

Jafar I Khan

List of Publications by Citations

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32
papers

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36
ext. papers

1,234
ext. citations

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avg, IF

4.12
L-index

#	Paper	IF	Citations
32	A Universal Double-Side Passivation for High Open-Circuit Voltage in Perovskite Solar Cells: Role of Carbonyl Groups in Poly(methyl methacrylate). <i>Advanced Energy Materials</i> , 2018 , 8, 1801208	21.8	268
31	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. <i>Nature Materials</i> , 2021 , 20, 378-384	27	108
30	Key Parameters Requirements for Non-Fullerene-Based Organic Solar Cells with Power Conversion Efficiency >20. <i>Advanced Science</i> , 2019 , 6, 1802028	13.6	107
29	Progress in Poly (3-Hexylthiophene) Organic Solar Cells and the Influence of Its Molecular Weight on Device Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1801001	21.8	72
28	Improved Morphology and Efficiency of n-i-p Planar Perovskite Solar Cells by Processing with Glycol Ether Additives. <i>ACS Energy Letters</i> , 2017 , 2, 1960-1968	20.1	39
27	Impact of Nonfullerene Acceptor Core Structure on the Photophysics and Efficiency of Polymer Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 802-811	20.1	38
26	Enhanced Optoelectronic Performance of a Passivated Nanowire-Based Device: Key Information from Real-Space Imaging Using 4D Electron Microscopy. <i>Small</i> , 2016 , 12, 2313-20	11	34
25	Real-Space Imaging of Carrier Dynamics of Materials Surfaces by Second-Generation Four-Dimensional Scanning Ultrafast Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3884-90	6.4	31
24	Thermal annealing reduces geminate recombination in TQ1:N2200 all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7428-7438	13	30
23	Real-Space Visualization of Energy Loss and Carrier Diffusion in a Semiconductor Nanowire Array Using 4D Electron Microscopy. <i>Advanced Materials</i> , 2016 , 28, 5106-11	24	23
22	P3HT Molecular Weight Determines the Performance of P3HT:O-IDTBR Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900023	7.1	21
21	28.2%-efficient, outdoor-stable perovskite/silicon tandem solar cell. <i>Joule</i> , 2021 ,	27.8	15
20	Scaling-up perovskite solar cells on hydrophobic surfaces. <i>Nano Energy</i> , 2021 , 81, 105633	17.1	15
19	How Humidity and Light Exposure Change the Photophysics of Metal Halide Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000382	7.1	13
18	Understanding the Charge Transfer State and Energy Loss Trade-offs in Non-fullerene-Based Organic Solar Cells. <i>ACS Energy Letters</i> , 3408-3416	20.1	13
17	Triarylphosphine Oxide as Cathode Interfacial Material for Inverted Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900434	4.6	11
16	Carrier Extraction from Perovskite to Polymeric Charge Transport Layers Probed by Ultrafast Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6921-6928	6.4	11

15	Impact of Cesium/Rubidium Incorporation on the Photophysics of Multiple-Cation Lead Halide Perovskites. <i>Solar Rrl</i> , 2020 , 4, 2000072	7.1	8
14	Impact of Residual Lead Iodide on Photophysical Properties of Lead Triiodide Perovskite Solar Cells. <i>Energy Technology</i> , 2020 , 8, 1900627	3.5	8
13	Chemical Design Rules for Non-Fullerene Acceptors in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2102363	21.8	7
12	Thienyl Sidechain Substitution and Backbone Fluorination of Benzodithiophene-Based Donor Polymers Concertedly Minimize Carrier Losses in ITIC-Based Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10420-10429	3.8	7
11	The Growth of Photoactive Porphyrin-Based MOF Thin Films Using the Liquid-Phase Epitaxy Approach and their Optoelectronic Properties. <i>Materials</i> , 2019 , 12,	3.5	6
10	Impact of Acceptor Quadrupole Moment on Charge Generation and Recombination in Blends of IDT-Based Non-Fullerene Acceptors with PCE10 as Donor Polymer. <i>Advanced Energy Materials</i> , 2021 , 11, 2100839	21.8	6
9	Printed Memtransistor Utilizing a Hybrid Perovskite/Organic Heterojunction Channel. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 51592-51601	9.5	4
8	Impact of Photoluminescence Reabsorption in Metal-Halide Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100029	7.1	4
7	Understanding the Role of Order in Y-Series Non-Fullerene Solar Cells to Realize High Open-Circuit Voltages. <i>Advanced Energy Materials</i> , 2103422	21.8	2
6	Charge Carrier Recombination at Perovskite/Hole Transport Layer Interfaces Monitored by Time-Resolved Spectroscopy. <i>ACS Energy Letters</i> , 4155-4164	20.1	2
5	Impact of Structural Polymorphs on Charge Collection and Nongeminate Recombination in Organic Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 29141-29149	3.8	2
4	Nanowires: Enhanced Optoelectronic Performance of a Passivated Nanowire-Based Device: Key Information from Real-Space Imaging Using 4D Electron Microscopy (Small 17/2016). <i>Small</i> , 2016 , 12, 2312	11	1
3	A Universal Cosolvent Evaporation Strategy Enables Direct Printing of Perovskite Single Crystals for Optoelectronic Device Applications.. <i>Advanced Materials</i> , 2022 , e2109862	24	1
2	Efficiency Limits in Wide-Bandgap Ge-Containing Donor Polymer:Nonfullerene Acceptor Bulk Heterojunction Solar Cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2100206	2.5	1
1	Chemical Design Rules for Non-Fullerene Acceptors in Organic Solar Cells (Adv. Energy Mater. 44/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170175	21.8	0