

JÃ©rÃ©mie Werner

List of Publications by Year in descending order

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Version: 2024-02-01

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	Fully textured monolithic perovskite/silicon tandem solar cells with 25.2% power conversion efficiency. <i>Nature Materials</i> , 2018, 17, 820-826.	13.3	1,046
2	Triple-halide wide-band gap perovskites with suppressed phase segregation for efficient tandems. <i>Science</i> , 2020, 367, 1097-1104.	6.0	669
3	Complex Refractive Index Spectra of CH ₃ NH ₃ Pb ₃ Perovskite Thin Films Determined by Spectroscopic Ellipsometry and Spectrophotometry. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 66-71.	2.1	491
4	Efficient Monolithic Perovskite/Silicon Tandem Solar Cell with Cell Area >1 cm ² . <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 161-166.	2.1	448
5	Efficient Near-Infrared-Transparent Perovskite Solar Cells Enabling Direct Comparison of 4-Terminal and Monolithic Perovskite/Silicon Tandem Cells. <i>ACS Energy Letters</i> , 2016, 1, 474-480.	8.8	332
6	Enabling Flexible All-Perovskite Tandem Solar Cells. <i>Joule</i> , 2019, 3, 2193-2204.	11.7	331
7	Perovskite/Silicon Tandem Solar Cells: Marriage of Convenience or True Love Story? An Overview. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700731.	1.9	321
8	Overcoming Redox Reactions at Perovskite-Nickel Oxide Interfaces to Boost Voltages in Perovskite Solar Cells. <i>Joule</i> , 2020, 4, 1759-1775.	11.7	284
9	Efficient Monolithic Perovskite/Perovskite Tandem Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602121.	10.2	255
10	Design of low bandgap tin-lead halide perovskite solar cells to achieve thermal, atmospheric and operational stability. <i>Nature Energy</i> , 2019, 4, 939-947.	19.8	235
11	Sputtered rear electrode with broadband transparency for perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 141, 407-413.	3.0	223
12	Improved Optics in Monolithic Perovskite/Silicon Tandem Solar Cells with a Nanocrystalline Silicon Recombination Junction. <i>Advanced Energy Materials</i> , 2018, 8, 1701609.	10.2	192
13	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. <i>ACS Energy Letters</i> , 2019, 4, 844-845.	8.8	152
14	h ₂ vapor-induced degradation of formamidinium lead iodide based perovskite solar cells under heat-light soaking conditions. <i>Energy and Environmental Science</i> , 2019, 12, 3074-3088.	15.6	131
15	In Situ TEM Analysis of Organic-Inorganic Metal-Halide Perovskite Solar Cells under Electrical Bias. <i>Nano Letters</i> , 2016, 16, 7013-7018.	4.5	115
16	Zinc tin oxide as high-temperature stable recombination layer for mesoscopic perovskite/silicon monolithic tandem solar cells. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	105
17	Complex Refractive Indices of Cesium-Formamidinium-Based Mixed-Halide Perovskites with Optical Band Gaps from 1.5 to 1.8 eV. <i>ACS Energy Letters</i> , 2018, 3, 742-747.	8.8	89
18	Perovskite/Perovskite/Silicon Monolithic Triple-Junction Solar Cells with a Fully Textured Design. <i>ACS Energy Letters</i> , 2018, 3, 2052-2058.	8.8	87

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19	Solar Water Splitting with Perovskite/Silicon Tandem Cell and TiC-Supported Pt Nanocluster Electrocatalyst. <i>Joule</i> , 2019, 3, 2930-2941.	11.7	85
20	Parasitic Absorption Reduction in Metal Oxide-Based Transparent Electrodes: Application in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17260-17267.	4.0	80
21	Improving Low-Bandgap Tin-Lead Perovskite Solar Cells via Contact Engineering and Gas Quench Processing. <i>ACS Energy Letters</i> , 2020, 5, 1215-1223.	8.8	78
22	Charge Collection in Hybrid Perovskite Solar Cells: Relation to the Nanoscale Elemental Distribution. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 590-597.	1.5	45
23	Learning from existing photovoltaic technologies to identify alternative perovskite module designs. <i>Energy and Environmental Science</i> , 2020, 13, 3393-3403.	15.6	43
24	Toward Annealing-Stable Molybdenum-Oxide-Based Hole-Selective Contacts For Silicon Photovoltaics. <i>Solar Rrl</i> , 2018, 2, 1700227.	3.1	42
25	Choose Your Own Adventure: Fabrication of Monolithic All-Perovskite Tandem Photovoltaics. <i>Advanced Materials</i> , 2020, 32, e2003312.	11.1	39
26	Multimodal Microscale Imaging of Textured Perovskite-Silicon Tandem Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 2293-2304.	8.8	25
27	Probing Photocurrent Nonuniformities in the Subcells of Monolithic Perovskite/Silicon Tandem Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5114-5120.	2.1	22
28	Effects of X-rays on Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17949-17956.	1.5	21
29	The Role of Water in the Reversible Optoelectronic Degradation of Hybrid Perovskites at Low Pressure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25659-25665.	1.5	19
30	Photocurrent Spectroscopy of Perovskite Layers and Solar Cells: A Sensitive Probe of Material Degradation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 838-843.	2.1	18
31	Imaging the Spatial Evolution of Degradation in Perovskite/Si Tandem Solar Cells After Exposure to Humid Air. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 1563-1568.	1.5	14
32	Elemental distribution and charge collection at the nanoscale on perovskite solar cells. , 2016, , .		8
33	Perovskite/Silicon Tandem Solar Cells: Challenges Towards High- Efficiency in 4-Terminal and Monolithic Devices. , 2017, , .		3
34	High-efficiency perovskite/silicon heterojunction tandem solar cells. , 2016, , .		2
35	Hybrid sequential deposition process for fully textured perovskite/silicon tandem solar cells. , 2018, , .		2
36	Hybrid Fabrication Method for High Efficiency Monolithic Perovskite/Silicon Tandem Solar Cells. , 0, , .		0