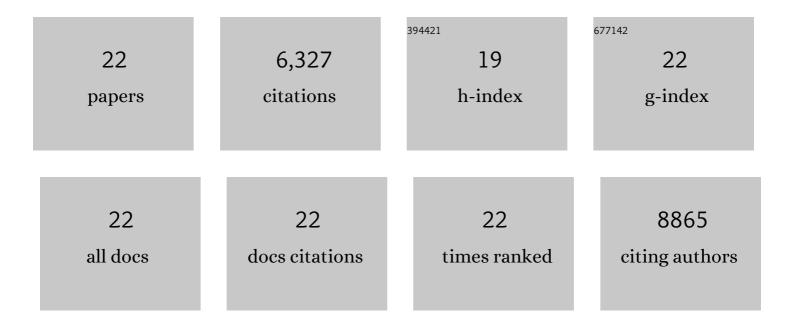
## Dane W Dequilettes

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9018259/publications.pdf Version: 2024-02-01



| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Impact of Photon Recycling, Grain Boundaries, and Nonlinear Recombination on Energy Transport in Semiconductors. ACS Photonics, 2022, 9, 110-122.   | 6.6  | 13        |
| 2  | Maximizing the external radiative efficiency of hybrid perovskite solar cells. Pure and Applied Chemistry, 2020, 92, 697-706.   | 1.9  | 9         |
| 3  | Benefit from Photon Recycling at the Maximum-Power Point of State-of-the-Art Perovskite Solar Cells.<br>Physical Review Applied, 2019, 12, .  | 3.8  | 50        |
| 4  | Charge-Carrier Recombination in Halide Perovskites. Chemical Reviews, 2019, 119, 11007-11019.   | 47.7 | 197       |
| 5  | M13 Virusâ€Based Framework for High Fluorescence Enhancement. Small, 2019, 15, e1901233.  | 10.0 | 30        |
| 6  | Bulk recrystallization for efficient mixed-cation mixed-halide perovskite solar cells. Journal of<br>Materials Chemistry A, 2019, 7, 25511-25520.   | 10.3 | 27        |
| 7  | The Role of Excitation Energy in Photobrightening and Photodegradation of Halide Perovskite Thin<br>Films. Journal of Physical Chemistry Letters, 2018, 9, 2062-2069.   | 4.6  | 74        |
| 8  | Hybrid perovskite films approaching the radiative limit with over 90% photoluminescence quantum efficiency. Nature Photonics, 2018, 12, 355-361.  | 31.4 | 408       |
| 9  | Electrical Detection of Quantum Dot Hot Electrons Generated via a Mn <sup>2+</sup> -Enhanced Auger<br>Process. Journal of Physical Chemistry Letters, 2017, 8, 126-130.   | 4.6  | 20        |
| 10 | Tracking Photoexcited Carriers in Hybrid Perovskite Semiconductors: Trap-Dominated Spatial<br>Heterogeneity and Diffusion. ACS Nano, 2017, 11, 11488-11496.   | 14.6 | 105       |
| 11 | Polymer-modified halide perovskite films for efficient and stable planar heterojunction solar cells.<br>Science Advances, 2017, 3, e1700106.  | 10.3 | 588       |
| 12 | Photoluminescence Lifetimes Exceeding 8 μs and Quantum Yields Exceeding 30% in Hybrid Perovskite<br>Thin Films by Ligand Passivation. ACS Energy Letters, 2016, 1, 438-444.   | 17.4 | 452       |
| 13 | Efficient perovskite solar cells by metal ion doping. Energy and Environmental Science, 2016, 9, 2892-2901.   | 30.8 | 372       |
| 14 | Photo-induced halide redistribution in organic–inorganic perovskite films. Nature Communications,<br>2016, 7, 11683.  | 12.8 | 778       |
| 15 | Design rules for the broad application of fast (<1 s) methylamine vapor based, hybrid perovskite post<br>deposition treatments. RSC Advances, 2016, 6, 27475-27484.   | 3.6  | 41        |
| 16 | Zr Incorporation into TiO <sub>2</sub> Electrodes Reduces Hysteresis and Improves Performance in<br>Hybrid Perovskite Solar Cells while Increasing Carrier Lifetimes. Journal of Physical Chemistry<br>Letters, 2015, 6, 669-675. | 4.6  | 106       |
| 17 | The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. ACS Nano, 2015, 9, 9380-9393.  | 14.6 | 451       |
| 18 | Impact of microstructure on local carrier lifetime in perovskite solar cells. Science, 2015, 348, 683-686.  | 12.6 | 1,833     |

DANE W DEQUILETTES

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Enhanced optoelectronic quality of perovskite thin films with hypophosphorous acid for planar heterojunction solar cells. Nature Communications, 2015, 6, 10030.          | 12.8 | 620       |
| 20 | A General Route to Enhance Polymer Solar Cell Performance using Plasmonic Nanoprisms. Advanced<br>Energy Materials, 2014, 4, 1400206.                                     | 19.5 | 118       |
| 21 | Hot Hole Transfer Increasing Polaron Yields in Hybrid Conjugated Polymer/PbS Blends. Journal of<br>Physical Chemistry Letters, 2014, 5, 208-211.                          | 4.6  | 22        |
| 22 | Direct Measurement of Acceptor Group Localization on Donor–Acceptor Polymers Using Resonant<br>Auger Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 5570-5578. | 3.1  | 13        |