

# Muhammad R Niazi

## List of Publications by Year in Descending Order

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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	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> , <b>2022</b> , 10, 1788-1801	13	2
32	A Universal Cosolvent Evaporation Strategy Enables Direct Printing of Perovskite Single Crystals for Optoelectronic Device Applications.. <i>Advanced Materials</i> , <b>2022</b> , e2109862	24	1
31	Controlling Structural and Energetic Disorder in High-Mobility Polymer Semiconductors via Doping with Nitroaromatics. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 2937-2947	9.6	5
30	Mechanism of the Photodegradation of A-D-A Acceptors for Organic Photovoltaics*. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 24833-24837	16.4	6
29	Nitroaromatics as n-type organic semiconductors for field effect transistors. <i>Chemical Communications</i> , <b>2020</b> , 56, 6432-6435	5.8	7
28	Star-shaped triarylamine-based hole-transport materials in perovskite solar cells. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 779-787	5.8	4
27	Systematic Study on the Morphological Development of Blade-Coated Conjugated Polymer Thin Films via In Situ Measurements. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 36417-36427	9.5	3
26	Impact of p-type doping on charge transport in blade-coated small-molecule:polymer blend transistors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15368-15376	7.1	14
25	Addition of the Lewis Acid Zn(C F ) Enables Organic Transistors with a Maximum Hole Mobility in Excess of 20 cm V s. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900871	24	48
24	Impact of the Gate Dielectric on Contact Resistance in High-Mobility Organic Transistors. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800723	6.4	31
23	Conducting and Stretchable PEDOT:PSS Electrodes: Role of Additives on Self-Assembly, Morphology, and Transport. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 17570-17582	9.5	41
22	A macrocyclic oligofuran: synthesis, solid state structure and electronic properties. <i>Chemical Science</i> , <b>2019</b> , 10, 8527-8532	9.4	9
21	Strong Enhancement of $\pi$ -Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 17473-17482	3.6	9
20	Strong Enhancement of $\pi$ -Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17312-17321	16.4	31
19	Bistetracene Thin Film Polymorphic Control to Unravel the Effect of Molecular Packing on Charge Transport. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701607	4.6	10
18	The Impact of Molecular p-Doping on Charge Transport in High-Mobility Small-Molecule/Polymer Blend Organic Transistors. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700464	6.4	52
17	Blade-Coated Hybrid Perovskite Solar Cells with Efficiency > 17%: An In Situ Investigation. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1078-1085	20.1	132

16	Single crystal hybrid perovskite field-effect transistors. <i>Nature Communications</i> , <b>2018</b> , 9, 5354	17.4	177
15	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (Adv. Mater. 35/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870260	24	3
14	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> , <b>2018</b> , 5, 1870040	4.6	
13	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801661	24	58
12	Programmable and coherent crystallization of semiconductors. <i>Science Advances</i> , <b>2017</b> , 3, e1602462	14.3	27
11	Laser-Printed Organic Thin-Film Transistors. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700167	6.8	12
10	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> , <b>2017</b> , 114, E6739-E6748	11.5	62
9	Molecular Design of Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10252-9	16.4	189
8	N-type organic electrochemical transistors with stability in water. <i>Nature Communications</i> , <b>2016</b> , 7, 13066	7.4	170
7	Contact-Induced Nucleation in High-Performance Bottom-Contact Organic Thin Film Transistors Manufactured by Large-Area Compatible Solution Processing. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2371-2378	15.6	60
6	Vertical Phase Separation in Small Molecule:Polymer Blend Organic Thin Film Transistors Can Be Dynamically Controlled. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1737-1746	15.6	85
5	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> , <b>2016</b> , 26, 2396-2396	15.6	1
4	A thieno[3,2-b][1]benzothiophene isoindigo building block for additive- and annealing-free high-performance polymer solar cells. <i>Advanced Materials</i> , <b>2015</b> , 27, 4702-7	24	113
3	Solution-printed organic semiconductor blends exhibiting transport properties on par with single crystals. <i>Nature Communications</i> , <b>2015</b> , 6, 8598	17.4	188
2	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> , <b>2014</b> , 2, 3373	7.1	59
1	Late stage crystallization and healing during spin-coating enhance carrier transport in small-molecule organic semiconductors. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 5681-5689	7.1	51