# Mamatimin Abbas

List of Publications by Year
in descending order



| 44 | 902 | 394421 | 477307 |
|---|---|---|---|
| papers | citations | 19 h-index | 29 g-index |

| 44 | 44 | 44 | 1818 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | Directional crystallization of C8-BTBT-C8 thin films in a temperature gradient. Materials Chemistry Frontiers, 2021, 5, 249-258. | 5.9 | 17 |
| 3 | Low voltage operating organic light emitting transistors with efficient charge blocking layer. Organic Electronics, 2021, 88, 106024. | 2.6 | 9 |
| 4 | â€œManipulationâ€•of Crystal Structure by Methylthiolation Enabling Ultrahigh Mobility in a Pyreneâ€Based Molecular Semiconductor. Advanced Materials, 2021, 33, e2102914. | 21.0 | 39 |
| 5 | Directional Crystallization from the Melt of an Organic p-Type and n-Type Semiconductor Blend. Crystal Growth and Design, 2021, 21, 5231-5239. | 3.0 | 8 |
| 6 | Interface modification of DNTT-based organic field effect transistors using boronic acid derivatives. Journal Physics D: Applied Physics, 2020, 53, 065108. | 2.8 | 1 |
| 7 | Formation of TiO2 nanostructures modified Eumelanin films with enhanced properties for biopolymer implementations. Thin Solid Films, 2020, 712, 138306. | 1.8 | 0 |
| 8 | â€œHeavy-atom effectsâ€•in the parent [1]benzochalcogenopheno[3,2-b][1]benzochalcogenophene system. Journal of Materials Chemistry C, 2020, 8, 15119-15127. | 5.5 | 17 |
| 9 | Exploring the Critical Thickness of Organic Semiconductor Layer for Enhanced Piezoresistive Sensitivity in Field-Effect Transistor Sensors. Materials, 2020, 13, 1583. | 2.9 | 5 |
| 10 | Low optical turn-on voltage in solution processed hybrid light emitting transistor. Applied Physics Letters, 2019, 115, . | 3.3 | 10 |
| 11 | Role of Oxide/Metal Bilayer Electrodes in Solution Processed Organic Field Effect Transistors. Scientific Reports, 2019, 9, 6685. | 3.3 | 27 |
| 12 | A Multifunctional Interlayer for Solution Processed High Performance Indium Oxide Transistors. Scientific Reports, 2018, 8, 10946. | 3.3 | 23 |
| 13 | Synthesis of Bioinspired Curcuminoid Small Molecules for Solution-Processed Organic Solar Cells with High Open-Circuit Voltage. ACS Energy Letters, 2017, 2, 1303-1307. | 17.4 | 34 |
| 14 | Device engineering for high-performance, low-voltage operating organic field effect transistor on plastic substrate. Flexible and Printed Electronics, 2017, 2, 045004. | 2.7 | 10 |
| 15 | Stability enhancement of polymer solar cells in trilayer configuration. Thin Solid Films, 2017, 640, 104-108. | 1.8 | 12 |
| 16 | Mechanical strain induced changes in electrical characteristics of flexible, non-volatile ferroelectric OFET based memory. Organic Electronics, 2017, 40, 30-35. | 2.6 | 29 |
| 17 | A Simple and Selective Fluorescent Sensor Chip for Indole-3-Butyric Acid in Mung Bean Sprouts Based on Molecularly Imprinted Polymer Coatings. Sensors, 2017, 17, 1954. | 3.8 | 7 |
| 18 | Piezoelectric polymer gated OFET: Cutting-edge electro-mechanical transducer for organic MEMS-based sensors. Scientific Reports, 2016, 6, 38672. | 3.3 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Incoherent charge separation dynamics in organic photovoltaics. , 2016, , . | | 0 |
| 20 | Control of heteropolymeric to oligomeric character in electrospray deposited melanin films. Polymer International, 2016, 65, 1267-1275. | 3.1 | 3 |
| 21 | Efficiency enhancement in solid state dye sensitized solar cells by including inverse opals with controlled layer thicknesses. Photonics and Nanostructures - Fundamentals and Applications, 2016, 21, 13-18. | 2.0 | 9 |
| 22 | Giant electro-mechanical transduction in all-organic MEMS for physical and chemical sensors. , 2016, , . | | 0 |
| 23 | Control of carrier mobilities for performance enhancement of anthracene-based polymer solar cells. RSC Advances, 2015, 5, 50668-50672. | 3.6 | 4 |
| 24 | Di(p-methoxyphenyl)amine end-capped tri(p-thiophenylphenyl)amine based molecular glasses as hole transporting materials for solid-state dye-sensitized solar cells. RSC Advances, 2015, 5, 49590-49597. | 3.6 | 16 |
| 25 | Carbazoleâ€Based Molecular Glasses as Holeâ€Transporting Materials in Solid State Dyeâ€Sensitized Solar Cells. ChemNanoMat, 2015, 1, 203-210. | 2.8 | 31 |
| 26 | Molecular engineering of carbazole-fluorene sensitizers for high open-circuit voltage DSSCs: Synthesis and performance comparison with iodine and cobalt electrolytes. Dyes and Pigments, 2015, 118, 76-87. | 3.7 | 24 |
| 27 | Synthesis and photovoltaic properties of a new donor-acceptor conjugated polymer based on fluorinated benzothiadiazole units. , 2014, , . | | 0 |
| 28 | Metal Residues in Semiconducting Polymers: Impact on the Performance of Organic Electronic Devices. ACS Macro Letters, 2014, 3, 1134-1138. | 4.8 | 102 |
| 29 | Evolution of the nanostructure of Pt and Ptâ€“Co polymer electrolyte membrane fuel cell electrocatalysts at successive degradation stages probed by X-ray photoemission. Journal of Power Sources, 2014, 271, 548-555. | 7.8 | 11 |
| 30 | Fluorinated benzothiadiazole-based low band gap copolymers to enhance open-circuit voltage and efficiency of polymer solar cells. European Polymer Journal, 2014, 59, 25-35. | 5.4 | 19 |
| 31 | One-pot easily-processed TiO2 macroporous photoanodes (Ti-HIPE) for dye-sensitized solar cells. Solid State Sciences, 2014, 28, 81-89. | 3.2 | 5 |
| 32 | Effect of spacer insertion in a commonly used dithienosilole/benzothiadiazole-based low band gap copolymer for polymer solar cells. European Polymer Journal, 2013, 49, 4176-4188. | 5.4 | 22 |
| 33 | Optical and electrical properties of electrochemically doped organic field effect transistors. Journal of Luminescence, 2013, 134, 107-112. | 3.1 | 19 |
| 34 | Temperature dependent charge transport in organic field-effect transistors with the variation of both carrier concentration and electric field. Journal Physics D: Applied Physics, 2013, 46, 495105. | 2.8 | 15 |
| 35 | Balanced charge carrier mobilities in bulk heterojunction organic solar cells. Applied Physics Letters, 2012, 101, 073302. | 3.3 | 44 |
| 36 | Realization of solution processed multi-layer bulk heterojunction organic solar cells by electro-spray deposition. Organic Electronics, 2012, 13, 2130-2137. | 2.6 | 57 |

