

# Dane W Dequilettes

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

6,327  
citations

394421

19  
h-index

677142

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

8865  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of microstructure on local carrier lifetime in perovskite solar cells. <i>Science</i> , 2015, 348, 683-686.	12.6	1,833
2	Photo-induced halide redistribution in organic-inorganic perovskite films. <i>Nature Communications</i> , 2016, 7, 11683.	12.8	778
3	Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. <i>Nature Communications</i> , 2015, 6, 10030.	12.8	620
4	Polymer-modified halide perovskite films for efficient and stable planar heterojunction solar cells. <i>Science Advances</i> , 2017, 3, e1700106.	10.3	588
5	Photoluminescence Lifetimes Exceeding 8 $\mu$ s and Quantum Yields Exceeding 30% in Hybrid Perovskite Thin Films by Ligand Passivation. <i>ACS Energy Letters</i> , 2016, 1, 438-444.	17.4	452
6	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. <i>ACS Nano</i> , 2015, 9, 9380-9393.	14.6	451
7	Hybrid perovskite films approaching the radiative limit with over 90% photoluminescence quantum efficiency. <i>Nature Photonics</i> , 2018, 12, 355-361.	31.4	408
8	Efficient perovskite solar cells by metal ion doping. <i>Energy and Environmental Science</i> , 2016, 9, 2892-2901.	30.8	372
9	Charge-Carrier Recombination in Halide Perovskites. <i>Chemical Reviews</i> , 2019, 119, 11007-11019.	47.7	197
10	A General Route to Enhance Polymer Solar Cell Performance using Plasmonic Nanoprisms. <i>Advanced Energy Materials</i> , 2014, 4, 1400206.	19.5	118
11	Zr Incorporation into TiO <sub>2</sub> Electrodes Reduces Hysteresis and Improves Performance in Hybrid Perovskite Solar Cells while Increasing Carrier Lifetimes. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 669-675.	4.6	106
12	Tracking Photoexcited Carriers in Hybrid Perovskite Semiconductors: Trap-Dominated Spatial Heterogeneity and Diffusion. <i>ACS Nano</i> , 2017, 11, 11488-11496.	14.6	105
13	The Role of Excitation Energy in Photobrightening and Photodegradation of Halide Perovskite Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2062-2069.	4.6	74
14	Benefit from Photon Recycling at the Maximum-Power Point of State-of-the-Art Perovskite Solar Cells. <i>Physical Review Applied</i> , 2019, 12, .	3.8	50
15	Design rules for the broad application of fast (<math>\leq 1\text{ s}</math>) methylamine vapor based, hybrid perovskite post deposition treatments. <i>RSC Advances</i> , 2016, 6, 27475-27484.	3.6	41
16	M13 Virus-Based Framework for High Fluorescence Enhancement. <i>Small</i> , 2019, 15, e1901233.	10.0	30
17	Bulk recrystallization for efficient mixed-cation mixed-halide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25511-25520.	10.3	27
18	Hot Hole Transfer Increasing Polaron Yields in Hybrid Conjugated Polymer/PbS Blends. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 208-211.	4.6	22

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19	Electrical Detection of Quantum Dot Hot Electrons Generated via a Mn <sup>2+</sup> -Enhanced Auger Process. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 126-130.	4.6	20
20	Direct Measurement of Acceptor Group Localization on Donor-Acceptor Polymers Using Resonant Auger Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5570-5578.	3.1	13
21	Impact of Photon Recycling, Grain Boundaries, and Nonlinear Recombination on Energy Transport in Semiconductors. <i>ACS Photonics</i> , 2022, 9, 110-122.	6.6	13
22	Maximizing the external radiative efficiency of hybrid perovskite solar cells. <i>Pure and Applied Chemistry</i> , 2020, 92, 697-706.	1.9	9