

Muhammad R Niazi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

1,660
citations

18
h-index

37
g-index

37
ext. papers

1,933
ext. citations

12.2
avg, IF

4.53
L-index

#	Paper	IF	Citations
33	Molecular Design of Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10252-9	16.4	189
32	Solution-printed organic semiconductor blends exhibiting transport properties on par with single crystals. <i>Nature Communications</i> , 2015 , 6, 8598	17.4	188
31	Single crystal hybrid perovskite field-effect transistors. <i>Nature Communications</i> , 2018 , 9, 5354	17.4	177
30	N-type organic electrochemical transistors with stability in water. <i>Nature Communications</i> , 2016 , 7, 13066	17.4	170
29	Blade-Coated Hybrid Perovskite Solar Cells with Efficiency > 17%: An In Situ Investigation. <i>ACS Energy Letters</i> , 2018 , 3, 1078-1085	20.1	132
28	A thieno[3,2-b][1]benzothiophene isoindigo building block for additive- and annealing-free high-performance polymer solar cells. <i>Advanced Materials</i> , 2015 , 27, 4702-7	24	113
27	Vertical Phase Separation in Small Molecule:Polymer Blend Organic Thin Film Transistors Can Be Dynamically Controlled. <i>Advanced Functional Materials</i> , 2016 , 26, 1737-1746	15.6	85
26	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	11.5	62
25	Contact-Induced Nucleation in High-Performance Bottom-Contact Organic Thin Film Transistors Manufactured by Large-Area Compatible Solution Processing. <i>Advanced Functional Materials</i> , 2016 , 26, 2371-2378	15.6	60
24	In situ UV-visible absorption during spin-coating of organic semiconductors: a new probe for organic electronics and photovoltaics. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3373	7.1	59
23	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2018 , 30, e1801661	24	58
22	The Impact of Molecular p-Doping on Charge Transport in High-Mobility Small-Molecule/Polymer Blend Organic Transistors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700464	6.4	52
21	Late stage crystallization and healing during spin-coating enhance carrier transport in small-molecule organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5681-5689	7.1	51
20	Addition of the Lewis Acid Zn(CF ₃) ₂ Enables Organic Transistors with a Maximum Hole Mobility in Excess of 20 cm ² V ⁻¹ s ⁻¹ . <i>Advanced Materials</i> , 2019 , 31, e1900871	24	48
19	Conducting and Stretchable PEDOT:PSS Electrodes: Role of Additives on Self-Assembly, Morphology, and Transport. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17570-17582	9.5	41
18	Impact of the Gate Dielectric on Contact Resistance in High-Mobility Organic Transistors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800723	6.4	31
17	Strong Enhancement of π -Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17312-17321	16.4	31

16	Programmable and coherent crystallization of semiconductors. <i>Science Advances</i> , 2017 , 3, e1602462	14.3	27
15	Impact of p-type doping on charge transport in blade-coated small-molecule:polymer blend transistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15368-15376	7.1	14
14	Laser-Printed Organic Thin-Film Transistors. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700167	6.8	12
13	Bistetracene Thin Film Polymorphic Control to Unravel the Effect of Molecular Packing on Charge Transport. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701607	4.6	10
12	A macrocyclic oligofuran: synthesis, solid state structure and electronic properties. <i>Chemical Science</i> , 2019 , 10, 8527-8532	9.4	9
11	Strong Enhancement of Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie</i> , 2019 , 131, 17473-17482	3.6	9
10	Nitroaromatics as n-type organic semiconductors for field effect transistors. <i>Chemical Communications</i> , 2020 , 56, 6432-6435	5.8	7
9	Mechanism of the Photodegradation of A-D-A Acceptors for Organic Photovoltaics*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24833-24837	16.4	6
8	Controlling Structural and Energetic Disorder in High-Mobility Polymer Semiconductors via Doping with Nitroaromatics. <i>Chemistry of Materials</i> , 2021 , 33, 2937-2947	9.6	5
7	Star-shaped triarylamine-based hole-transport materials in perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 779-787	5.8	4
6	Systematic Study on the Morphological Development of Blade-Coated Conjugated Polymer Thin Films via In Situ Measurements. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36417-36427	9.5	3
5	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (Adv. Mater. 35/2018). <i>Advanced Materials</i> , 2018 , 30, 1870260	24	3
4	Conjugated polymers with controllable interfacial order and energetics enable tunable heterojunctions in organic and colloidal quantum dot photovoltaics. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1788-1801	13	2
3	A Universal Cosolvent Evaporation Strategy Enables Direct Printing of Perovskite Single Crystals for Optoelectronic Device Applications.. <i>Advanced Materials</i> , 2022 , e2109862	24	1
2	Thin Film Transistors: Contact-Induced Nucleation in High-Performance Bottom-Contact Organic Thin Film Transistors Manufactured by Large-Area Compatible Solution Processing (Adv. Funct. Mater. 14/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 2396-2396	15.6	1
1	Solvent Vapor Annealing: Bistetracene Thin Film Polymorphic Control to Unravel the Effect of Molecular Packing on Charge Transport (Adv. Mater. Interfaces 9/2018). <i>Advanced Materials Interfaces</i> , 2018 , 5, 1870040	4.6	