

Han-Hee Cho

List of Publications by Year in descending order

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33
papers

1,533
citations

279798

23
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377865

34
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docs citations

34
times ranked

2520
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent-Resistant Organic Transistors and Thermally Stable Organic Photovoltaics Based on Cross-linkable Conjugated Polymers. <i>Chemistry of Materials</i> , 2012, 24, 215-221.	6.7	154
2	Importance of Optimal Composition in Random Terpolymer-Based Polymer Solar Cells. <i>Macromolecules</i> , 2013, 46, 6806-6813.	4.8	137
3	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, 110-116.	8.0	89
4	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.	10.3	86
5	Surface Engineering of Graphene Quantum Dots and Their Applications as Efficient Surfactants. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8615-8621.	8.0	76
6	Shift of the Branching Point of the Side-Chain in Naphthalenediimide (NDI)-Based Polymer for Enhanced Electron Mobility and All-Polymer Solar Cell Performance. <i>Advanced Functional Materials</i> , 2018, 28, 1803613.	14.9	74
7	Engineering the Shape of Block Copolymer Particles by Surface-Modulated Graphene Quantum Dots. <i>Chemistry of Materials</i> , 2016, 28, 830-837.	6.7	71
8	Design of Cyanovinylene-Containing Polymer Acceptors with Large Dipole Moment Change for Efficient Charge Generation in High-Performance All-Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1701436.	19.5	70
9	Multicolor Emitting Block Copolymer-Integrated Graphene Quantum Dots for Colorimetric, Simultaneous Sensing of Temperature, pH, and Metal Ions. <i>Chemistry of Materials</i> , 2015, 27, 5288-5294.	6.7	67
10	Importance of 2D Conjugated Side Chains of Benzodithiophene-Based Polymers in Controlling Polymer Packing, Interfacial Ordering, and Composition Variations of All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 9407-9415.	6.7	67
11	Photoinduced Charge Transfer in Donor-Acceptor (DA) Copolymer: Fullerene Bis-adduct Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 861-868.	8.0	58
12	Effect of Incorporated Nitrogens on the Planarity and Photovoltaic Performance of Donor-Acceptor Copolymers. <i>Macromolecules</i> , 2012, 45, 6415-6423.	4.8	51
13	Colorimetric Thermometer from Graphene Oxide Platform Integrated with Red, Green, and Blue Emitting, Responsive Block Copolymers. <i>Chemistry of Materials</i> , 2016, 28, 3446-3453.	6.7	51
14	A semiconducting polymer bulk heterojunction photoanode for solar water oxidation. <i>Nature Catalysis</i> , 2021, 4, 431-438.	34.4	48
15	Establishing Stability in Organic Semiconductor Photocathodes for Solar Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2020, 142, 7795-7802.	13.7	45
16	Controlling side-chain density of electron donating polymers for improving their packing structure and photovoltaic performance. <i>Chemical Communications</i> , 2011, 47, 3577.	4.1	44
17	Highly Luminescent Polymer Particles Driven by Thermally Reduced Graphene Quantum Dot Surfactants. <i>ACS Macro Letters</i> , 2014, 3, 985-990.	4.8	42
18	Donor-Acceptor Random versus Alternating Copolymers for Efficient Polymer Solar Cells: Importance of Optimal Composition in Random Copolymers. <i>Macromolecules</i> , 2016, 49, 2096-2105.	4.8	40

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19	Synthesis and side-chain engineering of phenyl-naphthalenediimide (PNDI)-based n-type polymers for efficient all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5449-5459.	10.3	29
20	Lead Halide Perovskite Quantum Dots To Enhance the Power Conversion Efficiency of Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12696-12704.	13.8	27
21	Terpolymer approach for controlling the crystalline behavior of naphthalene diimide-based polymer acceptors and enhancing the performance of all-polymer solar cells. <i>Polymer Journal</i> , 2016, 48, 517-524.	2.7	25
22	Fully Conjugated Donor-Acceptor Block Copolymers for Organic Photovoltaics via Heck-Mizoroki Coupling. <i>ACS Macro Letters</i> , 2019, 8, 134-139.	4.8	25
23	Polarity and Air-Stability Transitions in Field-Effect Transistors Based on Fullerenes with Different Solubilizing Groups. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4865-4871.	8.0	24
24	Multisubstituent and Substituent Effects on Charge Transport of Organic Hole Transport Materials. <i>Chemistry of Materials</i> , 2019, 31, 6605-6614.	6.7	21
25	A hybrid bulk-heterojunction photoanode for direct solar-to-chemical conversion. <i>Energy and Environmental Science</i> , 2021, 14, 3141-3151.	30.8	20
26	Selective engineering of oxygen-containing functional groups using the alkyl ligand oleylamine for revealing the luminescence mechanism of graphene oxide quantum dots. <i>Nanoscale</i> , 2017, 9, 18635-18643.	5.6	19
27	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.	2.7	16
28	Enhancing Mechanical Properties of Highly Efficient Polymer Solar Cells Using Size-Tuned Polymer Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2668-2676.	8.0	16
29	Impact of highly crystalline, isoindigo-based small-molecular additives for enhancing the performance of all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21291-21299.	10.3	13
30	Lead Halide Perovskite Quantum Dots To Enhance the Power Conversion Efficiency of Organic Solar Cells. <i>Angewandte Chemie</i> , 2019, 131, 12826-12834.	2.0	10
31	Benzodithiophene-Based Spacers for Layered and Quasi-Layered Lead Halide Perovskite Solar Cells. <i>ChemSusChem</i> , 2021, 14, 3001-3009.	6.8	8
32	Bulk Heterojunction Organic Semiconductor Photoanodes: Tuning Energy Levels to Optimize Electron Injection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8191-8198.	8.0	5
33	Advancing operational stability and performance of organic photoanodes for solar water oxidation. <i>Trends in Chemistry</i> , 2022, 4, 93-95.	8.5	3