

Hyunbum Kang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29
papers

2,733
citations

19
h-index

30
g-index

30
ext. papers

3,031
ext. citations

12.6
avg, IF

4.96
L-index

#	Paper	IF	Citations
29	Flexible, highly efficient all-polymer solar cells. <i>Nature Communications</i> , 2015 , 6, 8547	17.4	638
28	From Fullerene-Polymer to All-Polymer Solar Cells: The Importance of Molecular Packing, Orientation, and Morphology Control. <i>Accounts of Chemical Research</i> , 2016 , 49, 2424-2434	24.3	351
27	Determining the role of polymer molecular weight for high-performance all-polymer solar cells: its effect on polymer aggregation and phase separation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2359-65	16.4	311
26	High-performance all-polymer solar cells via side-chain engineering of the polymer acceptor: the importance of the polymer packing structure and the nanoscale blend morphology. <i>Advanced Materials</i> , 2015 , 27, 2466-71	24	259
25	Effects of Solubilizing Group Modification in Fullerene Bis-Adducts on Normal and Inverted Type Polymer Solar Cells. <i>Chemistry of Materials</i> , 2012 , 24, 2373-2381	9.6	144
24	Determining Optimal Crystallinity of Diketopyrrolopyrrole-Based Terpolymers for Highly Efficient Polymer Solar Cells and Transistors. <i>Chemistry of Materials</i> , 2014 , 26, 6963-6970	9.6	123
23	Importance of Electron Transport Ability in Naphthalene Diimide-Based Polymer Acceptors for High-Performance, Additive-Free, All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2015 , 27, 5230-5237	9.6	115
22	High-Performance All-Polymer Solar Cells Based on Face-On Stacked Polymer Blends with Low Interfacial Tension. <i>ACS Macro Letters</i> , 2014 , 3, 1009-1014	6.6	101
21	Facile Synthesis of o-Xylenyl Fullerene Multiadducts for High Open Circuit Voltage and Efficient Polymer Solar Cells. <i>Chemistry of Materials</i> , 2011 , 23, 5090-5095	9.6	101
20	Controlling number of indene solubilizing groups in multiadduct fullerenes for tuning optoelectronic properties and open-circuit voltage in organic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 110-6	9.5	86
19	Influence of intermolecular interactions of electron donating small molecules on their molecular packing and performance in organic electronic devices. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14538	13	68
18	Eco-Friendly Polymer Solar Cells: Advances in Green-Solvent Processing and Material Design. <i>ACS Nano</i> , 2020 , 14, 14493-14527	16.7	66
17	Effect of fullerene tris-adducts on the photovoltaic performance of P3HT:fullerene ternary blends. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 4401-8	9.5	65
16	Facile Photo-Crosslinking of Azide-Containing Hole-Transporting Polymers for Highly Efficient, Solution-Processed, Multilayer Organic Light Emitting Devices. <i>Advanced Functional Materials</i> , 2014 , 24, 7588-7596	15.6	54
15	The effect of side-chain length on regioregular poly[3-(4-n-alkyl)phenylthiophene]/PCBM and ICBA polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14236		48
14	Standalone real-time health monitoring patch based on a stretchable organic optoelectronic system. <i>Science Advances</i> , 2021 , 7,	14.3	40
13	Improved Internal Quantum Efficiency and Light-Extraction Efficiency of Organic Light-Emitting Diodes via Synergistic Doping with Au and Ag Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27911-27919	9.5	33

12	Nanoimprinting-induced nanomorphological transition in polymer solar cells: enhanced electrical and optical performance. <i>ACS Nano</i> , 2015 , 9, 2773-82	16.7	29
11	Side Chain Engineered Naphthalene Diimide-Based Terpolymer for Efficient and Mechanically Robust All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2021 , 33, 1070-1081	9.6	23
10	Simultaneously Enhancing Light Extraction and Device Stability of Organic Light-Emitting Diodes using a Corrugated Polymer Nanosphere Templated PEDOT:PSS Layer. <i>Advanced Energy Materials</i> , 2014 , 4, 1301345	21.8	15
9	Molecular structure-device performance relationship in polymer solar cells based on indene-C60 bis-adduct derivatives. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 261-267	2.8	15
8	Layer-by-layer assembled multilayer TiO(x) for efficient electron acceptor in polymer hybrid solar cells. <i>Langmuir</i> , 2010 , 26, 17589-95	4	12
7	Ester-functionalized, wide-bandgap derivatives of PM7 for simultaneous enhancement of photovoltaic performance and mechanical robustness of all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2775-2783	13	9
6	C70-based aqueous-soluble fullerene for the water composition-tolerant performance of eco-friendly polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15224-15233	7.1	8
5	Cyano-Functionalized Quinoxaline-Based Polymer Acceptors for All-Polymer Solar Cells and Organic Transistors. <i>ChemSusChem</i> , 2021 , 14, 3520-3527	8.3	7
4	Green solvent-processed, high-performance organic solar cells achieved by outer side-chain selection of selenophene-incorporated Y-series acceptors. <i>Journal of Materials Chemistry A</i> ,	13	5
3	Stretchable PPG sensor with light polarization for physical activity-permissible monitoring.. <i>Science Advances</i> , 2022 , 8, eabm3622	14.3	5
2	Effects of the Selective Alkoxy Side Chain Position in Quinoxaline-Based Polymer Acceptors on the Performance of All-Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47817-47825	9.5	2
1	Organic Electronics: Facile Photo-Crosslinking of Azide-Containing Hole-Transporting Polymers for Highly Efficient, Solution-Processed, Multilayer Organic Light Emitting Devices (Adv. Funct. Mater. 48/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 7776-7776	15.6	