

Jeromy Rech

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,525
citations

304602

22
h-index

315616

38
g-index

40
all docs

40
docs citations

40
times ranked

1708
citing authors

#	ARTICLE	IF	CITATIONS
1	Resolving the Molecular Origin of Mechanical Relaxations in Donor-Acceptor Polymer Semiconductors. <i>Advanced Functional Materials</i> , 2022, 32, 2105597.	7.8	15
2	Ultra-High Alignment of Polymer Semiconductor Blends Enabling Photodetectors with Exceptional Polarization Sensitivity. <i>Advanced Functional Materials</i> , 2022, 32, 2105820.	7.8	7
3	Semi-paracrystallinity in semi-conducting polymers. <i>Materials Horizons</i> , 2022, 9, 1196-1206.	6.4	18
4	Effect of osmotic ballast properties on the performance of a concentration gradient battery. <i>Water Research</i> , 2022, 212, 118076.	5.3	3
5	Functionalization of Benzotriazole-Based Conjugated Polymers for Solar Cells: Heteroatom vs Substituents. <i>ACS Applied Polymer Materials</i> , 2021, 3, 30-41.	2.0	14
6	A molecular interaction-diffusion framework for predicting organic solar cell stability. <i>Nature Materials</i> , 2021, 20, 525-532.	13.3	212
7	Mantis shrimp-inspired organic photodetector for simultaneous hyperspectral and polarimetric imaging. <i>Science Advances</i> , 2021, 7, .	4.7	51
8	Designing Simple Conjugated Polymers for Scalable and Efficient Organic Solar Cells. <i>ChemSusChem</i> , 2021, 14, 3561-3568.	3.6	36
9	Aggregation Controlled Charge Generation in Fullerene Based Bulk Heterojunction Polymer Solar Cells: Effect of Additive. <i>Polymers</i> , 2021, 13, 115.	2.0	6
10	Organic Solar Cells with Large Insensitivity to Donor Polymer Molar Mass across All Acceptor Classes. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5300-5308.	2.0	7
11	Effects of Fluorination Position on Fused-Ring Electron Acceptors. <i>Small Structures</i> , 2020, 1, 2000006.	6.9	8
12	Ternary Blending Driven Molecular Reorientation of Non-Fullerene Acceptor IDIC with Backbone Order. <i>ACS Applied Energy Materials</i> , 2020, 3, 10814-10822.	2.5	15
13	The Role of Demixing and Crystallization Kinetics on the Stability of Non-Fullerene Organic Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2005348.	11.1	74
14	High-Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer. <i>Advanced Energy Materials</i> , 2020, 10, 2000823.	10.2	23
15	Effects of linking units on fused-ring electron acceptor dimers. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13735-13741.	5.2	8
16	Role of Secondary Thermal Relaxations in Conjugated Polymer Film Toughness. <i>Chemistry of Materials</i> , 2020, 32, 6540-6549.	3.2	27
17	Organic Solar Cells: High-Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer (<i>Adv. Energy Mater.</i> 25/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070109.	10.2	0
18	Utilizing Difluorinated Thiophene Units To Improve the Performance of Polymer Solar Cells. <i>Macromolecules</i> , 2019, 52, 6523-6532.	2.2	14

#	ARTICLE	IF	CITATIONS
19	The Importance of Entanglements in Optimizing the Mechanical and Electrical Performance of All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 5124-5132.	3.2	88
20	Effect of Cyano Substitution on Conjugated Polymers for Bulk Heterojunction Solar Cells. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3313-3322.	2.0	17
21	Pairing 1D/2D-conjugation donors/acceptors towards high-performance organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019, 3, 276-283.	3.2	9
22	Recombination between Photogenerated and Electrode-Induced Charges Dominates the Fill Factor Losses in Optimized Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3473-3480.	2.1	26
23	The crucial role of end group planarity for fused-ring electron acceptors in organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1642-1652.	3.2	12
24	Delineation of Thermodynamic and Kinetic Factors that Control Stability in Non-fullerene Organic Solar Cells. <i>Joule</i> , 2019, 3, 1328-1348.	11.7	143
25	The impact of fluorination on both donor polymer and non-fullerene acceptor: The more fluorine, the merrier. <i>Nano Research</i> , 2019, 12, 2400-2405.	5.8	28
26	Green-Solvent-Processed Conjugated Polymers for Organic Solar Cells: The Impact of Oligoethylene Glycol Side Chains. <i>ACS Applied Polymer Materials</i> , 2019, 1, 804-814.	2.0	39
27	Highly Efficient, Stable, and Ductile Ternary Nonfullerene Organic Solar Cells from a Two-Donor Polymer Blend. <i>Advanced Materials</i> , 2019, 31, e1808279.	11.1	79
28	Revealing the Impact of F4-CNQ as Additive on Morphology and Performance of High-Efficiency Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1806262.	7.8	55
29	Panchromatic All-Polymer Photodetector with Tunable Polarization Sensitivity. <i>Advanced Optical Materials</i> , 2019, 7, 1801346.	3.6	26
30	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.	7.8	31
31	Effects of Terminal Groups in Third Components on Performance of Organic Solar Cells. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2019, 35, 275-283.	2.2	3
32	A carbon-oxygen-bridged hexacyclic ladder-type building block for low-bandgap nonfullerene acceptors. <i>Materials Chemistry Frontiers</i> , 2018, 2, 700-703.	3.2	41
33	Enhancing the performance of the electron acceptor ITIC-Th <i>via</i> tailoring its end groups. <i>Materials Chemistry Frontiers</i> , 2018, 2, 537-543.	3.2	46
34	Enhancing the performance of a fused-ring electron acceptor <i>via</i> extending benzene to naphthalene. <i>Journal of Materials Chemistry C</i> , 2018, 6, 66-71.	2.7	38
35	End-cap Group Engineering of a Small Molecule Non-Fullerene Acceptor: The Influence of Benzothiophene Dioxide. <i>ACS Applied Energy Materials</i> , 2018, 1, 7146-7152.	2.5	12
36	A Fused Ring Electron Acceptor with Decacyclic Core Enables over 13.5% Efficiency for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1802050.	10.2	97

#	ARTICLE	IF	CITATIONS
37	Measuring Temperature-Dependent Miscibility for Polymer Solar Cell Blends: An Easily Accessible Optical Method Reveals Complex Behavior. Chemistry of Materials, 2018, 30, 3943-3951.	3.2	38
38	Effect of Core Size on Performance of Fused-Ring Electron Acceptors. Chemistry of Materials, 2018, 30, 5390-5396.	3.2	102
39	Competition between exceptionally long-range alkyl sidechain ordering and backbone ordering in semiconducting polymers and its impact on electronic and optoelectronic properties. Advanced Functional Materials, 2018, 29, .	7.8	0
40	Fluorinated Thiophene Units Improve Photovoltaic Device Performance of Donor-acceptor Copolymers. Chemistry of Materials, 2017, 29, 5990-6002.	3.2	57