

Young Woong Lee

List of Publications by Year in descending order

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papers

480
citations

687363

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all docs

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19
times ranked

788
citing authors

#	ARTICLE	IF	CITATIONS
1	Subtle Polymer Donor and Molecular Acceptor Design Enable Efficient Polymer Solar Cells with a Very Small Energy Loss. <i>Advanced Functional Materials</i> , 2020, 30, 1907570.	14.9	89
2	Significantly Improved Morphology and Efficiency of Nonhalogenated Solvent-Processed Solar Cells Derived from a Conjugated Donor-Acceptor Block Copolymer. <i>Advanced Science</i> , 2020, 7, 1902470.	11.2	55
3	Putting Order into PM6:Y6 Solar Cells to Reduce the Langevin Recombination in 400-nm Thick Junction. <i>Solar Rrl</i> , 2020, 4, 2000498.	5.8	49
4	Naphthobistriazole-based wide bandgap donor polymers for efficient non-fullerene organic solar cells: Significant fine-tuning absorption and energy level by backbone fluorination. <i>Nano Energy</i> , 2018, 53, 258-269.	16.0	37
5	Achieving a High Fill Factor and Stability in Perylene Diimide-Based Polymer Solar Cells Using the Molecular Lock Effect between 4,4'-Bipyridine and a Tri(8-hydroxyquinoline)aluminum(III) Core. <i>Advanced Functional Materials</i> , 2019, 29, 1902079.	14.9	33
6	Influence of backbone modification of difluoroquinoxaline-based copolymers on the interchain packing, blend morphology and photovoltaic properties of nonfullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1681-1689.	5.5	25
7	Dithienothiapyran: An Excellent Donor Block for Building High-Performance Copolymers in Nonfullerene Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3308-3316.	8.0	23
8	A High Dielectric N-type Small Molecular Acceptor Containing Oligoethyleneglycol Side Chains for Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2018, 36, 199-205.	4.9	22
9	Regioisomeric wide-band-gap polymers with different fluorine topologies for non-fullerene organic solar cells. <i>Polymer Chemistry</i> , 2019, 10, 395-402.	3.9	22
10	Solvent-vapor-annealed A-type semicrystalline conjugated small molecules for flexible ambipolar field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5698-5706.	5.5	21
11	Realizing high-efficiency Multiple blend polymer solar cells via a unique parallel-series working mechanism. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24937-24946.	10.3	18
12	Impact of Terminal End-Group of Acceptor-Donor-Acceptor-type Small Molecules on Molecular Packing and Photovoltaic Properties. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39952-39961.	8.0	17
13	Triad-type, multi-functional compatibilizers for enhancing efficiency, stability and mechanical robustness of polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13522-13531.	10.3	16
14	Design of ultra-high luminescent polymers for organic photovoltaic cells with low energy loss. <i>Chemical Communications</i> , 2021, 57, 9132-9135.	4.1	12
15	Synthesis, Molecular Packing, and Electrical Properties of New Regioisomeric n-type Semiconducting Molecules with Modification of Alkyl Substituents Position. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47170-47181.	8.0	10
16	Fullerene-Based Photoactive A-D-A Triads for Single-Component Organic Solar Cells: Incorporation of Non-Fused Planar Conjugated Core. <i>Macromolecular Research</i> , 2021, 29, 871-881.	2.4	10
17	Developing Wide Bandgap Polymers Based on Sole Benzodithiophene Units for Efficient Polymer Solar Cells. <i>Chemistry - A European Journal</i> , 2020, 26, 11241-11249.	3.3	9
18	Fullerene-Based Triads with Controlled Alkyl Spacer Length as Photoactive Materials for Single-Component Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43174-43185.	8.0	8

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19	Regioisomeric Polythiophene Derivatives: Synthesis and Structure-Property Relationships for Organic Electronic Devices. <i>Macromolecular Research</i> , 2020, 28, 772-781.	2.4	4