

Imran Murtaza

List of Publications by Year in descending order

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75
papers

1,557
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279798

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times ranked

2222
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Anthracene-based semiconductors for organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7416-7444. | 5.5 | 129 |
| 2 | A Unique Blend of 2-Fluorenyl-9-anthracene and 2-Anthryl-9-anthracene Showing White Emission and High Charge Mobility. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 722-727. | 13.8 | 94 |
| 3 | Highly Simplified Tandem Organic Light-Emitting Devices Incorporating a Green Phosphorescence Ultrathin Emitter within a Novel Interface Exciplex for High Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10955-10962. | 8.0 | 77 |
| 4 | Facile synthesis of defect-rich nitrogen and sulfur Co-doped graphene quantum dots as metal-free electrocatalyst for the oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2019, 792, 844-850. | 5.5 | 71 |
| 5 | A Unique Blend of 2-Fluorenyl-9-anthracene and 2-Anthryl-9-anthracene Showing White Emission and High Charge Mobility. <i>Angewandte Chemie</i> , 2017, 129, 740-745. | 2.0 | 70 |
| 6 | Promising PVC/MXene based flexible thin film nanocomposites with excellent dielectric, thermal and mechanical properties. <i>Ceramics International</i> , 2020, 46, 12593-12605. | 4.8 | 67 |
| 7 | Interfacial modification for heightening the interaction between PEDOT and substrate towards enhanced flexible solid supercapacitor performance. <i>Chemical Engineering Journal</i> , 2020, 379, 122326. | 12.7 | 52 |
| 8 | Highly Simplified Reddish Orange Phosphorescent Organic Light-Emitting Diodes Incorporating a Novel Carrier- and Exciton-Confining Spiro-Exciplex-Forming Host for Reduced Efficiency Roll-off. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2701-2710. | 8.0 | 48 |
| 9 | Reduced interface losses in inverted perovskite solar cells by using a simple dual-functional phenanthroline derivative. <i>Nano Energy</i> , 2018, 43, 72-80. | 16.0 | 43 |
| 10 | Highly transmissive blue electrochromic polymers based on thieno[3,2-b]thiophene. <i>Polymer Chemistry</i> , 2016, 7, 5351-5356. | 3.9 | 41 |
| 11 | Wide color-range tunable and low roll-off fluorescent organic light emitting devices based on double undoped ultrathin emitters. <i>Organic Electronics</i> , 2016, 37, 93-99. | 2.6 | 38 |
| 12 | Three-Dimensional Co ^{II} -S ^{IV} -P Nanoflowers as Highly Stable Electrode Materials for Asymmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11448-11454. | 6.7 | 35 |
| 13 | Dielectric, thermal and mechanical properties of hybrid PMMA/RGO/Fe ₂ O ₃ nanocomposites fabricated by in-situ polymerization. <i>Ceramics International</i> , 2020, 46, 5828-5840. | 4.8 | 35 |
| 14 | Thermal and Optical Modulation of the Carrier Mobility in OTFTs Based on an Azo-anthracene Liquid Crystal Organic Semiconductor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7305-7314. | 8.0 | 34 |
| 15 | A thermally stable anthracene derivative for application in organic thin film transistors. <i>Organic Electronics</i> , 2017, 43, 105-111. | 2.6 | 34 |
| 16 | Highly responsive phototransistors based on 2,6-bis(4-methoxyphenyl)anthracene single crystal. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5304-5309. | 5.5 | 34 |
| 17 | Design Strategy for Efficient Solution-Processable Red Electrochromic Polymers Based on Unconventional 3,6-Bis(dodecyloxy)thieno[3,2-b]thiophene Building Blocks. <i>Macromolecules</i> , 2018, 51, 7853-7862. | 4.8 | 33 |
| 18 | Investigation of improved dielectric and thermal properties of ternary nanocomposite PMMA/MXene/ZnO fabricated by in-situ bulk polymerization. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49197. | 2.6 | 33 |

