wide-bandgap perovskites. <i>Science</i> , 2020 , 368, 155-160	33.3	240
21	Enabling Flexible All-Perovskite Tandem Solar Cells. <i>Joule</i> , 2019 , 3, 2193-2204	27.8	211
20	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
19	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
18	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. <i>Science</i> , 2022 , 375, 71-76	33.3	51
17	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
16	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
15	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
14	The Role of Dimethylammonium in Bandgap Modulation for Stable Halide Perovskites. <i>ACS Energy Letters</i> , 2020 , 5, 1856-1864	20.1	39
13	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
12	Surface-Activated Corrosion in Tin/Lead Halide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 3344-3351	20.1	31
11	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
10	Curtailing Perovskite Processing Limitations via Lamination at the Perovskite/Perovskite Interface. <i>ACS Energy Letters</i> , 2018 , 3, 1192-1197	20.1	17
9	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
8	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
7	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

6	Complementary interface formation toward high-efficiency all-back-contact perovskite solar cells. <i>Cell Reports Physical Science</i> , 2021 , 2, 100363	6.1	10
5	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. <i>Science</i> , 2021 , eabj2637	33.3	2
4	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
3	Electrochemical Screening of Contact Layers for Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2022 , 7, 683-689	20.1	1
2	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
1	Digital alloy contact layers for perovskite solar cells. <i>Synthetic Metals</i> , 2020 , 266, 116412	3.6	