

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	Molecular Design of Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. <i>Journal of the American Chemical Society</i> , 2016, 138, 10252-10259.	13.7	270
2	Single crystal hybrid perovskite field-effect transistors. <i>Nature Communications</i> , 2018, 9, 5354.	12.8	255
3	N-type organic electrochemical transistors with stability in water. <i>Nature Communications</i> , 2016, 7, 13066.	12.8	242
4	Solution-printed organic semiconductor blends exhibiting transport properties on par with single crystals. <i>Nature Communications</i> , 2015, 6, 8598.	12.8	219
5	Blade-Coated Hybrid Perovskite Solar Cells with Efficiency > 17%: An In Situ Investigation. <i>ACS Energy Letters</i> , 2018, 3, 1078-1085.	17.4	171
6	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, 4702-4707.	21.0	120
7	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.	14.9	98
8	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.	5.5	82
9	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2018, 30, e1801661.	21.0	79
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> , 2017, 114, E6739-E6748.	7.1	77
11	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.	8.0	72
12	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.	14.9	71
13	Addition of the Lewis Acid $Zn(C_6F_5)_2$ Enables Organic Transistors with a Maximum Hole Mobility in Excess of $20 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$. <i>Advanced Materials</i> , 2019, 31, e1900871.	21.0	64
14	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
15	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.	5.5	58
16	Strong Enhancement of Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17312-17321.	13.8	48
17	Mechanism of the Photodegradation of Aromatic Acceptors for Organic Photovoltaics**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24833-24837.	13.8	47
18	Impact of the Gate Dielectric on Contact Resistance in High-Mobility Organic Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800723.	5.1	40

#	ARTICLE	IF	CITATIONS
19	Programmable and coherent crystallization of semiconductors. <i>Science Advances</i> , 2017, 3, e1602462.	10.3	35
20	A macrocyclic oligofuran: synthesis, solid state structure and electronic properties. <i>Chemical Science</i> , 2019, 10, 8527-8532.	7.4	22
21	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
22	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
23	Laser-Printed Organic Thin-Film Transistors. <i>Advanced Materials Technologies</i> , 2017, 2, 1700167.	5.8	17
24	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.	8.0	15
25	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
26	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
27	Nitroaromatics as n-type organic semiconductors for field effect transistors. <i>Chemical Communications</i> , 2020, 56, 6432-6435.	4.1	14
28	Strong Enhancement of π - π Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie</i> , 2019, 131, 17473-17482.	2.0	11
29	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
30	Star-shaped triarylamine-based hole-transport materials in perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 779-787.	4.9	5
31	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (<i>Adv. Mater.</i> 35/2018). <i>Advanced Materials</i> , 2018, 30, 1870260.	21.0	3
32	Thin Film Transistors: Contact-Induced Nucleation in High-Performance Bottom-Contact Organic Thin Film Transistors Manufactured by Large-Area Compatible Solution Processing (<i>Adv. Funct. Mater.</i>) <i>Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50</i>	14.0	2
33	Mechanism of the Photodegradation of π - π Acceptors for Organic Photovoltaics. <i>Angewandte Chemie</i> , 0, , .	2.0	1
34	Organic Thin-Film Transistors: Laser-Printed Organic Thin-Film Transistors (<i>Adv. Mater. Technol.</i>) <i>Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50</i>	5.8	0
35	Solvent Vapor Annealing: Bistetracene Thin Film Polymorphic Control to Unravel the Effect of Molecular Packing on Charge Transport (<i>Adv. Mater. Interfaces</i> 9/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870040.	3.7	0
36	Frontispiece: Strong Enhancement of π - π Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .	13.8	0

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37	Frontispiz: Strong Enhancement of π - π Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. <i>Angewandte Chemie</i> , 2019, 131, .	2.0	0