

Eline M Hutter

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

4,756
citations

218677

26
h-index

233421

45
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51
all docs

51
docs citations

51
times ranked

7104
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable ways to break the efficiency limit of single-junction solar cells. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	4
2	Metal halide perovskite toxicity effects on <i>Arabidopsis thaliana</i> plants are caused by iodide ions. <i>IScience</i> , 2022, 25, 103583.	4.1	23
3	Favoring the Methane Oxychlorination Reaction over EuOCl by Synergistic Effects with Lanthanum. <i>ACS Catalysis</i> , 2022, 12, 5698-5710.	11.2	5
4	Halide Double-Perovskite Semiconductors beyond Photovoltaics. <i>ACS Energy Letters</i> , 2022, 7, 2128-2135.	17.4	54
5	The Complicated Morality of Named Inventions. <i>ACS Energy Letters</i> , 2021, 6, 565-567.	17.4	9
6	Single Trap States in Single CdSe Nanoplatelets. <i>ACS Nano</i> , 2021, 15, 7216-7225.	14.6	30
7	Accelerated Hot-Carrier Cooling in MAPbI ₃ Perovskite by Pressure-Induced Lattice Compression. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4118-4124.	4.6	8
8	Perovskite escape room: Which photons leave the film, and which are trapped inside?. <i>CheM</i> , 2021, 7, 845-846.	11.7	1
9	Chemical targets to deactivate biological and chemical toxins using surfaces and fabrics. <i>Nature Reviews Chemistry</i> , 2021, 5, 370-387.	30.2	47
10	Mechanistic Insights into the Lanthanide-Catalyzed Oxychlorination of Methane as Revealed by Operando Spectroscopy. <i>ACS Catalysis</i> , 2021, 11, 10574-10588.	11.2	8
11	Recombination and localization: Unfolding the pathways behind conductivity losses in Cs ₂ AgBiBr ₆ thin films. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	10
12	Reduced Barrier for Ion Migration in Mixed-Halide Perovskites. <i>ACS Applied Energy Materials</i> , 2021, 4, 13431-13437.	5.1	16
13	Thermodynamic Stabilization of Mixed-Halide Perovskites against Phase Segregation. <i>Cell Reports Physical Science</i> , 2020, 1, 100120.	5.6	56
14	Charge Carrier Dynamics upon Sub-bandgap Excitation in Methylammonium Lead Iodide Thin Films: Effects of Urbach Tail, Deep Defects, and Two-Photon Absorption. <i>ACS Energy Letters</i> , 2020, 5, 3821-3827.	17.4	37
15	Lattice Compression Increases the Activation Barrier for Phase Segregation in Mixed-Halide Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 3152-3158.	17.4	90
16	Pitfalls and prospects of optical spectroscopy to characterize perovskite-transport layer interfaces. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	28
17	Routes toward Long-Term Stability of Mixed-Halide Perovskites. <i>Matter</i> , 2020, 2, 800-802.	10.0	20
18	Quantifying Charge Carrier Mobilities and Recombination Rates in Metal Halide Perovskites from Time-Resolved Microwave Photoconductivity Measurements. <i>Advanced Energy Materials</i> , 2020, 10, 1903788.	19.5	43