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|----|---|------|-----------|
| 19 | Exploring the electrochromic properties of poly(thieno[3,2-b]thiophene)s decorated with electron-deficient side groups. <i>Polymer Chemistry</i> , 2017, 8, 769-784. | 3.9 | 32 |
| 20 | Development of fullerenes and their derivatives as semiconductors in field-effect transistors: exploring the molecular design. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3514-3537. | 5.5 | 31 |
| 21 | A "chain" strategy to construct a conjugated copolymer network for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 116-123. | 10.3 | 29 |
| 22 | Molecular phase engineering of organic semiconductors based on a [1]benzothieno[3,2-b][1]benzothiophene core. <i>RSC Advances</i> , 2016, 6, 95149-95155. | 3.6 | 26 |
| 23 | An efficient and thickness insensitive cathode interface material for high performance inverted perovskite solar cells with 17.27% efficiency. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5949-5955. | 5.5 | 24 |
| 24 | Alkoxy substituted [1]benzothieno[3,2-b][1]benzothiophene derivative with improved performance in organic thin film transistors. <i>Organic Electronics</i> , 2018, 56, 68-75. | 2.6 | 24 |
| 25 | Thin film transistors based on two dimensional graphene and graphene/semiconductor heterojunctions. <i>RSC Advances</i> , 2017, 7, 17387-17397. | 3.6 | 23 |
| 26 | Multi-colour electrochromic materials based on polyaromatic esters with low driving voltage. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9467-9473. | 5.5 | 21 |
| 27 | A Redox-Dependent Electrochromic Material: Tetra-EDOT Substituted Thieno[3,2-b]thiophene. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1344-1351. | 3.9 | 19 |
| 28 | In-plane isotropic charge transport characteristics of single-crystal FETs with high mobility based on 2,6-bis(4-methoxyphenyl)anthracene: experimental cum theoretical assessment. <i>Journal of Materials Chemistry C</i> , 2017, 5, 370-375. | 5.5 | 18 |
| 29 | Ag/PEPC/NiPc/ZnO/Ag thin film capacitive and resistive humidity sensors. <i>Journal of Semiconductors</i> , 2010, 31, 054002. | 3.7 | 17 |
| 30 | Design and characterization of methoxy modified organic semiconductors based on phenyl[1]benzothieno[3,2-b][1]benzothiophene. <i>RSC Advances</i> , 2017, 7, 5514-5518. | 3.6 | 16 |
| 31 | Humidity sensitive organic field effect transistor. <i>Journal of Semiconductors</i> , 2010, 31, 054001. | 3.7 | 15 |
| 32 | Intrinsic charge carrier mobility in single-crystal OFET by "fast trapping vs. slow detrapping" model. <i>Organic Electronics</i> , 2018, 54, 237-244. | 2.6 | 15 |
| 33 | Direct current and impedance spectroscopic studies on MoO ₃ modified ZnPc/ITO Schottky diodes. <i>Physica B: Condensed Matter</i> , 2011, 406, 533-536. | 2.7 | 14 |
| 34 | Unlocking the potential of diketopyrrolopyrrole-based solar cells by a pre-solvent annealing method in all-solution processing. <i>RSC Advances</i> , 2016, 6, 53587-53595. | 3.6 | 14 |
| 35 | Lead Zirconate Titanate (a piezoelectric ceramic)-Based thermal and tactile bimodal organic transistor sensors. <i>Organic Electronics</i> , 2020, 80, 105673. | 2.6 | 14 |
| 36 | Phenyl substitution in tetracene: a promising strategy to boost charge mobility in thin film transistors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2852-2858. | 5.5 | 13 |

