

# Maximilian T Hrantner

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 169-176	35.4	76
17	In situ simultaneous photovoltaic and structural evolution of perovskite solar cells during film formation. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 383-393	35.4	67
16	The Potential of Multijunction Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2506-2513	20.1	180
15	Monolithic Wide Band Gap Perovskite/Perovskite Tandem Solar Cells with Organic Recombination Layers. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 27256-27262	3.8	35
14	Predicting and optimising the energy yield of perovskite-on-silicon tandem solar cells under real world conditions. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1983-1993	35.4	142
13	Metal halide perovskite tandem and multiple-junction photovoltaics. <i>Nature Reviews Chemistry</i> , <b>2017</b> , 1,	34.6	236
12	Near-neutral-colored semitransparent perovskite films using a combination of colloidal self-assembly and plasma etching. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 160, 193-202	6.4	35
11	Inducing swift nucleation morphology control for efficient planar perovskite solar cells by hot-air quenching. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3812-3818	13	52
10	A low viscosity, low boiling point, clean solvent system for the rapid crystallisation of highly specular perovskite films. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 145-152	35.4	253
9	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. <i>Advanced Materials</i> , <b>2016</b> , 28, 923-9	24	209
8	A mixed-cation lead mixed-halide perovskite absorber for tandem solar cells. <i>Science</i> , <b>2016</b> , 351, 151-5	33.3	2024
7	Interfacial electron accumulation for efficient homo-junction perovskite solar cells. <i>Nano Energy</i> , <b>2016</b> , 28, 269-276	17.1	49
6	Bandgap-Tunable Cesium Lead Halide Perovskites with High Thermal Stability for Efficient Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502458	21.8	992
5	Shunt-Blocking Layers for Semitransparent Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500837	4.6	60
4	Well-Defined Nanostructured, Single-Crystalline TiO <sub>2</sub> Electron Transport Layer for Efficient Planar Perovskite Solar Cells. <i>ACS Nano</i> , <b>2016</b> , 10, 6029-36	16.7	161
3	Optical properties and limiting photocurrent of thin-film perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 602-609	35.4	335
2	C60 as an Efficient n-Type Compact Layer in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2399-405	6.4	271

- 1 Ultrasmooth organic-inorganic perovskite thin-film formation and crystallization for efficient planar heterojunction solar cells. *Nature Communications*, **2015**, 6, 6142 17.4 695