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19	Charge Carriers Are Not Affected by the Relatively Slow-Rotating Methylammonium Cations in Lead Halide Perovskite Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5128-5134.	4.6	16
20	Crystal Orientation and Grain Size: Do They Determine Optoelectronic Properties of MAPbI ₃ Perovskite?. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6010-6018.	4.6	82
21	Comparing the Calculated Fermi Level Splitting with the Open-Circuit Voltage in Various Perovskite Cells. <i>ACS Energy Letters</i> , 2019, 4, 855-860.	17.4	19
22	Understanding the Role of Cesium and Rubidium Additives in Perovskite Solar Cells: Trap States, Charge Transport, and Recombination. <i>Advanced Energy Materials</i> , 2018, 8, 1703057.	19.5	184
23	Maximizing and stabilizing luminescence from halide perovskites with potassium passivation. <i>Nature</i> , 2018, 555, 497-501.	27.8	1,336
24	New Generation Hole Transporting Materials for Perovskite Solar Cells: Amide-Based Small Molecules with Nonconjugated Backbones. <i>Advanced Energy Materials</i> , 2018, 8, 1801605.	19.5	78
25	Band-Like Charge Transport in Cs ₂ AgBiBr ₆ and Mixed Antimony-Bismuth Cs ₂ AgBiSbBr ₆ Halide Double Perovskites. <i>ACS Omega</i> , 2018, 3, 11655-11662.	3.5	84
26	Thermally Activated Second-Order Recombination Hints toward Indirect Recombination in Fully Inorganic CsPbI ₃ Perovskites. <i>ACS Energy Letters</i> , 2018, 3, 2068-2069.	17.4	30
27	Charge Transfer from Methylammonium Lead Iodide Perovskite to Organic Transport Materials: Efficiencies, Transfer Rates, and Interfacial Recombination. <i>Advanced Energy Materials</i> , 2017, 7, 1602349.	19.5	101
28	Morphological and chemical transformations of single silica-coated CdSe/CdS nanorods upon fs-laser excitation. <i>Nanoscale</i> , 2017, 9, 4810-4818.	5.6	4
29	Photoluminescence from Radiative Surface States and Excitons in Methylammonium Lead Bromide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4258-4263.	4.6	46
30	Time-Resolved Photoconductivity Measurements on Organometal Halide Perovskites. <i>Series on Chemistry, Energy and the Environment</i> , 2017, , 179-232.	0.3	1
31	Metal Halide Perovskite Polycrystalline Films Exhibiting Properties of Single Crystals. <i>Joule</i> , 2017, 1, 155-167.	24.0	264
32	Vapour-Deposited Cesium Lead Iodide Perovskites: Microsecond Charge Carrier Lifetimes and Enhanced Photovoltaic Performance. <i>ACS Energy Letters</i> , 2017, 2, 1901-1908.	17.4	128
33	Interconversion between Free Charges and Bound Excitons in 2D Hybrid Lead Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26566-26574.	3.1	123
34	Direct-indirect character of the bandgap in methylammonium lead iodide perovskite. <i>Nature Materials</i> , 2017, 16, 115-120.	27.5	369
35	Efficient vacuum deposited p-i-n and n-i-p perovskite solar cells employing doped charge transport layers. <i>Energy and Environmental Science</i> , 2016, 9, 3456-3463.	30.8	410
36	Strontium Insertion in Methylammonium Lead Iodide: Long Charge Carrier Lifetime and High Fill Factor Solar Cells. <i>Advanced Materials</i> , 2016, 28, 9839-9845.	21.0	150

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37	The Impact of Phase Retention on the Structural and Optoelectronic Properties of Metal Halide Perovskites. <i>Advanced Materials</i> , 2016, 28, 10757-10763.	21.0	65
38	Charge Carrier Lifetimes Exceeding 15 μ s in Methylammonium Lead Iodide Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 923-928.	4.6	226
39	Mechanism of Charge Transfer and Recombination Dynamics in Organo Metal Halide Perovskites and Organic Electrodes, PCBM, and Spiro-OMeTAD: Role of Dark Carriers. <i>Journal of the American Chemical Society</i> , 2015, 137, 16043-16048.	13.7	101
40	Charge Carriers in Planar and Meso-Structured Organic-Inorganic Perovskites: Mobilities, Lifetimes, and Concentrations of Trap States. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3082-3090.	4.6	257
41	Particle Shape Anisotropy in Pickering Emulsions: Cubes and Peanuts. <i>Langmuir</i> , 2014, 30, 955-964.	3.5	119
42	Conformal and Atomic Characterization of Ultrathin CdSe Platelets with a Helical Shape. <i>Nano Letters</i> , 2014, 14, 6257-6262.	9.1	46
43	Method To Incorporate Anisotropic Semiconductor Nanocrystals of All Shapes in an Ultrathin and Uniform Silica Shell. <i>Chemistry of Materials</i> , 2014, 26, 1905-1911.	6.7	17
44	Accelerated Hot-Carrier Cooling in MAPbI ₃ Perovskite by Pressure-Induced Lattice Compression. , 0, , .		0
45	Effect of the organic cation on 2D organic-inorganic Perovskites. , 0, , .		0
46	Crystal Orientation and Grain Size: Do They Matter for Optoelectronic Properties of MAPbI ₃ Perovskite?. , 0, , .		0
47	Crystal Orientation and Grain Size: Do They Matter for Optoelectronic Properties of MAPbI ₃ Perovskite?. , 0, , .		0