

Jonas Weickert

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,373
citations

471509

17
h-index

580821

25
g-index

27
all docs

27
docs citations

27
times ranked

2823
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosting charge collection efficiency via large-area free-standing Ag/ZnO core-shell nanowire array electrodes. Progress in Natural Science: Materials International, 2019, 29, 124-128.	4.4	5
2	Uniform Large-Area Free-Standing Silver Nanowire Arrays on Transparent Conducting Substrates. Journal of the Electrochemical Society, 2016, 163, D447-D452.	2.9	25
3	Structure-induced resonant tail-state regime absorption in polymer: fullerene bulk-heterojunction solar cells. Physical Review B, 2016, 93, .	3.2	2
4	H-aggregate analysis of P3HT thin films-Capability and limitation of photoluminescence and UV/Vis spectroscopy. Scientific Reports, 2016, 6, 32434.	3.3	53
5	Decoupling optical and electronic optimization of organic solar cells using high-performance temperature-stable TiO ₂ /Ag/TiO ₂ electrodes. APL Materials, 2015, 3, .	5.1	21
6	Role of charge separation mechanism and local disorder at hybrid solar cell interfaces. Physical Review B, 2015, 91, .	3.2	7
7	Toward High-Efficiency Solution-Processed Planar Heterojunction Sb ₂ S ₃ Solar Cells. Advanced Science, 2015, 2, 1500059.	11.2	102
8	Influence of Interfacial Area on Exciton Separation and Polaron Recombination in Nanostructured Bilayer All-Polymer Solar Cells. ACS Nano, 2014, 8, 12397-12409.	14.6	41
9	Research Update: Physical and electrical characteristics of lead halide perovskites for solar cell applications. APL Materials, 2014, 2, .	5.1	136
10	Template-free synthesis of novel, highly-ordered 3D hierarchical Nb ₃ O ₇ (OH) superstructures with semiconductive and photoactive properties. Journal of Materials Chemistry A, 2014, 2, 12005.	10.3	18
11	Control of Recombination Pathways in TiO ₂ Nanowire Hybrid Solar Cells Using Sn ⁴⁺ Dopants. Journal of Physical Chemistry C, 2014, 118, 16672-16679.	3.1	24
12	Erroneous efficiency reports harm organic solar cell research. Nature Photonics, 2014, 8, 669-672.	31.4	195
13	High-speed atmospheric atomic layer deposition of ultra thin amorphous TiO ₂ blocking layers at 100°C for inverted bulk heterojunction solar cells. Progress in Photovoltaics: Research and Applications, 2013, 21, 393-400.	8.1	52
14	Nanostructured conformal hybrid solar cells: a promising architecture towards complete charge collection and light absorption. Nanoscale Research Letters, 2013, 8, 359.	5.7	13
15	Perspective: Hybrid solar cells: How to get the polymer to cooperate?. APL Materials, 2013, 1, .	5.1	7
16	Synergistic effects of interfacial modifiers enhance current and voltage in hybrid solar cells. APL Materials, 2013, 1, .	5.1	16
17	Temperature-Stable and Optically Transparent Thin-Film Zinc Oxide Aerogel Electrodes As Model Systems for 3D Interpenetrating Organic-Inorganic Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 6522-6529.	8.0	12
18	Nanoscale investigation on large crystallites in TiO ₂ nanotube arrays and implications for high-quality hybrid photodiodes. Journal of Materials Science, 2012, 47, 6459-6466.	3.7	5

#	ARTICLE	IF	CITATIONS
19	Characterization of Interfacial Modifiers for Hybrid Solar Cells. Journal of Physical Chemistry C, 2011, 115, 15081-15088.	3.1	42
20	Controlled Growth of TiO ₂ Nanotubes on Conducting Glass. Chemistry of Materials, 2011, 23, 155-162.	6.7	27
21	UV light protection through TiO ₂ blocking layers for inverted organic solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 3450-3454.	6.2	77
22	Nanostructured Organic and Hybrid Solar Cells. Advanced Materials, 2011, 23, 1810-1828.	21.0	300
23	Perylene Sensitization of Fullerenes for Improved Performance in Organic Photovoltaics. Advanced Energy Materials, 2011, 1, 861-869.	19.5	49
24	Discotic materials for organic solar cells: Effects of chemical structure on assembly and performance. Solar Energy Materials and Solar Cells, 2010, 94, 560-567.	6.2	64
25	Spray-deposited PEDOT:PSS for inverted organic solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 2371-2374.	6.2	80