

# Joo-Hyun Kim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1636531/publications.pdf>

Version: 2024-02-01

19  
papers

1,350  
citations

687363

13  
h-index

752698

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

2146  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Understanding Chalcopyrite Solar Cells via Advanced Characterization Techniques. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	1
2	Solution-processed near-infrared Cu(In,Ga)(S,Se) <sub>2</sub> photodetectors with enhanced chalcopyrite crystallization and bandgap grading structure via potassium incorporation. <i>Scientific Reports</i> , 2021, 11, 7820.	3.3	12
3	Impact of Absorber Layer Morphology on Photovoltaic Properties in Solution-Processed Chalcopyrite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34-47.	8.0	5
4	Boosting Solar Cell Performance via Centrally Localized Ag in Solution-Processed Cu(In,Ga)(S,Se) <sub>2</sub> Thin Film Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 36082-36091.	8.0	13
5	Morphologicalâ€Electrical Property Relation in Cu(In,Ga)(S,Se) <sub>2</sub> Solar Cells: Significance of Crystal Grain Growth and Band Grading by Potassium Treatment. <i>Small</i> , 2020, 16, e2003865.	10.0	12
6	Improved Charge Transport and Reduced Non-Geminate Recombination in Organic Solar Cells by Adding Size-Selected Graphene Oxide Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20183-20191.	8.0	15
7	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
8	Quantitative relations between interaction parameter, miscibility and function in organic solar cells. <i>Nature Materials</i> , 2018, 17, 253-260.	27.5	556
9	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
10	Efficient Nonfullerene Polymer Solar Cells Enabled by a Novel Wide Bandgap Small Molecular Acceptor. <i>Advanced Materials</i> , 2017, 29, 1606054.	21.0	181
11	Panchromatic Sequentially Cast Ternary Polymer Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604603.	21.0	87
12	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
13	Thermal Gradient During Vacuum-Deposition Dramatically Enhances Charge Transport in Organic Semiconductors: Toward High-Performance N-Type Organic Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 9910-9917.	8.0	4
14	Influence of fluorination on the properties and performance of isoindigoâ€quaterthiophene-based polymers. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5039-5043.	10.3	35
15	Two-Dimensionally Extended ï€Conjugation of Donorâ€Acceptor Copolymers via Oligothiophenyl Side Chains for Efficient Polymer Solar Cells. <i>Macromolecules</i> , 2015, 48, 1723-1735.	4.8	69
16	Electrical Performance of Organic Solar Cells with Additiveâ€Assisted Vertical Phase Separation in the Photoactive Layer. <i>Advanced Energy Materials</i> , 2014, 4, 1300612.	19.5	67
17	Organic Solar Cells Based on Three-Dimensionally Percolated Polythiophene Nanowires with Enhanced Charge Transport. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5640-5650.	8.0	34
18	Inkjetâ€Printed Singleâ€Droplet Organic Transistors Based on Semiconductor Nanowires Embedded in Insulating Polymers. <i>Advanced Functional Materials</i> , 2010, 20, 3292-3297.	14.9	100

#	ARTICLE	IF	CITATIONS
19	Enhanced device performance of organic solar cells via reduction of the crystallinity in the donor polymer. <i>Journal of Materials Chemistry</i> , 2010, 20, 5860.	6.7	27