

# Muhammad R Niazi

## List of Publications by Year in descending order

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37  
papers

2,273  
citations

394421

19  
h-index

414414

32  
g-index

37  
all docs

37  
docs citations

37  
times ranked

3834  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	10.3	6
2	A Universal Cosolvent Evaporation Strategy Enables Direct Printing of Perovskite Single Crystals for Optoelectronic Device Applications. <i>Advanced Materials</i> , 2022, 34, e2109862.	21.0	18
3	Controlling Structural and Energetic Disorder in High-Mobility Polymer Semiconductors via Doping with Nitroaromatics. <i>Chemistry of Materials</i> , 2021, 33, 2937-2947.	6.7	15
4	Mechanism of the Photodegradation of A $\pi$ -D $\pi$ -A Acceptors for Organic Photovoltaics**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24833-24837.	13.8	47
5	Star-shaped triarylamine-based hole-transport materials in perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 779-787.	4.9	5
6	Systematic Study on the Morphological Development of Blade-Coated Conjugated Polymer Thin Films via In Situ Measurements. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 36417-36427.	8.0	15
7	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.	5.5	19
8	Nitroaromatics as n-type organic semiconductors for field effect transistors. <i>Chemical Communications</i> , 2020, 56, 6432-6435.	4.1	14
9	A macrocyclic oligofuran: synthesis, solid state structure and electronic properties. <i>Chemical Science</i> , 2019, 10, 8527-8532.	7.4	22
10	Strong Enhancement of $\pi$ - $\pi^*$ Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie</i> , 2019, 131, 17473-17482.	2.0	11
11	Strong Enhancement of $\pi$ - $\pi^*$ Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17312-17321.	13.8	48
12	Addition of the Lewis Acid Zn(C <sub>6</sub> F <sub>5</sub> ) <sub>2</sub> Enables Organic Transistors with a Maximum Hole Mobility in Excess of 20 cm <sup>2</sup> /Vs <sup>1</sup> s <sup>1</sup> . <i>Advanced Materials</i> , 2019, 31, e1900871.	21.0	64
13	Impact of the Gate Dielectric on Contact Resistance in High-Mobility Organic Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800723.	5.1	40
14	Conducting and Stretchable PEDOT:PSS Electrodes: Role of Additives on Self-Assembly, Morphology, and Transport. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17570-17582.	8.0	72
15	Frontispiece: Strong Enhancement of $\pi$ - $\pi^*$ Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .	13.8	0
16	Frontispiz: Strong Enhancement of $\pi$ - $\pi^*$ Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie</i> , 2019, 131, .	2.0	0
17	Bistetracene Thin Film Polymorphic Control to Unravel the Effect of Molecular Packing on Charge Transport. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701607.	3.7	14
18	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.	5.1	63

#	ARTICLE	IF	CITATIONS
19	Blade-Coated Hybrid Perovskite Solar Cells with Efficiency > 17%: An In Situ Investigation. ACS Energy Letters, 2018, 3, 1078-1085.	17.4	171
20	Single crystal hybrid perovskite field-effect transistors. Nature Communications, 2018, 9, 5354.	12.8	255
21	Solar Cells: Overcoming the Ambient Manufacturability Scalability Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (Adv. Mater. 35/2018). Advanced Materials, 2018, 30, 1870260.	21.0	3
22	Solvent Vapor Annealing: Bistetracene Thin Film Polymorphic Control to Unravel the Effect of Molecular Packing on Charge Transport (Adv. Mater. Interfaces 9/2018). Advanced Materials Interfaces, 2018, 5, 1870040.	3.7	0
23	Overcoming the Ambient Manufacturability Scalability Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. Advanced Materials, 2018, 30, e1801661.	21.0	79
24	Programmable and coherent crystallization of semiconductors. Science Advances, 2017, 3, e1602462.	10.3	35
25	Laser-Printed Organic Thin-Film Transistors. Advanced Materials Technologies, 2017, 2, 1700167.	5.8	17
26	Crossover from band-like to thermally activated charge transport in organic transistors due to strain-induced traps. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6739-E6748.	7.1	77
27	Organic Thin-Film Transistors: Laser-Printed Organic Thin-Film Transistors (Adv. Mater. Technol.) Tj ETQq1 1 0.784314 rgBT /Overl	5.8	9
28	Vertical Phase Separation in Small Molecule:Polymer Blend Organic Thin Film Transistors Can Be Dynamically Controlled. Advanced Functional Materials, 2016, 26, 1737-1746.	14.9	98
29	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.) Tj ETQq1 1 0.784314 rgBT /Overl	14.9	71
30	Molecular Design of Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. Journal of the American Chemical Society, 2016, 138, 10252-10259.	13.7	270
31	N-type organic electrochemical transistors with stability in water. Nature Communications, 2016, 7, 13066.	12.8	242
32	Contact-Induced Nucleation in High-Performance Bottom-Contact Organic Thin Film Transistors Manufactured by Large-Area Compatible Solution Processing. Advanced Functional Materials, 2016, 26, 2371-2378.	14.9	71
33	A Thieno[3,2-b]thiophene Isoindigo Building Block for Additive-Free and Annealing-Free High-Performance Polymer Solar Cells. Advanced Materials, 2015, 27, 4702-4707.	21.0	120
34	Solution-printed organic semiconductor blends exhibiting transport properties on par with single crystals. Nature Communications, 2015, 6, 8598.	12.8	219
35	In situ UV-visible absorption during spin-coating of organic semiconductors: a new probe for organic electronics and photovoltaics. Journal of Materials Chemistry C, 2014, 2, 3373.	5.5	82
36	Late stage crystallization and healing during spin-coating enhance carrier transport in small-molecule organic semiconductors. Journal of Materials Chemistry C, 2014, 2, 5681-5689.	5.5	58

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37	Mechanism of the Photodegradation of Aâ€ˆA Acceptors for Organic Photovoltaics. Angewandte Chemie, 0, , .	2.0	1