

Indunil Angunawela

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,374
citations

430874

18
h-index

610901

24
g-index

25
all docs

25
docs citations

25
times ranked

1297
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymerized small molecular acceptor based all-polymer solar cells with an efficiency of 16.16% via tuning polymer blend morphology by molecular design. <i>Nature Communications</i> , 2021, 12, 5264.	12.8	170
2	High-Efficiency All-Small-Molecule Organic Solar Cells Based on an Organic Molecule Donor with Alkylsilyl-Thienyl Conjugated Side Chains. <i>Advanced Materials</i> , 2018, 30, e1706361.	21.0	154
3	High-Performance All-Polymer Solar Cells: Synthesis of Polymer Acceptor by a Random Ternary Copolymerization Strategy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15181-15185.	13.8	136
4	Alkyl-Chain Branching of Non-Fullerene Acceptors Flanking Conjugated Side Groups toward Highly Efficient Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2102596.	19.5	125
5	High performance tandem organic solar cells via a strongly infrared-absorbing narrow bandgap acceptor. <i>Nature Communications</i> , 2021, 12, 178.	12.8	122
6	A Difluoro-Monobromo End Group Enables High-Performance Polymer Acceptor and Efficient All-Polymer Solar Cells Processable with Green Solvent under Ambient Condition. <i>Advanced Functional Materials</i> , 2021, 31, 2100791.	14.9	89
7	16.52% Efficiency All-Polymer Solar Cells with High Tolerance of the Photoactive Layer Thickness. <i>Advanced Materials</i> , 2022, 34, e2108749.	21.0	63
8	High-Performance 3-D Fiber Network Composite Electrolyte Enabled with Li-Ion Conducting Nanofibers and Amorphous PEO-Based Cross-Linked Polymer for Ambient All-Solid-State Lithium-Metal Batteries. <i>Advanced Fiber Materials</i> , 2019, 1, 46-60.	16.1	59
9	Effect of the chlorine substitution position of the end-group on intermolecular interactions and photovoltaic performance of small molecule acceptors. <i>Energy and Environmental Science</i> , 2020, 13, 5028-5038.	30.8	56
10	Effects of Short-Axis Alkoxy Substituents on Molecular Self-Assembly and Photovoltaic Performance of Indacenodithiophene-Based Acceptors. <i>Advanced Functional Materials</i> , 2020, 30, 1906855.	14.9	50
11	Introducing Low-Cost Pyrazine Unit into Terpolymer Enables High-Performance Polymer Solar Cells with Efficiency of 18.23%. <i>Advanced Functional Materials</i> , 2022, 32, 2109271.	14.9	49
12	Synergistic Use of Pyridine and Selenophene in a Diketopyrrolopyrrole-Based Conjugated Polymer Enhances the Electron Mobility in Organic Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2000489.	14.9	43
13	Green solvent-processed organic solar cells based on a low cost polymer donor and a small molecule acceptor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7718-7724.	5.5	40
14	Improvement of Photovoltaic Performance of Polymer Solar Cells by Rational Molecular Optimization of Organic Molecule Acceptors. <i>Advanced Energy Materials</i> , 2018, 8, 1800815.	19.5	36
15	Precise Control of Phase Separation Enables 12% Efficiency in All Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2001589.	19.5	33
16	Competition between Exceptionally Long-Range Alkyl Sidechain Ordering and Backbone Ordering in Semiconducting Polymers and Its Impact on Electronic and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2019, 29, 1806977.	14.9	31
17	Effect of Replacing Thiophene by Selenophene on the Photovoltaic Performance of Wide Bandgap Copolymer Donors. <i>Macromolecules</i> , 2019, 52, 4776-4784.	4.8	26
18	The Critical Role of Materials TM Interaction in Realizing Organic Field-Effect Transistors Via High-Dilution Blending with Insulating Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26239-26249.	8.0	22

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19	High-Performance All-Polymer Solar Cells: Synthesis of Polymer Acceptor by a Random Ternary Copolymerization Strategy. <i>Angewandte Chemie</i> , 2020, 132, 15293-15297.	2.0	18
20	Investigating the active layer thickness dependence of non-fullerene organic solar cells based on PM7 derivatives. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15459-15469.	5.5	16
21	Multi-length scale morphology of nonfullerene all-small molecule blends and its relation to device function in organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019, 3, 137-144.	5.9	12
22	Effect of main and side chain chlorination on the photovoltaic properties of benzodithiophene-benzotriazole polymers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15426-15435.	5.5	10
23	High voltage all polymer solar cells with a polymer acceptor based on NDI and benzotriazole. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9031-9037.	5.5	7
24	Ultrathin P(NDI2OD-T2) Films with High Electron Mobility in Both Bottom-Gate and Top-Gate Transistors. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	7
25	Competition between exceptionally long-range alkyl sidechain ordering and backbone ordering in semiconducting polymers and its impact on electronic and optoelectronic properties. <i>Advanced Functional Materials</i> , 2018, 29, .	14.9	0