Severin N Habisreutinger

List of Publications by Citations

36 papers	6,553 citations	27 h-index	41 g-index
41 ext. papers	7,485 ext. citations	17 avg, IF	6.3 L-index

#	Paper	IF	Citations
36	Photocatalytic reduction of CO2 on TiO2 and other semiconductors. *Angewandte Chemie - International Edition*, **2013**, 52, 7372-408	16.4	2023
35	Carbon nanotube/polymer composites as a highly stable hole collection layer in perovskite solar cells. *Nano Letters*, **2014**, 14, 5561-8	11.5	944
34	Stability of Metal Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1500963	21.8	861
33	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. *ACS Nano*, **2015** , 9, 9380-93	16.7	366
32	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	35.4	253
31	Enabling Flexible All-Perovskite Tandem Solar Cells. *Joule*, **2019**, 3, 2193-2204	27.8	211
30	Photokatalytische Reduktion von CO2 an TiO2 und anderen Halbleitern. *Angewandte Chemie*, **2013**, 125, 7516-7557	3.6	164
29	Oxygen Degradation in Mesoporous Al2O3/CH3NH3PbI3-xClx Perovskite Solar Cells: Kinetics and Mechanisms. *Advanced Energy Materials*, **2016**, 6, 1600014	21.8	159
28	Hydrophobic Organic Hole Transporters for Improved Moisture Resistance in Metal Halide Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 5981-9	9.5	158
27	Hysteresis Index: A Figure without Merit for Quantifying Hysteresis in Perovskite Solar Cells. *ACS Energy Letters*, **2018**, 3, 2472-2476	20.1	150
26	Enhancing electron diffusion length in narrow-bandgap perovskites for efficient monolithic perovskite tandem solar cells. *Nature Communications*, **2019**, 10, 4498	17.4	138
25	Enhanced Hole Extraction in Perovskite Solar Cells Through Carbon Nanotubes. *Journal of Physical Chemistry Letters*, **2014**, 5, 4207-12	6.4	126
24	Research Update: Strategies for improving the stability of perovskite solar cells. *APL Materials*, **2016**, 4, 091503	5.7	106
23	Stability in Perovskite Photovoltaics: A Paradigm for Newfangled Technologies. *ACS Energy Letters*, **2018**, 3, 2136-2143	20.1	86
22	Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. *Energy and Environmental Science*, **2019**, 12, 3063-3073	35.4	77
21	Investigating the Role of 4-Tert Butylpyridine in Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1601079	21.8	76
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	20.1	63

19	Dopant-Free Planar n-i-p Perovskite Solar Cells with Steady-State Efficiencies Exceeding 18%. *ACS Energy Letters*, **2017**, 2, 622-628	20.1	58
18	Elucidating the Role of a Tetrafluoroborate-Based Ionic Liquid at the n-Type Oxide/Perovskite Interface. *Advanced Energy Materials*, **2020**, 10, 1903231	21.8	50
17	Assessing health and environmental impacts of solvents for producing perovskite solar cells. *Nature Sustainability*, **2021**, 4, 277-285	22.1	48
16	Conductivity Tuning via Doping with Electron Donating and Withdrawing Molecules in Perovskite CsPbI Nanocrystal Films. *Advanced Materials*, **2019**, 31, e1902250	24	47
15	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. *ACS Energy Letters*, **2018**, 3, 1233-1240	20.1	43
14	The Role of Dimethylammonium in Bandgap Modulation for Stable Halide Perovskites. *ACS Energy Letters*, **2020**, 5, 1856-1864	20.1	39
13	CsI-Antisolvent Adduct Formation in All-Inorganic Metal Halide Perovskites. *Advanced Energy Materials*, **2020**, 10, 1903365	21.8	35
12	Strategies to Achieve High Circularly Polarized Luminescence from Colloidal Organic-Inorganic Hybrid Perovskite Nanocrystals. *ACS Nano*, **2020**, 14, 8816-8825	16.7	33
11	An ultrafast carbon nanotube terahertz polarisation modulator. *Journal of Applied Physics*, **2014**, 115, 203108	2.5	25
10	Rapid Charge-Transfer Cascade through SWCNT Composites Enabling Low-Voltage Losses for Perovskite Solar Cells. *ACS Energy Letters*, **2019**, 4, 1872-1879	20.1	24
9	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	9.5	18
8	Exciton-Dominated Core-Level Absorption Spectra of Hybrid Organic-Inorganic Lead Halide Perovskites. *Journal of Physical Chemistry Letters*, **2018**, 9, 1852-1858	6.4	16
7	Low-energy room-temperature optical switching in mixed-dimensionality nanoscale perovskite heterojunctions. *Science Advances*, **2021**, 7,	14.3	15
6	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	9.6	11
5	Chemical Interaction at the MoO/CHNHPbICl Interface. *ACS Applied Materials & Interfaces*, **2021**, 13, 17085-17092	9.5	4
4	Carbon nanotubes in high-performance perovskite photovoltaics and other emerging optoelectronic applications. *Journal of Applied Physics*, **2021**, 129, 010903	2.5	4
3	Carbon Nanotubes for Quantum Dot Photovoltaics with Enhanced Light Management and Charge Transport. *ACS Photonics*, **2018**, 5, 4854-4863	6.3	3
2	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	20.1	1

1 Halide Organic Photovoltaics for Energy: Hybrid Perovskites for Solar Cells **2022**, 1-59