

Mamatimin Abbas

List of Publications by Year in descending order

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papers

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44
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citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Residues in Semiconducting Polymers: Impact on the Performance of Organic Electronic Devices. <i>ACS Macro Letters</i> , 2014, 3, 1134-1138.	4.8	102
2	Realization of solution processed multi-layer bulk heterojunction organic solar cells by electro-spray deposition. <i>Organic Electronics</i> , 2012, 13, 2130-2137.	2.6	57
3	Structural Characterization of Nickel Oxide Nanowires by X-ray Absorption Near-Edge Structure Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2512-2515.	2.6	50
4	Balanced charge carrier mobilities in bulk heterojunction organic solar cells. <i>Applied Physics Letters</i> , 2012, 101, 073302.	3.3	44
5	Manipulation of Crystal Structure by Methylthiolation Enabling Ultrahigh Mobility in a Pyrene-Based Molecular Semiconductor. <i>Advanced Materials</i> , 2021, 33, e2102914.	21.0	39
6	X-ray absorption near-edge structure and photoelectron spectroscopy of single-walled carbon nanotubes modified by a HBr solution. <i>Carbon</i> , 2006, 44, 866-872.	10.3	38
7	Synthesis of Bioinspired Curcuminoid Small Molecules for Solution-Processed Organic Solar Cells with High Open-Circuit Voltage. <i>ACS Energy Letters</i> , 2017, 2, 1303-1307.	17.4	34
8	Piezoelectric polymer gated OFET: Cutting-edge electro-mechanical transducer for organic MEMS-based sensors. <i>Scientific Reports</i> , 2016, 6, 38672.	3.3	33
9	First-principles study of the pressure-induced phase transition in CaTiO ₃ . <i>Solid State Communications</i> , 2005, 136, 416-420.	1.9	32
10	Control of Structural, Electronic, and Optical Properties of Eumelanin Films by Electro spray Deposition. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11199-11207.	2.6	32
11	Carbazole-Based Molecular Glasses as Hole-Transporting Materials in Solid State Dye-Sensitized Solar Cells. <i>ChemNanoMat</i> , 2015, 1, 203-210.	2.8	31
12	Mechanical strain induced changes in electrical characteristics of flexible, non-volatile ferroelectric OFET based memory. <i>Organic Electronics</i> , 2017, 40, 30-35.	2.6	29
13	Role of Oxide/Metal Bilayer Electrodes in Solution Processed Organic Field Effect Transistors. <i>Scientific Reports</i> , 2019, 9, 6685.	3.3	27
14	Water soluble poly(1-vinyl-1,2,4-triazole) as novel dielectric layer for organic field effect transistors. <i>Organic Electronics</i> , 2011, 12, 497-503.	2.6	26
15	Molecular engineering of carbazole-fluorene sensitizers for high open-circuit voltage DSSCs: Synthesis and performance comparison with iodine and cobalt electrolytes. <i>Dyes and Pigments</i> , 2015, 118, 76-87.	3.7	24
16	Charge carrier mobility, photovoltaic, and electroluminescent properties of anthracene-based conjugated polymers bearing randomly distributed side chains. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3425-3436.	2.3	23
17	A Multifunctional Interlayer for Solution Processed High Performance Indium Oxide Transistors. <i>Scientific Reports</i> , 2018, 8, 10946.	3.3	23
18	Effect of spacer insertion in a commonly used dithienosilole/benzothiadiazole-based low band gap copolymer for polymer solar cells. <i>European Polymer Journal</i> , 2013, 49, 4176-4188.	5.4	22