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|----|--|-----|-----------|
| 37 | Investigating the Thermal Stability of Organic Thin-Film Transistors and Phototransistors Based on [1]â€Benzothieno[3,2-b]thiophene Dimeric Derivatives. <i>Chemistry - A European Journal</i> , 2018, 24, 16595-16602. | 3.3 | 13 |
| 38 | Polysiloxane-poly(vinyl alcohol) composite dielectrics for high-efficiency low voltage organic thin film transistors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4879-4886. | 5.5 | 13 |
| 39 | Humidity Sensor Based on Orange Dye and Graphene Solid Electrolyte Cells. <i>Russian Journal of Electrochemistry</i> , 2019, 55, 1391-1396. | 0.9 | 13 |
| 40 | Thieno[3,2-b]thiophene based electrochromic polymers: experimental cum theoretical appraisal of the EDOT position. <i>RSC Advances</i> , 2016, 6, 75522-75529. | 3.6 | 12 |
| 41 | A novel A-D-A small molecule with 1,8-naphthalimide as a potential non-fullerene acceptor for solution processable solar cells. <i>Dyes and Pigments</i> , 2017, 142, 39-50. | 3.7 | 12 |
| 42 | Recombination Strategy for Processable Ambipolar Electroactive Polymers in Pseudocapacitors. <i>Macromolecules</i> , 2018, 51, 7350-7359. | 4.8 | 12 |
| 43 | Electrospun PVA/TiC Nanofibers for High Performance Capacitive Humidity Sensing. <i>Microchemical Journal</i> , 2020, 157, 104974. | 4.5 | 11 |
| 44 | Evaluation of defects and current kinetics for aging analysis of PEDOT:PSS based supercapacitors. <i>Journal of Energy Storage</i> , 2020, 28, 101243. | 8.1 | 11 |
| 45 | Enhanced Energy Density of PANI/Co3O4/Graphene Ternary Nanocomposite in a Neutral Aqueous Electrolyte of Na2SO4 for Supercapacitor Applications. <i>Journal of Electronic Materials</i> , 2022, 51, 5417-5428. | 2.2 | 10 |
| 46 | Understanding the mechanism of improvement in practical specific capacity using halogen substituted anthraquinones as cathode materials in lithium batteries. <i>Electrochimica Acta</i> , 2017, 224, 622-627. | 5.2 | 9 |
| 47 | Pâ€170: Organic Light-Emitting Diodes Incorporating a Novel Exciplex-Forming Host: A Synergistic Strategy to Design Highly Simplified OLEDs for Application. <i>Digest of Technical Papers SID International Symposium</i> , 2017, 48, 1915-1918. | 0.3 | 8 |
| 48 | Recombination Strategy for Processable Ambipolar Electroactive Polymers in Pseudocapacitors. <i>Macromolecules</i> , 2018, 51, 5258-5266. | 4.8 | 8 |
| 49 | Dominance of Shape Anisotropy among Magnetostatic Interaction and Magnetocrystalline Anisotropy in Electrodeposited (FeCo) _{1-x} Cu _x (X=0.1-0.5) Ternary Alloy Nanowires. <i>Journal of Superconductivity</i> 1.8 and Novel Magnetism, 2020, 33, 1495-1505. | | 8 |
| 50 | Molybdenum carbide nano-sheet as a high capacity anode material for monovalent alkali metal-ion batteries-Theoretical investigation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126688. | 2.1 | 8 |
| 51 | Impedance spectroscopic studies of an organic semiconductor device incorporating a thin film of highly doped ZnPc with MoO3. <i>Physica B: Condensed Matter</i> , 2011, 406, 1238-1241. | 2.7 | 7 |
| 52 | Fluorene substituted thieno[3, 2-b]thiophene - a new electrochromic conjugated polymer. <i>Journal of Polymer Research</i> , 2021, 28, 1. | 2.4 | 7 |
| 53 | Thiophene-2,5-diester as electrochromic materials: The effect of ester groups on the device performance and stability. <i>Organic Electronics</i> , 2021, 96, 106188. | 2.6 | 7 |
| 54 | Controlled synthesis of the state-of-the-art quasi one-dimensional graphene nanostructure for high performance supercapacitor. <i>Synthetic Metals</i> , 2022, 289, 117131. | 3.9 | 7 |

