

# Amanda J Neukirch

## List of Publications by Year in descending order

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29  
papers

7,813  
citations

394421

19  
h-index

501196

28  
g-index

30  
all docs

30  
docs citations

30  
times ranked

10696  
citing authors

#	ARTICLE	IF	CITATIONS
1	Induced Chirality in Halide Perovskite Clusters through Surface Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 686-693.	4.6	12
2	Point Defects in Two-Dimensional Ruddlesden-Popper Perovskites Explored with Ab Initio Calculations. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5213-5219.	4.6	11
3	Highly efficient photoelectric effect in halide perovskites for regenerative electron sources. <i>Nature Communications</i> , 2021, 12, 673.	12.8	13
4	Cesium-Coated Halide Perovskites as a Photocathode Material: Modeling Insights. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6269-6276.	4.6	7
5	Excited-State Properties of Defected Halide Perovskite Quantum Dots: Insights from Computation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1005-1011.	4.6	15
6	Nonadiabatic molecular dynamics analysis of hybrid Dion-Jacobson 2D leads iodide perovskites. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	9
7	An extended moments model of quantum efficiency for metals and semiconductors. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	6
8	Charge carrier dynamics in two-dimensional hybrid perovskites: Dion-Jacobson vs. Ruddlesden-Popper phases. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22009-22022.	10.3	72
9	Role of the Metal-Semiconductor Interface in Halide Perovskite Devices for Radiation Photon Counting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 45533-45540.	8.0	21
10	Hot Carrier Cooling and Recombination Dynamics of Chlorine-Doped Hybrid Perovskite Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8430-8436.	4.6	11
11	Correlation of Spatiotemporal Dynamics of Polarization and Charge Transport in Blended Hybrid Organic-Inorganic Perovskites on Macro- and Nanoscales. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15380-15388.	8.0	5
12	Optoelectronic Properties of Two-Dimensional Bromide Perovskites: Influences of Spacer Cations. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2955-2964.	4.6	50
13	Polarons in Halide Perovskites: A Perspective. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3271-3286.	4.6	110
14	Effects of Chlorine Mixing on Optoelectronics, Ion Migration, and Gamma-Ray Detection in Bromide Perovskites. <i>Chemistry of Materials</i> , 2020, 32, 1854-1863.	6.7	46
15	Lattice Expansion in Hybrid Perovskites: Effect on Optoelectronic Properties and Charge Carrier Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5000-5007.	4.6	60
16	Tuning Electronic Structure in Layered Hybrid Perovskites with Organic Spacer Substitution. <i>Nano Letters</i> , 2019, 19, 8732-8740.	9.1	41
17	Cation Alloying Delocalizes Polarons in Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3516-3524.	4.6	33
18	Interlayer-Decoupled Sc-Based Mxene with High Carrier Mobility and Strong Light-Harvesting Ability. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6915-6920.	4.6	49

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19	Geometry Distortion and Small Polaron Binding Energy Changes with Ionic Substitution in Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 7130-7136.	4.6	52
20	Excited-state vibrational dynamics toward the polaron in methylammonium lead iodide perovskite. <i>Nature Communications</i> , 2018, 9, 2525.	12.8	129
21	Influence of $\pi$ -conjugated cations and halogen substitution on the optoelectronic and excitonic properties of layered hybrid perovskites. <i>Physical Review Materials</i> , 2018, 2, .	2.4	24
22	The Effects of Electronic Impurities and Electron-Hole Recombination Dynamics on Large-Grain Organic-Inorganic Perovskite Photovoltaic Efficiencies. <i>Advanced Functional Materials</i> , 2016, 26, 4283-4292.	14.9	65
23	High-efficiency two-dimensional Ruddlesden-Popper perovskite solar cells. <i>Nature</i> , 2016, 536, 312-316.	27.8	2,767
24	Polaron Stabilization by Cooperative Lattice Distortion and Cation Rotations in Hybrid Perovskite Materials. <i>Nano Letters</i> , 2016, 16, 3809-3816.	9.1	245
25	Advances and Promises of Layered Halide Hybrid Perovskite Semiconductors. <i>ACS Nano</i> , 2016, 10, 9776-9786.	14.6	351
26	Light-activated photocurrent degradation and self-healing in perovskite solar cells. <i>Nature Communications</i> , 2016, 7, 11574.	12.8	584
27	High-efficiency solution-processed perovskite solar cells with millimeter-scale grains. <i>Science</i> , 2015, 347, 522-525.	12.6	2,978
28	Time-domain ab initio modeling of excitation dynamics in quantum dots. <i>Coordination Chemistry Reviews</i> , 2014, 263-264, 161-181.	18.8	41
29	Impact of Composition Engineering on Charge Carrier Cooling in Hybrid Perovskites: Computational Insights. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	6