Severin N Habisreutinger

List of Publications by Year
in descending order

38 papers	8,449 citations	147566 31 h-index	288905 40 g-index
41 all docs	41 docs citations	41 times ranked	12041 citing authors

#	Article	IF	Citations
1	Photocatalytic Reduction of CO₂ on TiO₂ and Other Semiconductors. Angewandte Chemie - International Edition, 2013, 52, 7372-7408.	7.2	2,481
2	Carbon Nanotube/Polymer Composites as a Highly Stable Hole Collection Layer in Perovskite Solar Cells. Nano Letters, 2014, 14, 5561-5568.	4.5	1,073
3	Stability of Metal Halide Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1500963.	10.2	1,045
4	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. ACS Nano, 2015, 9, 9380-9393.	7.3	451
5	Enabling Flexible All-Perovskite Tandem Solar Cells. Joule, 2019, 3, 2193-2204.	11.7	331
6	A low viscosity, low boiling point, clean solvent system for the rapid crystallisation of highly specular perovskite films. Energy and Environmental Science, 2017, 10, 145-152.	15.6	319
7	Hysteresis Index: A Figure without Merit for Quantifying Hysteresis in Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 2472-2476.	8.8	257
8	Enhancing electron diffusion length in narrow-bandgap perovskites for efficient monolithic perovskite tandem solar cells. Nature Communications, 2019, 10, 4498.	5.8	234
9	Oxygen Degradation in Mesoporous Al₂O₃/CH₃NH₃PbI_{3â€‹}<i>_x</i>Cl<i>_x</i> Perovskite Solar Cells: Kinetics and Mechanisms. Advanced Energy Materials, 2016, 6, 1600014.	10.2	211
10	Hydrophobic Organic Hole Transporters for Improved Moisture Resistance in Metal Halide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 5981-5989.	4.0	184
11	Enhanced Hole Extraction in Perovskite Solar Cells Through Carbon Nanotubes. Journal of Physical Chemistry Letters, 2014, 5, 4207-4212.	2.1	156
12	Research Update: Strategies for improving the stability of perovskite solar cells. APL Materials, 2016, 4, .	2.2	126
13	Assessing health and environmental impacts of solvents for producing perovskite solar cells. Nature Sustainability, 2021, 4, 277-285.	11.5	117
14	Stability in Perovskite Photovoltaics: A Paradigm for Newfangled Technologies. ACS Energy Letters, 2018, 3, 2136-2143.	8.8	113
15	Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. Energy and Environmental Science, 2019, 12, 3063-3073.	15.6	111
16	Carbon Nanotubes in Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1601839.	10.2	107
17	Investigating the Role of 4â€‹<i>Tert</i> Butylpyridine in Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1601079.	10.2	106
18	Strategies to Achieve High Circularly Polarized Luminescence from Colloidal Organicâ€"Inorganic Hybrid Perovskite Nanocrystals. ACS Nano, 2020, 14, 8816-8825.	7.3	94

#	Article	IF	Citations
19	Elucidating the Role of a Tetrafluoroborateâ€Based Ionic Liquid at the nâ€Type Oxide/Perovskite Interface. Advanced Energy Materials, 2020, 10, 1903231.	10.2	81
20	Efficient and Stable Perovskite Solar Cells Using Molybdenum Tris(dithiolene)s as p-Dopants for Spiro-OMeTAD. ACS Energy Letters, 2017, 2, 2044-2050.	8.8	79
21	Dopant-Free Planar nâ€"iâ€"p Perovskite Solar Cells with Steady-State Efficiencies Exceeding 18%. ACS Energy Letters, 2017, 2, 622-628.	8.8	73
22	Conductivity Tuning via Doping with Electron Donating and Withdrawing Molecules in Perovskite CsPbI₃ Nanocrystal Films. Advanced Materials, 2019, 31, e1902250.	11.1	66
23	The Role of Dimethylammonium in Bandgap Modulation for Stable Halide Perovskites. ACS Energy Letters, 2020, 5, 1856-1864.	8.8	65
24	CsIâ€Antisolvent Adduct Formation in Allâ€Inorganic Metal Halide Perovskites. Advanced Energy Materials, 2020, 10, 1903365.	10.2	55
25	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. ACS Energy Letters, 2018, 3, 1233-1240.	8.8	54
26	Low-energy room-temperature optical switching in mixed-dimensionality nanoscale perovskite heterojunctions. Science Advances, 2021, 7, .	4.7	41
27	An ultrafast carbon nanotube terahertz polarisation modulator. Journal of Applied Physics, 2014, 115, .	1.1	36
28	Novel Carbon Nanotubeâ€Conjugated Polymer Nanohybrids Produced By Multiple Polymer Processing. Advanced Materials, 2013, 25, 4365-4371.	11.1	34
29	Rapid Charge-Transfer Cascade through SWCNT Composites Enabling Low-Voltage Losses for Perovskite Solar Cells. ACS Energy Letters, 2019, 4, 1872-1879.	8.8	33
30	Solubilization of Carbon Nanotubes with Ethylene-Vinyl Acetate for Solution-Processed Conductive Films and Charge Extraction Layers in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 1185-1191.	4.0	31
31	Beyond Strain: Controlling the Surface Chemistry of CsPbI₃ Nanocrystal Films for Improved Stability against Ambient Reactive Oxygen Species. Chemistry of Materials, 2020, 32, 7850-7860.	3.2	23
32	Exciton-Dominated Core-Level Absorption Spectra of Hybrid Organicâ€"Inorganic Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 1852-1858.	2.1	22
33	Carbon nanotubes in high-performance perovskite photovoltaics and other emerging optoelectronic applications. Journal of Applied Physics, 2021, 129, .	1.1	15
34	Chemical Interaction at the MoO₃/CH₃NH₃PbI_{3â€"<i>x</i>}Cl<i>_x</i> Interface. ACS Applied Materials & Interfaces, 2021, 13, 17085-17092.	4.0	13
35	Utilizing Nonpolar Organic Solvents for the Deposition of Metal-Halide Perovskite Films and the Realization of Organic Semiconductor/Perovskite Composite Photovoltaics. ACS Energy Letters, 2022, 7, 1246-1254.	8.8	12
36	Building perovskite solar cells that last. Science, 2022, 377, 265-266.	6.0	7

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37	Carbon Nanotubes for Quantum Dot Photovoltaics with Enhanced Light Management and Charge Transport. ACS Photonics, 2018, 5, 4854-4863.	3.2	4
38	Halide Organic Photovoltaics for Energy: Hybrid Perovskites for Solar Cells. , 2022, , 1-59.		0