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|---|---|---|---|
| 37 | Application of non-metal doped titania for inverted polymer solar cells. Journal of Applied Physics, 2012, 112, 123110. | 2.5 | 13 |
| 38 | Charge carrier mobility, photovoltaic, and electroluminescent properties of anthraceneâ€based conjugated polymers bearing randomly distributed side chains. Journal of Polymer Science Part A, 2012, 50, 3425-3436. | 2.3 | 23 |
| 39 | Control of Structural, Electronic, and Optical Properties of Eumelanin Films by Electrospray Deposition. Journal of Physical Chemistry B, 2011, 115, 11199-11207. | 2.6 | 32 |
| 40 | Water soluble poly(1-vinyl-1,2,4-triazole) as novel dielectric layer for organic field effect transistors. Organic Electronics, 2011, 12, 497-503. | 2.6 | 26 |
| 41 | X-ray absorption near-edge structure and photoelectron spectroscopy of single-walled carbon nanotubes modified by a HBr solution. Carbon, 2006, 44, 866-872. | 10.3 | 38 |
| 42 | First-principles study of the pressure-induced phase transition in CaTiO3. Solid State Communications, 2005, 136, 416-420. | 1.9 | 32 |
| 43 | Electronic state of C60 monolayer on Ag(111) before and after Yb intercalation. Surface Science, 2005, 586, 65-73. | 1.9 | 21 |
| 44 | Structural Characterization of Nickel Oxide Nanowires by X-ray Absorption Near-Edge Structure Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 2512-2515. | 2.6 | 50 |