

Michael C Heiber

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,327
citations

567281

15
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713466

21
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22
all docs

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docs citations

22
times ranked

2562
citing authors

#	ARTICLE	IF	CITATIONS
1	Small is Powerful: Recent Progress in Solution-Processed Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602242.	19.5	371
2	Crystallography, Morphology, Electronic Structure, and Transport in Non-Fullerene/Non-Indacenodithienothiophene Polymer:Y6 Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 14532-14547.	13.7	214
3	Identification of Trap States in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2350-2354.	4.6	204
4	Encounter-Limited Charge-Carrier Recombination in Phase-Separated Organic Semiconductor Blends. <i>Physical Review Letters</i> , 2015, 114, 136602.	7.8	92
5	Charge Generation and Recombination in an Organic Solar Cell with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2018, 8, 1701073.	19.5	60
6	Measuring the competition between bimolecular charge recombination and charge transport in organic solar cells under operating conditions. <i>Energy and Environmental Science</i> , 2018, 11, 3019-3032.	30.8	59
7	Nongeminate recombination in neat P3HT and P3HT:PCBM blend films. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	58
8	Analysis of Triplet Exciton Loss Pathways in PTB7:PC71BM Bulk Heterojunction Solar Cells. <i>Scientific Reports</i> , 2016, 6, 29158.	3.3	42
9	Development of a Colloidal Lithography Method for Patterning Nonplanar Surfaces. <i>Langmuir</i> , 2010, 26, 16662-16666.	3.5	40
10	Dynamic Monte Carlo modeling of exciton dissociation in organic donor-acceptor solar cells. <i>Journal of Chemical Physics</i> , 2012, 137, 014903.	3.0	35
11	Electrical Conductivity of Doped Organic Semiconductors Limited by Carrier-Carrier Interactions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56222-56230.	8.0	32
12	Charge carrier concentration dependence of encounter-limited bimolecular recombination in phase-separated organic semiconductor blends. <i>Physical Review B</i> , 2016, 93, .	3.2	29
13	Estimating the Magnitude of Exciton Delocalization in Regioregular P3HT. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21627-21634.	3.1	18
14	Efficient Generation of Model Bulk Heterojunction Morphologies for Organic Photovoltaic Device Modeling. <i>Physical Review Applied</i> , 2014, 2, .	3.8	17
15	Triplet Excitons in Highly Efficient Solar Cells Based on the Soluble Small Molecule p- δ S(FBTTh 2) 2. <i>Advanced Energy Materials</i> , 2017, 7, 1602016.	19.5	15
16	Impact of Tortuosity on Charge-Carrier Transport in Organic Bulk Heterojunction Blends. <i>Physical Review Applied</i> , 2017, 8, .	3.8	15
17	Advances in modeling the physics of disordered organic electronic devices. , 2019, , 309-347.		7
18	Excimontec v1.0: An Open-Source Software Tool for Kinetic Monte Carlo Simulations of Organic Electronic Devices. <i>Journal of Open Source Software</i> , 2020, 5, 2307.	4.6	7

#	ARTICLE	IF	CITATIONS
19	Charge transport and mobility relaxation in organic bulk heterojunction morphologies derived from electron tomography measurements. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15339-15350.	5.5	5
20	KMC_Lattice v2.0: An Object-Oriented C++ Library for Custom Kinetic Monte Carlo Simulations. <i>Journal of Open Source Software</i> , 2019, 4, 1168.	4.6	4
21	Ising_OPV v4.0: Experimental Tomography Data Import, Interpretation, and Analysis. <i>Journal of Open Source Software</i> , 2018, 3, 1072.	4.6	2