

Hyunbum Kang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1667004/hyunbum-kang-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Stretchable PPG sensor with light polarization for physical activity-permissible monitoring.. <i>Science Advances</i> , 2022 , 8, eabm3622	14.3	5
28	Cyano-Functionalized Quinoxaline-Based Polymer Acceptors for All-Polymer Solar Cells and Organic Transistors. <i>ChemSusChem</i> , 2021 , 14, 3520-3527	8.3	7
27	Standalone real-time health monitoring patch based on a stretchable organic optoelectronic system. <i>Science Advances</i> , 2021 , 7,	14.3	40
26	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
25	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
24	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
23	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
22	Eco-Friendly Polymer Solar Cells: Advances in Green-Solvent Processing and Material Design. <i>ACS Nano</i> , 2020 , 14, 14493-14527	16.7	66
21	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
20	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
19	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
18	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
17	Flexible, highly efficient all-polymer solar cells. <i>Nature Communications</i> , 2015 , 6, 8547	17.4	638
16	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
15	Nanoimprinting-induced nanomorphological transition in polymer solar cells: enhanced electrical and optical performance. <i>ACS Nano</i> , 2015 , 9, 2773-82	16.7	29
14	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
13	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

12	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
11	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
10	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	
9	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
8	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
7	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
6	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
5	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
4	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
3	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
2	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
1	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