JÃ©rÃ©mie Werner

List of Publications by Year
in descending order

36 papers	6,055 citations	236612 25 h-index	433756 31 g-index
38 all docs	38 docs citations	38 times ranked	6334 citing authors

#	Article	IF	Citations
1	Multimodal Microscale Imaging of Textured Perovskiteâ€“Silicon Tandem Solar Cells. ACS Energy Letters, 2021, 6, 2293-2304.	8.8	25
2	Effects of X-rays on Perovskite Solar Cells. Journal of Physical Chemistry C, 2020, 124, 17949-17956.	1.5	21
3	Learning from existing photovoltaic technologies to identify alternative perovskite module designs. Energy and Environmental Science, 2020, 13, 3393-3403.	15.6	43
4	Choose Your Own Adventure: Fabrication of Monolithic Allâ€Perovskite Tandem Photovoltaics. Advanced Materials, 2020, 32, e2003312.	11.1	39
5	Improving Low-Bandgap Tinâ€“Lead Perovskite Solar Cells via Contact Engineering and Gas Quench Processing. ACS Energy Letters, 2020, 5, 1215-1223.	8.8	78
6	Triple-halide wideâ€“band gap perovskites with suppressed phase segregation for efficient tandems. Science, 2020, 367, 1097-1104.	6.0	669
7	Overcoming Redox Reactions at Perovskite-Nickel Oxide Interfaces to Boost Voltages in Perovskite Solar Cells. Joule, 2020, 4, 1759-1775.	11.7	284
8	I₂ vapor-induced degradation of formamidinium lead iodide based perovskite solar cells under heatâ€“light soaking conditions. Energy and Environmental Science, 2019, 12, 3074-3088.	15.6	131
9	Solar Water Splitting with Perovskite/Silicon Tandem Cell and TiC-Supported Pt Nanocluster Electrocatalyst. Joule, 2019, 3, 2930-2941.	11.7	85
10	Enabling Flexible All-Perovskite Tandem Solar Cells. Joule, 2019, 3, 2193-2204.	11.7	331
11	25.1%-Efficient Monolithic Perovskite/Silicon Tandem Solar Cell Based on a <i>p</i>-type Monocrystalline Textured Silicon Wafer and High-Temperature Passivating Contacts. ACS Energy Letters, 2019, 4, 844-845.	8.8	152
12	Design of low bandgap tinâ€“lead halide perovskite solar cells to achieve thermal, atmospheric and operational stability. Nature Energy, 2019, 4, 939-947.	19.8	235
13	Toward Annealingâ€Stable Molybdenumâ€Oxideâ€Based Holeâ€Selective Contacts For Silicon Photovoltaics. Solar Rrl, 2018, 2, 1700227.	3.1	42
14	Complex Refractive Indices of Cesiumâ€“Formamidinium-Based Mixed-Halide Perovskites with Optical Band Gaps from 1.5 to 1.8 eV. ACS Energy Letters, 2018, 3, 742-747.	8.8	89
15	Improved Optics in Monolithic Perovskite/Silicon Tandem Solar Cells with a Nanocrystalline Silicon Recombination Junction. Advanced Energy Materials, 2018, 8, 1701609.	10.2	192
16	Perovskite/Silicon Tandem Solar Cells: Marriage of Convenience or True Love Story? â€“ An Overview. Advanced Materials Interfaces, 2018, 5, 1700731.	1.9	321
17	Hybrid sequential deposition process for fully textured perovskite/silicon tandem solar cells. , 2018, , .		2
18	Perovskite/Perovskite/Silicon Monolithic Triple-Junction Solar Cells with a Fully Textured Design. ACS Energy Letters, 2018, 3, 2052-2058.	8.8	87

#	Article	IF	Citations
19	Fully textured monolithic perovskite/silicon tandem solar cells with 25.2% power conversion efficiency. Nature Materials, 2018, 17, 820-826.	13.3	1,046
20	Charge Collection in Hybrid Perovskite Solar Cells: Relation to the Nanoscale Elemental Distribution. IEEE Journal of Photovoltaics, 2017, 7, 590-597.	1.5	45
21	Photocurrent Spectroscopy of Perovskite Layers and Solar Cells: A Sensitive Probe of Material Degradation. Journal of Physical Chemistry Letters, 2017, 8, 838-843.	2.1	18
22	Efficient Monolithic Perovskite/Perovskite Tandem Solar Cells. Advanced Energy Materials, 2017, 7, 1602121.	10.2	255
23	The Role of Water in the Reversible Optoelectronic Degradation of Hybrid Perovskites at Low Pressure. Journal of Physical Chemistry C, 2017, 121, 25659-25665.	1.5	19
24	Imaging the Spatial Evolution of Degradation in Perovskite/Si Tandem Solar Cells After Exposure to Humid Air. IEEE Journal of Photovoltaics, 2017, 7, 1563-1568.	1.5	14
25	Perovskite/Silicon Tandem Solar Cells: Challenges Towards High- Efficiency in 4-Terminal and Monolithic Devices. , 2017, , .		3
26	Zinc tin oxide as high-temperature stable recombination layer for mesoscopic perovskite/silicon monolithic tandem solar cells. Applied Physics Letters, 2016, 109, .	1.5	105
27	High-efficiency perovskite/silicon heterojunction tandem solar cells. , 2016, , .		2
28	Elemental distribution and charge collection at the nanoscale on perovskite solar cells. , 2016, , .		8
29	Efficient Near-Infrared-Transparent Perovskite Solar Cells Enabling Direct Comparison of 4-Terminal and Monolithic Perovskite/Silicon Tandem Cells. ACS Energy Letters, 2016, 1, 474-480.	8.8	332
30	Probing Photocurrent Nonuniformities in the Subcells of Monolithic Perovskite/Silicon Tandem Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 5114-5120.	2.1	22
31	In Situ TEM Analysis of Organicâ€“Inorganic Metal-Halide Perovskite Solar Cells under Electrical Bias. Nano Letters, 2016, 16, 7013-7018.	4.5	115
32	Parasitic Absorption Reduction in Metal Oxide-Based Transparent Electrodes: Application in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 17260-17267.	4.0	80
33	Efficient Monolithic Perovskite/Silicon Tandem Solar Cell with Cell Area >1 cm². Journal of Physical Chemistry Letters, 2016, 7, 161-166.	2.1	448
34	Sputtered rear electrode with broadband transparency for perovskite solar cells. Solar Energy Materials and Solar Cells, 2015, 141, 407-413.	3.0	223
35	Complex Refractive Index Spectra of CH₃NH₃PbI₃ Perovskite Thin Films Determined by Spectroscopic Ellipsometry and Spectrophotometry. Journal of Physical Chemistry Letters, 2015, 6, 66-71.	2.1	491
36	Hybrid Fabrication Method for High Efficiency Monolithic Perovskite/Silicon Tandem Solar Cells. , 0, , .		0