

Nadja Giesbrecht

List of Publications by Year in descending order

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26
papers

2,402
citations

394421

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552781

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docs citations

27
times ranked

4644
citing authors

#	ARTICLE	IF	CITATIONS
1	Blue-Green Color Tunable Solution Processable Organolead Chloride–Bromide Mixed Halide Perovskites for Optoelectronic Applications. <i>Nano Letters</i> , 2015, 15, 6095-6101.	9.1	461
2	Understanding charge transport in lead iodide perovskite thin-film field-effect transistors. <i>Science Advances</i> , 2017, 3, e1601935.	10.3	354
3	Capturing the Sun: A Review of the Challenges and Perspectives of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700264.	19.5	295
4	Efficient Planar Heterojunction Perovskite Solar Cells Based on Formamidinium Lead Bromide. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2791-2795.	4.6	250
5	A general approach for hysteresis-free, operationally stable metal halide perovskite field-effect transistors. <i>Science Advances</i> , 2020, 6, eaaz4948.	10.3	129
6	Synthesis of Perfectly Oriented and Micrometer-Sized MAPbBr ₃ Perovskite Crystals for Thin-Film Photovoltaic Applications. <i>ACS Energy Letters</i> , 2016, 1, 150-154.	17.4	103
7	Roadmap on organic–inorganic hybrid perovskite semiconductors and devices. <i>APL Materials</i> , 2021, 9, .	5.1	102
8	A Closer Look into Two-Step Perovskite Conversion with X-ray Scattering. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1265-1269.	4.6	96
9	Influence of the orientation of methylammonium lead iodide perovskite crystals on solar cell performance. <i>APL Materials</i> , 2014, 2, .	5.1	95
10	Temperature-dependent studies of exciton binding energy and phase-transition suppression in (Cs,FA,MA)Pb(I,Br) ₃ perovskites. <i>APL Materials</i> , 2019, 7, .	5.1	73
11	Toward Tailored Film Morphologies: The Origin of Crystal Orientation in Hybrid Perovskite Thin Films. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600403.	3.7	67
12	Temperature-Dependent Ambipolar Charge Carrier Mobility in Large-Crystal Hybrid Halide Perovskite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20838-20844.	8.0	49
13	Prospects of lead-free perovskite-inspired materials for photovoltaic applications. <i>Energy and Environmental Science</i> , 2020, 13, 4691-4716.	30.8	47
14	Single-crystal-like optoelectronic-properties of MAPbI ₃ perovskite polycrystalline thin films. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4822-4828.	10.3	46
15	Grain Boundaries Act as Solid Walls for Charge Carrier Diffusion in Large Crystal MAPI Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7974-7981.	8.0	40
16	Nanostructures in Te/Sb/Ge/Ag (TAGS) Thermoelectric Materials Induced by Phase Transitions Associated with Vacancy Ordering. <i>Inorganic Chemistry</i> , 2014, 53, 7722-7729.	4.0	39
17	Optoelectronic Properties of Cs ₂ AgBiBr ₆ Thin Films: The Influence of Precursor Stoichiometry. <i>ACS Applied Energy Materials</i> , 2020, 3, 11597-11609.	5.1	27
18	Contactless Visualization of Fast Charge Carrier Diffusion in Hybrid Halide Perovskite Thin Films. <i>ACS Photonics</i> , 2016, 3, 255-261.	6.6	26

#	ARTICLE	IF	CITATIONS
19	Universal Nanoparticle Wetting Agent for Upscaling Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 12948-12957.	8.0	22
20	TAGS-related indium compounds and their thermoelectric properties in the solid solution series $(\text{GeTe})_x(\text{AgIn})_y(\text{Sb})_{1-x-y}(\text{Te})_2$ ($x = 1$; $y = 0.5$) https://doi.org/10.1002/advma.201901000 / Over	11.0	0
21	Solution Processable Direct Bandgap Copper-Silver-Bismuth Iodide Photovoltaics: Compositional Control of Dimensionality and Optoelectronic Properties. Advanced Energy Materials, 2022, 12, .	19.5	17
22	Heterostructures of skutterudites and germanium antimony tellurides – structure analysis and thermoelectric properties of bulk samples. Journal of Materials Chemistry C, 2015, 3, 10525-10533.	5.5	13
23	Formation of stable 2D methylammonium antimony iodide phase for lead-free perovskite-like solar cells. JPhys Energy, 2020, 2, 024007.	5.3	13
24	Controlling crystal growth by chloride-assisted synthesis: Towards optimized charge transport in hybrid halide perovskites. Solar Energy Materials and Solar Cells, 2017, 166, 269-275.	6.2	8
25	Perovskite Solar Cells: Capturing the Sun: A Review of the Challenges and Perspectives of Perovskite Solar Cells (Adv. Energy Mater. 16/2017). Advanced Energy Materials, 2017, 7, .	19.5	3
26	Local Disorder at the Phase Transition Interrupts Ambipolar Charge Carrier Transport in Large Crystal Methylammonium Lead Iodide Thin Films. Journal of Physical Chemistry C, 2020, 124, 20757-20764.	3.1	0