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19	Electronic state of C60 monolayer on Ag(111) before and after Yb intercalation. <i>Surface Science</i> , 2005, 586, 65-73.	1.9	21
20	Optical and electrical properties of electrochemically doped organic field effect transistors. <i>Journal of Luminescence</i> , 2013, 134, 107-112.	3.1	19
21	Fluorinated benzothiadiazole-based low band gap copolymers to enhance open-circuit voltage and efficiency of polymer solar cells. <i>European Polymer Journal</i> , 2014, 59, 25-35.	5.4	19
22	Heavy-atom effects in the parent [1]benzochalcogenopheno[3,2- <i>b</i>][1]benzochalcogenophene system. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15119-15127.	5.5	17
23	Directional crystallization of C8-BTBT-C8 thin films in a temperature gradient. <i>Materials Chemistry Frontiers</i> , 2021, 5, 249-258.	5.9	17
24	Di(<i>p</i> -methoxyphenyl)amine end-capped tri(<i>p</i> -thiophenylphenyl)amine based molecular glasses as hole transporting materials for solid-state dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 49590-49597.	3.6	16
25	Temperature dependent charge transport in organic field-effect transistors with the variation of both carrier concentration and electric field. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 495105.	2.8	15
26	Application of non-metal doped titania for inverted polymer solar cells. <i>Journal of Applied Physics</i> , 2012, 112, 123110.	2.5	13
27	Stability enhancement of polymer solar cells in trilayer configuration. <i>Thin Solid Films</i> , 2017, 640, 104-108.	1.8	12
28	Evolution of the nanostructure of Pt and Pt-Co polymer electrolyte membrane fuel cell electrocatalysts at successive degradation stages probed by X-ray photoemission. <i>Journal of Power Sources</i> , 2014, 271, 548-555.	7.8	11
29	Device engineering for high-performance, low-voltage operating organic field effect transistor on plastic substrate. <i>Flexible and Printed Electronics</i> , 2017, 2, 045004.	2.7	10
30	Low optical turn-on voltage in solution processed hybrid light emitting transistor. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	10
31	Efficiency enhancement in solid state dye sensitized solar cells by including inverse opals with controlled layer thicknesses. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2016, 21, 13-18.	2.0	9
32	Low voltage operating organic light emitting transistors with efficient charge blocking layer. <i>Organic Electronics</i> , 2021, 88, 106024.	2.6	9
33	Directional Crystallization from the Melt of an Organic p-Type and n-Type Semiconductor Blend. <i>Crystal Growth and Design</i> , 2021, 21, 5231-5239.	3.0	8
34	A Simple and Selective Fluorescent Sensor Chip for Indole-3-Butyric Acid in Mung Bean Sprouts Based on Molecularly Imprinted Polymer Coatings. <i>Sensors</i> , 2017, 17, 1954.	3.8	7
35	One-pot easily-processed TiO ₂ macroporous photoanodes (Ti-HIPE) for dye-sensitized solar cells. <i>Solid State Sciences</i> , 2014, 28, 81-89.	3.2	5
36	Exploring the Critical Thickness of Organic Semiconductor Layer for Enhanced Piezoresistive Sensitivity in Field-Effect Transistor Sensors. <i>Materials</i> , 2020, 13, 1583.	2.9	5

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37	Helical thienothiophene (TT) and benzothienoâ€“benzothiophene (BTBT) derivatives: synthesis, structural characterization and semiconducting properties. Journal of Materials Chemistry C, 2022, 10, 8034-8042.	5.5	5
38	Control of carrier mobilities for performance enhancement of anthracene-based polymer solar cells. RSC Advances, 2015, 5, 50668-50672.	3.6	4
39	Control of heteropolymeric to oligomeric character in electrospray deposited melanin films. Polymer International, 2016, 65, 1267-1275.	3.1	3
40	Interface modification of DNTT-based organic field effect transistors using boronic acid derivatives. Journal Physics D: Applied Physics, 2020, 53, 065108.	2.8	1
41	Synthesis and photovoltaic properties of a new donor-acceptor conjugated polymer based on fluorinated benzothiadiazole units. , 2014, , .		0
42	Incoherent charge separation dynamics in organic photovoltaics. , 2016, , .		0
43	Giant electro-mechanical transduction in all-organic MEMS for physical and chemical sensors. , 2016, , .		0
44	Formation of TiO2 nanostructures modified Eumelanin films with enhanced properties for biopolymer implementations. Thin Solid Films, 2020, 712, 138306.	1.8	0