Joo-Hyun Kim

List of Publications by Year
in descending order

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		687363	752698
19	1,350	13	20
papers	citations	h-index	g-index

21	21	21	2146
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantitative relations between interaction parameter, miscibility and function in organic solar cells. Nature Materials, 2018, 17, 253-260.	27.5	556
2	Efficient Nonfullerene Polymer Solar Cells Enabled by a Novel Wide Bandgap Small Molecular Acceptor. Advanced Materials, 2017, 29, 1606054.	21.0	181
3	Inkjetâ€Printed Singleâ€Droplet Organic Transistors Based on Semiconductor Nanowires Embedded in Insulating Polymers. Advanced Functional Materials, 2010, 20, 3292-3297.	14.9	100
4	Panchromatic Sequentially Cast Ternary Polymer Solar Cells. Advanced Materials, 2017, 29, 1604603.	21.0	87
5	Two-Dimensionally Extended Ï€-Conjugation of Donorâ€“Acceptor Copolymers via Oligothienyl Side Chains for Efficient Polymer Solar Cells. Macromolecules, 2015, 48, 1723-1735.	4.8	69
6	Electrical Performance of Organic Solar Cells with Additiveâ€Assisted Vertical Phase Separation in the Photoactive Layer. Advanced Energy Materials, 2014, 4, 1300612.	19.5	67
7	Strong polymer molecular weight-dependent material interactions: impact on the formation of the polymer/fullerene bulk heterojunction morphology. Journal of Materials Chemistry A, 2017, 5, 13176-13188.	10.3	49
8	Comparing non-fullerene acceptors with fullerene in polymer solar cells: a case study with FTAZ and PyCNTAZ. Journal of Materials Chemistry A, 2017, 5, 4886-4893.	10.3	44
9	Influence of fluorination on the properties and performance of isoindigoâ€“quaterthiophene-based polymers. Journal of Materials Chemistry A, 2016, 4, 5039-5043.	10.3	35
10	The Critical Impact of Material and Process Compatibility on the Active Layer Morphology and Performance of Organic Ternary Solar Cells. Advanced Energy Materials, 2019, 9, 1802293.	19.5	35
11	Organic Solar Cells Based on Three-Dimensionally Percolated Polythiophene Nanowires with Enhanced Charge Transport. ACS Applied Materials & Interfaces, 2014, 6, 5640-5650.	8.0	34
12	Enhanced device performance of organic solar cells via reduction of the crystallinity in the donor polymer. Journal of Materials Chemistry, 2010, 20, 5860.	6.7	27
13	Improved Charge Transport and Reduced Non-Geminate Recombination in Organic Solar Cells by Adding Size-Selected Graphene Oxide Nanosheets. ACS Applied Materials & Interfaces, 2019, 11, 20183-20191.	8.0	15
14	Boosting Solar Cell Performance via Centrally Localized Ag in Solution-Processed Cu(In,Ga)(S,Se)₂ Thin Film Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 36082-36091.	8.0	13
15	Morphologicalâ€“Electrical Property Relation in Cu(In,Ga)(S,Se)₂ Solar Cells: Significance of Crystal Grain Growth and Band Grading by Potassium Treatment. Small, 2020, 16, e2003865.	10.0	12
16	Solution-processed near-infrared Cu(In,Ga)(S,Se)2 photodetectors with enhanced chalcopyrite crystallization and bandgap grading structure via potassium incorporation. Scientific Reports, 2021, 11, 7820.	3.3	12
17	Impact of Absorber Layer Morphology on Photovoltaic Properties in Solution-Processed Chalcopyrite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 34-47.	8.0	5
18	Thermal Gradient During Vacuum-Deposition Dramatically Enhances Charge Transport in Organic Semiconductors: Toward High-Performance N-Type Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 9910-9917.	8.0	4

#	Article	IF	Citations
19	Toward Understanding Chalcopyrite Solar Cells via Advanced Characterization Techniques. Advanced Materials Interfaces, 2022, 9, .	3.7	1