Maximilian T Hrantner

List of Publications by Citations

18 papers	5,872 citations	18 h-index	18 g-index
18 ext. papers	6,595 ext. citations	21.7 avg, IF	5.69 L-index

#	Paper	IF	Citations
18	A mixed-cation lead mixed-halide perovskite absorber for tandem solar cells. *Science*, **2016**, 351, 151-5	33.3	2024
17	Bandgap-Tunable Cesium Lead Halide Perovskites with High Thermal Stability for Efficient Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1502458	21.8	992
16	Ultrasmooth organic-inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. *Nature Communications*, **2015**, 6, 6142	17.4	695
15	Optical properties and limiting photocurrent of thin-film perovskite solar cells. *Energy and Environmental Science*, **2015**, 8, 602-609	35.4	335
14	C60 as an Efficient n-Type Compact Layer in Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 2399-405	6.4	271
13	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
12	Metal halide perovskite tandem and multiple-junction photovoltaics. *Nature Reviews Chemistry*, **2017**, 1,	34.6	236
11	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. *Advanced Materials*, **2016**, 28, 923-9	24	209
10	The Potential of Multijunction Perovskite Solar Cells. *ACS Energy Letters*, **2017**, 2, 2506-2513	20.1	180
9	Well-Defined Nanostructured, Single-Crystalline TiO2 Electron Transport Layer for Efficient Planar Perovskite Solar Cells. *ACS Nano*, **2016**, 10, 6029-36	16.7	161
8	Predicting and optimising the energy yield of perovskite-on-silicon tandem solar cells under real world conditions. *Energy and Environmental Science*, **2017**, 10, 1983-1993	35.4	142
7	Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. *Energy and Environmental Science*, **2019**, 12, 169-176	35.4	76
6	In situ simultaneous photovoltaic and structural evolution of perovskite solar cells during film formation. *Energy and Environmental Science*, **2018**, 11, 383-393	35.4	67
5	Shunt-Blocking Layers for Semitransparent Perovskite Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1500837	4.6	60
4	Inducing swift nucleation morphology control for efficient planar perovskite solar cells by hot-air quenching. *Journal of Materials Chemistry A*, **2017**, 5, 3812-3818	13	52
3	Interfacial electron accumulation for efficient homo-junction perovskite solar cells. *Nano Energy*, **2016**, 28, 269-276	17.1	49
2	Monolithic Wide Band Gap Perovskite/Perovskite Tandem Solar Cells with Organic Recombination Layers. *Journal of Physical Chemistry C*, **2017**, 121, 27256-27262	3.8	35

1	Near-neutral-colored semitransparent perovskite films using a combination of colloidal self-assembly and plasma etching. *Solar Energy Materials and Solar Cells*, **2017**, 160, 193-202	6.4	35