Amanda J Neukirch

List of Publications by Year
in descending order

29	7,813	394421	501196
papers	citations	19 h-index	28 g-index

30	30	30	10696
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-efficiency solution-processed perovskite solar cells with millimeter-scale grains. Science, 2015, 347, 522-525.	12.6	2,978
2	High-efficiency two-dimensional Ruddlesdenâ€“Popper perovskite solar cells. Nature, 2016, 536, 312-316.	27.8	2,767
3	Light-activated photocurrent degradation and self-healing in perovskite solar cells. Nature Communications, 2016, 7, 11574.	12.8	584
4	Advances and Promises of Layered Halide Hybrid Perovskite Semiconductors. ACS Nano, 2016, 10, 9776-9786.	14.6	351
5	Polaron Stabilization by Cooperative Lattice Distortion and Cation Rotations in Hybrid Perovskite Materials. Nano Letters, 2016, 16, 3809-3816.	9.1	245
6	Excited-state vibrational dynamics toward the polaron in methylammonium lead iodide perovskite. Nature Communications, 2018, 9, 2525.	12.8	129
7	Polarons in Halide Perovskites: A Perspective. Journal of Physical Chemistry Letters, 2020, 11, 3271-3286.	4.6	110
8	Charge carrier dynamics in two-dimensional hybrid perovskites: Dionâ€“Jacobson vs. Ruddlesdenâ€“Popper phases. Journal of Materials Chemistry A, 2020, 8, 22009-22022.	10.3	72
9	The Effects of Electronic Impurities and Electronâ€“Hole Recombination Dynamics on Largeâ€Grain Organicâ€“Inorganic Perovskite Photovoltaic Efficiencies. Advanced Functional Materials, 2016, 26, 4283-4292.	14.9	65
10	Lattice Expansion in Hybrid Perovskites: Effect on Optoelectronic Properties and Charge Carrier Dynamics. Journal of Physical Chemistry Letters, 2019, 10, 5000-5007.	4.6	60
11	Geometry Distortion and Small Polaron Binding Energy Changes with Ionic Substitution in Halide Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 7130-7136.	4.6	52
12	Optoelectronic Properties of Two-Dimensional Bromide Perovskites: Influences of Spacer Cations. Journal of Physical Chemistry Letters, 2020, 11, 2955-2964.	4.6	50
13	Interlayer-Decoupled Sc-Based Mxene with High Carrier Mobility and Strong Light-Harvesting Ability. Journal of Physical Chemistry Letters, 2018, 9, 6915-6920.	4.6	49
14	Effects of Chlorine Mixing on Optoelectronics, Ion Migration, and Gamma-Ray Detection in Bromide Perovskites. Chemistry of Materials, 2020, 32, 1854-1863.	6.7	46
15	Time-domain ab initio modeling of excitation dynamics in quantum dots. Coordination Chemistry Reviews, 2014, 263-264, 161-181.	18.8	41
16	Tuning Electronic Structure in Layered Hybrid Perovskites with Organic Spacer Substitution. Nano Letters, 2019, 19, 8732-8740.	9.1	41
17	Cation Alloying Delocalizes Polarons in Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2019, 10, 3516-3524.	4.6	33
18	Influence of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ï€</mml:mi></mml:math> -conjugated cations and halogen substitution on the optoelectronic and excitonic properties of layered hybrid perovskites. Physical Review Materials, 2018, 2, .	2.4	24

#	Article	IF	Citations
19	Role of the Metalâ€“Semiconductor Interface in Halide Perovskite Devices for Radiation Photon Counting. ACS Applied Materials & Interfaces, 2020, 12, 45533-45540.	8.0	21
20	Excited-State Properties of Defected Halide Perovskite Quantum Dots: Insights from Computation. Journal of Physical Chemistry Letters, 2021, 12, 1005-1011.	4.6	15
21	Highly efficient photoelectric effect in halide perovskites for regenerative electron sources. Nature Communications, 2021, 12, 673.	12.8	13
22	Induced Chirality in Halide Perovskite Clusters through Surface Chemistry. Journal of Physical Chemistry Letters, 2022, 13, 686-693.	4.6	12
23	Hot Carrier Cooling and Recombination Dynamics of Chlorine-Doped Hybrid Perovskite Single Crystals. Journal of Physical Chemistry Letters, 2020, 11, 8430-8436.	4.6	11
24	Point Defects in Two-Dimensional Ruddlesdenâ€“Popper Perovskites Explored with Ab Initio Calculations. Journal of Physical Chemistry Letters, 2022, 13, 5213-5219.	4.6	11
25	Nonadiabatic molecular dynamics analysis of hybrid Dionâ€“Jacobson 2D leads iodide perovskites. Applied Physics Letters, 2021, 119, .	3.3	9
26	Cesium-Coated Halide Perovskites as a Photocathode Material: Modeling Insights. Journal of Physical Chemistry Letters, 2021, 12, 6269-6276.	4.6	7
27	An extended moments model of quantum efficiency for metals and semiconductors. Journal of Applied Physics, 2020, 128, .	2.5	6
28	Impact of Composition Engineering on Charge Carrier Cooling in Hybrid Perovskites: Computational Insights. Journal of Materials Chemistry C, 0, , .	5.5	6
29	Correlation of Spatiotemporal Dynamics of Polarization and Charge Transport in Blended Hybrid Organicâ€“Inorganic Perovskites on Macro- and Nanoscales. ACS Applied Materials & Interfaces, 2020, 12, 15380-15388.	8.0	5