

In-Wook Hwang

List of Publications by Year in descending order

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32
papers

1,762
citations

567144

15
h-index

454834

30
g-index

32
all docs

32
docs citations

32
times ranked

3428
citing authors

#	ARTICLE	IF	CITATIONS
1	Versatile surface plasmon resonance of carbon-dot-supported silver nanoparticles in polymer optoelectronic devices. <i>Nature Photonics</i> , 2013, 7, 732-738.	15.6	501
2	Photoinduced Carrier Generation in P3HT/PCBM Bulk Heterojunction Materials. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4350-4354.	1.5	338
3	Porphyrin Boxes Constructed by Homochiral Self-Sorting Assembly: Optical Separation, Exciton Coupling, and Efficient Excitation Energy Migration. <i>Journal of the American Chemical Society</i> , 2004, 126, 16187-16198.	6.6	183
4	Top-Down Approach for Nanophase Reconstruction in Bulk Heterojunction Solar Cells. <i>Advanced Materials</i> , 2014, 26, 6275-6283.	11.1	122
5	High-Performance Integrated Perovskite and Organic Solar Cells with Enhanced Fill Factors and Near-Infrared Harvesting. <i>Advanced Materials</i> , 2016, 28, 3159-3165.	11.1	84
6	Excitation-Energy Migration in Self-Assembled Cyclic Zinc(II)-Porphyrin Arrays: A Close Mimicry of a Natural Light-Harvesting System. <i>Chemistry - A European Journal</i> , 2005, 11, 3753-3761.	1.7	81
7	Carrier generation and transport in bulk heterojunction films processed with 1,8-octanedithiol as a processing additive. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	78
8	Simultaneously Passivating Cation and Anion Defects in Metal Halide Perovskite Solar Cells Using a Zwitterionic Amino Acid Additive. <i>Small</i> , 2021, 17, e2005608.	5.2	51
9	Bulk Heterojunction Materials Composed of Poly(2,5-bis(3-tetradecylthiophen-2-yl)thieno[3,2- <i>b</i>]thiophene): Ultrafast Electron Transfer and Carrier Recombination. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7853-7857.	1.5	44
10	Excitation Energy Migration in A Dodecameric Porphyrin Wheel. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8643-8651.	1.2	41
11	Single-Crystal-like Perovskite for High-Performance Solar Cells Using the Effective Merged Annealing Method. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12382-12390.	4.0	41
12	Understanding and Tailoring Grain Growth of Lead-Halide Perovskite for Solar Cell Application. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33925-33933.	4.0	39
13	Triplet Exciton and Polaron Dynamics in Phosphorescent Dye Blended Polymer Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2010, 20, 2945-2950.	7.8	33
14	Bilateral Interface Engineering for Efficient and Stable Perovskite Solar Cells Using Phenylethylammonium Iodide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24827-24836.	4.0	27
15	Efficiency enhancements in non-fullerene acceptor-based organic solar cells by post-additive soaking. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8805-8810.	5.2	19
16	Improved Carrier Dynamics and High Solar Cell Performance in Postadditive-Soaked PTB7:PC71BM Bulk Heterojunction Materials. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12896-12903.	1.5	13
17	Enhanced Charge Separation in Ternary Bulk-Heterojunction Organic Solar Cells by Fullerenes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6418-6424.	2.1	10
18	Conditions for optimal efficiency of PCBM-based terahertz modulators. <i>AIP Advances</i> , 2017, 7, .	0.6	9

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19	Excited-state energy dynamics of conjugated polycarbogermane oligomers: Introduction effects of germanium atom into π -conjugated molecular system. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 1298-1306.	2.4	7
20	Highly stable and efficient cathode-buffer-layer-free inverted perovskite solar cells. <i>Nanoscale</i> , 2021, 13, 5652-5659.	2.8	7
21	Carrier losses in non-geminate charge-transferred states of nonfullerene acceptor-based organic solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 250, 119227.	2.0	6
22	Fluorescence lifetime study of intermolecular coupling between biphenylâ€“ester moieties of a thermotropic liquid crystal. <i>Chemical Physics Letters</i> , 2013, 571, 34-37.	1.2	5
23	Characteristics of terahertz wave modulation using wavelength-selective photoexcitation in pentacene/Si and TIPS pentacene/Si bilayers. <i>AIP Advances</i> , 2016, 6, 115310.	0.6	5
24	Fabrication-Method-Dependent Excited State Dynamics in CH ₃ NH ₃ PbI ₃ Perovskite Films. <i>Scientific Reports</i> , 2017, 7, 16516.	1.6	5
25	Contrast agent free detection of bowel perforation using chlorophyll derivatives from food plants. <i>Chemical Physics Letters</i> , 2016, 643, 10-15.	1.2	4
26	Enhanced phase separation in PEDOT:PSS hole transport layer by introducing phenylethylammonium iodide for efficient perovskite solar cells. <i>Journal of Renewable and Sustainable Energy</i> , 2022, 14, 013502.	0.8	3
27	Fluorescence spectroscopy-based study of balanced transport of charge carriers in hot-air-annealed perovskites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 207, 68-72.	2.0	2
28	Versatile control of concentration gradients in non-fullerene acceptor-based bulk heterojunction films using solvent rinse treatments. <i>Green Energy and Environment</i> , 2021, , .	4.7	2
29	Organic Solar Cells: Topâ€“Down Approach for Nanophase Reconstruction in Bulk Heterojunction Solar Cells (<i>Adv. Mater.</i> 36/2014). <i>Advanced Materials</i> , 2014, 26, 6274-6274.	11.1	1
30	Metal-Organic Hybrid Metamaterials for Spectral-Band Selective Active Terahertz Modulators. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2765.	1.3	1
31	Transport property of organic semiconductor dependent on crystalline ordering. , 2013, , .		0
32	Terahertz wave modulators in organic/Si bilayers. , 2015, , .		0