

Rebecca L Milot

List of Publications by Year in descending order

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35
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citations

279798

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times ranked

8632
citing authors

#	ARTICLE	IF	CITATIONS
1	Limits to Electrical Mobility in Lead-Halide Perovskite Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3607-3617.	4.6	45
2	Layered Perovskites in Solar Cells: Structure, Optoelectronic Properties, and Device Design. <i>Advanced Energy Materials</i> , 2021, 11, 2003877.	19.5	49
3	Ultrafast photo-induced phonon hardening due to Pauli blocking in MAPbI ₃ single-crystal and polycrystalline perovskites. <i>JPhys Materials</i> , 2021, 4, 044017.	4.2	4
4	Metal composition influences optoelectronic quality in mixed-metal lead-tin triiodide perovskite solar absorbers. <i>Energy and Environmental Science</i> , 2020, 13, 1776-1787.	30.8	87
5	Optoelectronic Properties of Tin-Based Hybrid Metal Halide Perovskite Thin Films for Photovoltaics. , 2019, , .		0
6	Charge-Carrier Cooling and Polarization Memory Loss in Formamidinium Tin Triiodide. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6038-6047.	4.6	16
7	Charge-Carrier Dynamics, Mobilities, and Diffusion Lengths of 2D-3D Hybrid Butylammonium-Cesium-Formamidinium Lead Halide Perovskites. <i>Advanced Functional Materials</i> , 2019, 29, 1902656.	14.9	45
8	Time-resolved THz spectroscopy of metal-halide perovskite single crystals and polycrystalline thin films. , 2019, , .		3
9	Bimolecular recombination in methylammonium lead triiodide perovskite is an inverse absorption process. <i>Nature Communications</i> , 2018, 9, 293.	12.8	243
10	The Effects of Doping Density and Temperature on the Optoelectronic Properties of Formamidinium Tin Triiodide Thin Films. <i>Advanced Materials</i> , 2018, 30, e1804506.	21.0	156
11	Raman Spectrum of the Organic-Inorganic Halide Perovskite CH ₃ NH ₃ PbI ₃ from First Principles and High-Resolution Low-Temperature Raman Measurements. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21703-21717.	3.1	87
12	Interplay of Structural and Optoelectronic Properties in Formamidinium Mixed Tin-Lead Triiodide Perovskites. <i>Advanced Functional Materials</i> , 2018, 28, 1802803.	14.9	63
13	Impact of the Organic Cation on the Optoelectronic Properties of Formamidinium Lead Triiodide. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4502-4511.	4.6	51
14	Cs ₂ InAgCl ₆ : A New Lead-Free Halide Double Perovskite with Direct Band Gap. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 772-778.	4.6	752
15	Photovoltaic mixed-cation lead mixed-halide perovskites: links between crystallinity, photo-stability and electronic properties. <i>Energy and Environmental Science</i> , 2017, 10, 361-369.	30.8	482
16	Photon Reabsorption Masks Intrinsic Bimolecular Charge-Carrier Recombination in CH ₃ NH ₃ PbI ₃ Perovskite. <i>Nano Letters</i> , 2017, 17, 5782-5789.	9.1	147
17	Large-Area, Highly Uniform Evaporated Formamidinium Lead Triiodide Thin Films for Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 2799-2804.	17.4	116
18	Charge-carrier dynamics in hybrid metal halide perovskites for photovoltaics and light emission. , 2017, , .		0

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19	Band Tail Recombination in Hybrid Lead Iodide Perovskite. <i>Advanced Functional Materials</i> , 2017, 27, 1700860.	14.9	127
20	Charge-Carrier Dynamics in 2D Hybrid Metal Halide Perovskites. <i>Nano Letters</i> , 2016, 16, 7001-7007.	9.1	428
21	Radiative Monomolecular Recombination Boosts Amplified Spontaneous Emission in $\text{HC}(\text{NH}_2)_2\text{SnI}_3$ Perovskite Films. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4178-4184.	4.6	110
22	Electron-phonon coupling in hybrid lead halide perovskites. <i>Nature Communications</i> , 2016, 7, .	12.8	919
23	Perovskite-perovskite tandem photovoltaics with optimized band gaps. <i>Science</i> , 2016, 354, 861-865.	12.6	1,107
24	Formation Dynamics of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Following Two-Step Layer Deposition. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 96-102.	4.6	100
25	Effect of Structural Phase Transition on Charge-Carrier Lifetimes and Defects in $\text{CH}_3\text{NH}_3\text{SnI}_3$ Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1321-1326.	4.6	135
26	Charge-Carrier Dynamics and Mobilities in Formamidinium Lead Mixed Halide Perovskites. <i>Advanced Materials</i> , 2015, 27, 7938-7944.	21.0	343
27	Temperature-Dependent Charge-Carrier Dynamics in $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Thin Films. <i>Advanced Functional Materials</i> , 2015, 25, 6218-6227.	14.9	785
28	Vibrational Properties of the Organic-Inorganic Halide Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ from Theory and Experiment: Factor Group Analysis, First-Principles Calculations, and Low-Temperature Infrared Spectra. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25703-25718.	3.1	276
29	Band Tail States in FAPbI_3 : Characterization and Simulation. , 0, , .		0
30	The Role of Photon Reabsorption in Masking Intrinsic Bimolecular Charge-Carrier Recombination in $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite.. , 0, , .		0
31	Charge-Carrier Cooling and Polarization Memory Loss in Formamidinium Tin Triiodide. , 0, , .		0
32	The Role of Photon Reabsorption in Masking Intrinsic Bimolecular Charge-Carrier Recombination in $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite.. , 0, , .		0
33	Ultrafast Photoexcited Carrier Dynamics in 2D/3D Lead-Tin Perovskites with Tuneable Dimensionality. , 0, , .		0
34	Untangling Free Carrier and Exciton dynamics in Layered Hybrid Perovskites using Time-Resolved Terahertz Spectroscopy. , 0, , .		0
35	Optoelectronic Properties of Layered Metal Hybrid Perovskites. , 0, , .		0