

Iordania Constantinou

List of Publications by Year in descending order

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papers

956
citations

471509

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times ranked

2128
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding and Eliminating Hysteresis for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700414.	19.5	190
2	Unveiling Roles of Tin Fluoride Additives in High-Efficiency Low-Bandgap Mixed Tin-Lead Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2101045.	19.5	101
3	Batch-to-Batch Variation of Polymeric Photovoltaic Materials: its Origin and Impacts on Charge Carrier Transport and Device Performances. <i>Advanced Energy Materials</i> , 2014, 4, 1400768.	19.5	72
4	Formation of Perovskite Heterostructures by Ion Exchange. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33273-33279.	8.0	56
5	Effect of Polymer-Fullerene Interaction on the Dielectric Properties of the Blend. <i>Advanced Energy Materials</i> , 2017, 7, 1601947.	19.5	51
6	Strong polymer molecular weight-dependent material interactions: impact on the formation of the polymer/fullerene bulk heterojunction morphology. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13176-13188.	10.3	49
7	Comparing non-fullerene acceptors with fullerene in polymer solar cells: a case study with FTAZ and PyCNTAZ. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4886-4893.	10.3	44
8	Impact of Nonfullerene Molecular Architecture on Charge Generation, Transport, and Morphology in PTB7-Th-Based Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1802702.	14.9	44
9	Every Atom Counts: Elucidating the Fundamental Impact of Structural Change in Conjugated Polymers for Organic Photovoltaics. <i>Chemistry of Materials</i> , 2018, 30, 2995-3009.	6.7	39
10	Effect of Thermal Annealing on Charge Transfer States and Charge Trapping in PCDTBT:PC ₇₀ BM Solar Cells. <i>Advanced Electronic Materials</i> , 2015, 1, 1500167.	5.1	35
11	The Critical Impact of Material and Process Compatibility on the Active Layer Morphology and Performance of Organic Ternary Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1802293.	19.5	35
12	High Efficiency Air-Processed Dithienogermole-Based Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4826-4832.	8.0	34
13	Evidence of Molecular Structure Dependent Charge Transfer between Isoindigo-Based Polymers and Fullerene. <i>Chemistry of Materials</i> , 2016, 28, 2433-2440.	6.7	32
14	Effect of Polymer Side Chains on Charge Generation and Disorder in PBDTPD Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26999-27005.	8.0	27
15	Spatially resolved electrical impedance methods for cell and particle characterization. <i>Electrophoresis</i> , 2020, 41, 65-80.	2.4	22
16	Increased Exciton Delocalization of Polymer upon Blending with Fullerene. <i>Advanced Materials</i> , 2018, 30, 1801392.	21.0	20
17	Suppression of Nonradiative Recombination by Vacuum-Assisted Process for Efficient Lead-Free Tin Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100135.	3.7	20
18	Efficient wide-bandgap perovskite solar cells enabled by doping a bromine-rich molecule. <i>Nanophotonics</i> , 2021, 10, 2059-2068.	6.0	17

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19	Charge Photogeneration in Organic Photovoltaics: Role of Hot versus Cold Charge Transfer Excitons. <i>Advanced Energy Materials</i> , 2016, 6, 1301032.	19.5	16
20	Self-Learning Microfluidic Platform for Single-Cell Imaging and Classification in Flow. <i>Micromachines</i> , 2019, 10, 311.	2.9	13
21	Progress in Perovskite Solar Cells towards Commercialization—A Review. <i>Materials</i> , 2021, 14, 6569.	2.9	10
22	Photodegradation of Metal Oxide Interlayers in Polymer Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600741.	3.7	8
23	Utilizing Forster resonance energy transfer to extend spectral response of PCDTBT:PCBM solar cells. <i>Organic Electronics</i> , 2017, 42, 87-92.	2.6	8
24	Space-Filling Curve Resistor on Ultra-Thin Polyetherimide Foil for Strain Impervious Temperature Sensing. <i>Sensors</i> , 2021, 21, 6479.	3.8	5
25	Two-Phase Biocatalysis in Microfluidic Droplets. <i>Biosensors</i> , 2021, 11, 407.	4.7	3
26	Application of bromide-iodide lead perovskite thin film as a copper-free back contact layer for CdTe solar cells. <i>Solar Energy</i> , 2021, 230, 832-842.	6.1	3
27	Organic Photovoltaics: Charge Photogeneration in Organic Photovoltaics: Role of Hot versus Cold Charge Transfer Excitons (<i>Adv. Energy Mater.</i> 1/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	19.5	1
28	Microsystems for Cell Cultures. <i>Biosensors</i> , 2022, 12, 190.	4.7	1