

Rawad K Hallani

List of Publications by Year in descending order

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26
papers

1,529
citations

516561

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25
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docs citations

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times ranked

2407
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembled Monolayer Enables Hole Transport Layer-Free Organic Solar Cells with 18% Efficiency and Improved Operational Stability. <i>ACS Energy Letters</i> , 2020, 5, 2935-2944.	8.8	425
2	The entangled triplet pair state in acene and heteroacene materials. <i>Nature Communications</i> , 2017, 8, 15953.	5.8	171
3	Balancing Ionic and Electronic Conduction for High-Performance Organic Electrochemical Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 1907657.	7.8	131
4	A survey of electron-deficient pentacenes as acceptors in polymer bulk heterojunction solar cells. <i>Chemical Science</i> , 2011, 2, 363-368.	3.7	121
5	Ethylene Glycol-Based Side Chain Length Engineering in Polythiophenes and its Impact on Organic Electrochemical Transistor Performance. <i>Chemistry of Materials</i> , 2020, 32, 6618-6628.	3.2	92
6	Crossover from band-like to thermally activated charge transport in organic transistors due to strain-induced traps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6739-E6748.	3.3	77
7	Regiochemistry-Driven Organic Electrochemical Transistor Performance Enhancement in Ethylene Glycol-Functionalized Polythiophenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 11007-11018.	6.6	74
8	The Effect of Alkyl Spacers on the Mixed Ionic-Electronic Conduction Properties of n-Type Polymers. <i>Advanced Functional Materials</i> , 2021, 31, 2008718.	7.8	67
9	Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO ₃) Electron Transport Layer. <i>ACS Applied Energy Materials</i> , 2019, 2, 8090-8097.	2.5	51
10	Structural and Electronic Properties of Crystalline, Isomerically Pure Anthradithiophene Derivatives. <i>Advanced Functional Materials</i> , 2016, 26, 2341-2348.	7.8	44
11	The Influence of Isomer Purity on Trap States and Performance of Organic Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2017, 3, 1600294.	2.6	37
12	Photophysical characterization and time-resolved spectroscopy of a anthradithiophene dimer: exploring the role of conformation in singlet fission. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23162-23175.	1.3	31
13	Synthesis and Properties of Isomerically Pure Anthrabisbenzothiophenes. <i>Organic Letters</i> , 2012, 14, 62-65.	2.4	29
14	The effect of aromatic ring size in electron deficient semiconducting polymers for n-type organic thermoelectrics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15150-15157.	2.7	28
15	Lactone Backbone Density in Rigid Electron-Deficient Semiconducting Polymers Enabling High n-type Organic Thermoelectric Performance. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	26
16	A new cross-linkable 9,10-diphenylanthracene derivative as a wide bandgap host for solution-processed organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12948-12954.	2.7	20
17	Single-molecule imaging of organic semiconductors: Toward nanoscale insights into photophysics and molecular packing. <i>Chemical Physics Letters</i> , 2015, 629, 29-35.	1.2	17
18	Low-Temperature Cross-Linking Benzocyclobutene Based Polymer Dielectric for Organic Thin Film Transistors on Plastic Substrates. <i>Journal of Organic Chemistry</i> , 2020, 85, 277-283.	1.7	17

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19	A Multilayered Electron Extracting System for Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2004273.	7.8	17
20	Growth, Structure, and Anisotropic Optical Properties of Difluoro-anthradithiophene Thin Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21011-21017.	1.5	11
21	The role of orientation in the MEL response of OLEDs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10052-10064.	2.7	10
22	Alternative Thieno[3,2-b][1]benzothiophene Isoindigo Polymers for Solar Cell Applications. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700820.	2.0	9
23	The effect of regioisomerism on the crystal packing and device performance of desymmetrized anthradithiophenes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8956-8962.	2.7	8
24	Design of organic ternary blends and small-molecule bulk heterojunctions: photophysical considerations. <i>Journal of Photonics for Energy</i> , 2015, 5, 057208.	0.8	8
25	Lactone Backbone Density in Rigid Electron-Deficient Semiconducting Polymers Enabling High n-type Organic Thermoelectric Performance. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	8
26	Organic Electronics: The Influence of Isomer Purity on Trap States and Performance of Organic Thin-Film Transistors (<i>Adv. Electron. Mater.</i> 1/2017). <i>Advanced Electronic Materials</i> , 2017, 3, .	2.6	0