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|----|---|-----|-----------|
| 55 | Tetra-EDOT substituted 3D electrochromic polymers with lower band gaps. <i>Science China Chemistry</i> , 2017, 60, 90-98. | 8.2 | 6 |
| 56 | Humidity dependent impedance response of graphene/carbon nanotubes composite. <i>Materials Research Express</i> , 2018, 5, 095028. | 1.6 | 6 |
| 57 | CuPc/C ₆₀ heterojunction thin film optoelectronic devices. <i>Journal of Semiconductors</i> , 2010, 31, 064005. | 3.7 | 5 |
| 58 | Computational screening and molecular design of anthracene-based semiconductors. <i>Organic Electronics</i> , 2018, 61, 87-95. | 2.6 | 5 |
| 59 | Investigation of charge and current dynamics in PVA-KOH gel electrolyte-based supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 2322-2335. | 2.2 | 5 |
| 60 | Substitution effect of super hydrophobic units: A new strategy to design deep blue fluorescent emitters. <i>Dyes and Pigments</i> , 2017, 139, 747-755. | 3.7 | 4 |
| 61 | A chrysene-based liquid crystalline semiconductor for organic thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3683-3689. | 5.5 | 4 |
| 62 | Anthracene derivatives as highly efficient deep-blue emitters with extremely low driving voltages, Von ≈ 2.7 V. <i>Dyes and Pigments</i> , 2020, 180, 108458. | 3.7 | 4 |
| 63 | Nanofibrous Membrane of Sulfonated Poly(ethylene terephthalate) for Removal of Metal Ions. <i>Current Nanoscience</i> , 2013, 9, 648-653. | 1.2 | 4 |
| 64 | Nickel Phthalocyanine-Based Sandwich-Type Photocapacitive Illumination Sensors for Environmental Monitoring. <i>Arabian Journal for Science and Engineering</i> , 2012, 37, 233-237. | 1.1 | 1 |
| 65 | Mobility and perpendicular magnetic anisotropy in electrodeposited Co ₃₂ Fe ₆₇ B ₁ thin films using boric acid as boron source. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 458, 156-163. | 2.3 | 1 |
| 66 | Dosimetric effect of limited aperture multileaf collimator on VMAT plan quality: A study of prostate and head-and-neck cancers. <i>Reports of Practical Oncology and Radiotherapy</i> , 2018, 23, 189-198. | 0.6 | 1 |
| 67 | Voltage dependent physical, dielectric and magnetic properties of electrodeposited Co _{1-x} Mn _x alloy nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 207-214. | 2.3 | 1 |
| 68 | Electric Properties of Organic-on-Inorganic n-Si/VOPc Heterojunction. <i>Eurasian Chemico-Technological Journal</i> , 2016, 11, 115. | 0.6 | 1 |
| 69 | Optoelectronic Properties of Vanadyl phthalocyanine Based Organic-Inorganic Hybrid Devices. <i>Applied Mechanics and Materials</i> , 0, 110-116, 3255-3260. | 0.2 | 0 |
| 70 | Poly-n-epoxypropylcarbazole complexes photocapacitive detectors. , 2011, , . | | 0 |
| 71 | Illumination Time Dependent Degradation of C ₆₀ Solar Cell Efficiencies. <i>Applied Mechanics and Materials</i> , 2013, 378, 125-130. | 0.2 | 0 |
| 72 | Structural and Uniaxial Magnetic Anisotropy of Co _{1-x} Mg _x (X = ≈ 0.04) Nanowires in Alumina Templates. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 809-815. | 1.8 | 0 |

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|----|--|-----|-----------|
| 73 | Magnetic hardening and exchange bias effect in dual-phase Co ₃ Mn nanowire arrays. Applied Physics A: Materials Science and Processing, 2021, 127, 1. | 2.3 | 0 |
| 74 | Effects of Tin Doping on the Physical Properties of Thermally Deposited Sb ₂ S ₃ Thin Films. Current Nanoscience, 2013, 9, 532-535. | 1.2 | 0 |
| 75 | Recent Advancements in High-Performance Solid Electrolytes for Li-ion Batteries: Towards a Solid Future. Current Nanoscience, 2020, 16, 507-533. | 1.2 | 0 |