

Mathias Mews

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.

32
papers

1,214
citations

15
h-index

32
g-index

32
ext. papers

1,394
ext. citations

5.2
avg, IF

4.33
L-index

#	Paper	IF	Citations
32	Energy-Level Alignment Tuning at Tetracene/c-Si Interfaces. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27867-27881	3.8	6
31	Three-Terminal Perovskite/Silicon Tandem Solar Cells with Top and Interdigitated Rear Contacts. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1381-1392	6.1	31
30	Interface Molecular Engineering for Laminated Monolithic Perovskite/Silicon Tandem Solar Cells with 80.4% Fill Factor. <i>Advanced Functional Materials</i> , 2019 , 29, 1901476	15.6	27
29	Exploring co-sputtering of ZnO:Al and SiO ₂ for efficient electron-selective contacts on silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 194, 67-73	6.4	12
28	Toward Annealing-Stable Molybdenum-Oxide-Based Hole-Selective Contacts For Silicon Photovoltaics. <i>Solar Rrl</i> , 2018 , 2, 1700227	7.1	31
27	In-system photoelectron spectroscopy study of tin oxide layers produced from tetrakis(dimethylamino)tin by plasma enhanced atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 02D401	2.9	6
26	Electronic structure of indium-tungsten-oxide alloys and their energy band alignment at the heterojunction to crystalline silicon. <i>Applied Physics Letters</i> , 2018 , 112, 011602	3.4	5
25	CsxFA1-xPb(1-x)Bry3 Perovskite Compositions: the Appearance of Wrinkled Morphology and its Impact on Solar Cell Performance. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17123-17135	3.8	31
24	Crystalline silicon solar cells with tetracene interlayers: the path to silicon-singlet fission heterojunction devices. <i>Materials Horizons</i> , 2018 , 5, 1065-1075	14.4	58
23	Interdigitated back contact silicon heterojunction solar cells: Towards an industrially applicable structuring method 2018 ,		3
22	Potential of PEDOT:PSS as a hole selective front contact for silicon heterojunction solar cells. <i>Scientific Reports</i> , 2017 , 7, 2170	4.9	49
21	Optimized Metallization for Interdigitated Back Contact Silicon Heterojunction Solar Cells. <i>Solar Rrl</i> , 2017 , 1, 1700021	7.1	9
20	Aluminium metallisation for interdigitated back-contact silicon heterojunction solar cells. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 08MB22	1.4	4
19	Sputtered Tungsten Oxide as Hole Contact for Silicon Heterojunction Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2017 , 7, 1209-1215	3.7	33
18	Oxygen vacancies in tungsten oxide and their influence on tungsten oxide/silicon heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 158, 77-83	6.4	91
17	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. <i>Energy and Environmental Science</i> , 2016 , 9, 81-88	35.4	469
16	Plasma-enhanced atomic-layer-deposited MoO _x emitters for silicon heterojunction solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 120, 811-816	2.6	26

15	Electrochemically deposited ZnO nanostructured array films as antireflection coating on silicon heterojunction solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 166-170	1.6	6
14	Valence band alignment and hole transport in amorphous/crystalline silicon heterojunction solar cells. <i>Applied Physics Letters</i> , 2015 , 107, 013902	3.4	39
13	Valence band offset in heterojunctions between crystalline silicon and amorphous silicon (sub)oxides (a-SiO _x :H, 0 Applied Physics Letters, 2015 , 106, 031601	3.4	29
12	Hydrogen Plasma Treatments of Amorphous/Crystalline Silicon Heterojunctions. <i>Energy Procedia</i> , 2014 , 55, 827-833	2.3	8
11	Over 20% conversion efficiency on silicon heterojunction solar cells by IPA-free substrate texturization. <i>Applied Surface Science</i> , 2014 , 301, 56-62	6.7	34
10	Optical and structural properties of electrochemically deposited ZnO nanorod arrays suitable for improvement of the light harvesting in thin film solar cells. <i>Journal of Physics: Conference Series</i> , 2014 , 559, 012018	0.3	1
9	Evolution of the Charge Carrier Lifetime Characteristics in Crystalline Silicon Wafers During Processing of Heterojunction Solar Cells. <i>Energy Procedia</i> , 2014 , 55, 219-228	2.3	8
8	Solution-processed amorphous silicon surface passivation layers. <i>Applied Physics Letters</i> , 2014 , 105, 122134	3.4	10
7	Amorphous/crystalline silicon heterojunction solar cells with black silicon texture. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 831-835	2.5	10
6	Comparison of TMB and B ₂ H ₆ as Precursors for Emitter Doping in High Efficiency Silicon Hetero Junction Solar Cells. <i>Energy Procedia</i> , 2014 , 60, 123-128	2.3	12
5	Approach for a Simplified Fabrication Process for IBC-SHJ Solar Cells with High Fill Factors. <i>Energy Procedia</i> , 2013 , 38, 732-736	2.3	8
4	Amorphous Silicon Passivation of Surfaces Promoting Epitaxy. <i>Energy Procedia</i> , 2013 , 38, 855-861	2.3	10
3	Passivation of Textured Silicon Wafers: Influence of Pyramid Size Distribution, a-Si:H Deposition Temperature, and Post-treatment. <i>Energy Procedia</i> , 2013 , 38, 881-889	2.3	27
2	Hydrogen plasma treatments for passivation of amorphous-crystalline silicon-heterojunctions on surfaces promoting epitaxy. <i>Applied Physics Letters</i> , 2013 , 102, 122106	3.4	115
1	AgGaSe ₂ thin films grown by chemical close-spaced vapor transport for photovoltaic applications: structural, compositional and optical properties. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 175801	1.8	6