

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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docs citations

77
times ranked

2222
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of charge and current dynamics in PVA/KOH gel electrolyte-based supercapacitor. Journal of Materials Science: Materials in Electronics, 2022, 33, 2322-2335.	2.2	5
2	Enhanced Energy Density of PANI/Co3O4/Graphene Ternary Nanocomposite in a Neutral Aqueous Electrolyte of Na2SO4 for Supercapacitor Applications. Journal of Electronic Materials, 2022, 51, 5417-5428.	2.2	10
3	Controlled synthesis of the state-of-the-art quasi one-dimensional graphene nanostructure for high performance supercapacitor. Synthetic Metals, 2022, 289, 117131.	3.9	7
4	Magnetic hardening and exchange bias effect in dual-phase Co3Mn nanowire arrays. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	0
5	Fluorene substituted thieno[3, 2-b]thiophene a new electrochromic conjugated polymer. Journal of Polymer Research, 2021, 28, 1.	2.4	7
6	Thiophene-2,5-diester as electrochromic materials: The effect of ester groups on the device performance and stability. Organic Electronics, 2021, 96, 106188.	2.6	7
7	Interfacial modification for heightening the interaction between PEDOT and substrate towards enhanced flexible solid supercapacitor performance. Chemical Engineering Journal, 2020, 379, 122326.	12.7	52
8	Structural and Uniaxial Magnetic Anisotropy of Co1-XMgX (X=0.04-0.12) Nanowires in Alumina Templates. Journal of Superconductivity and Novel Magnetism, 2020, 33, 809-815.	1.8	0
9	Dielectric, thermal and mechanical properties of hybrid PMMA/RGO/Fe2O3 nanocomposites fabricated by in-situ polymerization. Ceramics International, 2020, 46, 5828-5840.	4.8	35
10	Dominance of Shape Anisotropy among Magnetostatic Interaction and Magnetocrystalline Anisotropy in Electrodeposited (FeCo)1-xCux (X=0.1-0.5) Ternary Alloy Nanowires. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1495-1505.	1.8	8
11	Molybdenum carbide nano-sheet as a high capacity anode material for monovalent alkali metal-ion batteries a theoretical investigation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126688.	2.1	8
12	Anthracene derivatives as highly efficient deep-blue emitters with extremely low driving voltages, Von 2.7V. Dyes and Pigments, 2020, 180, 108458.	3.7	4
13	Electrospun PVA/TiC Nanofibers for High Performance Capacitive Humidity Sensing. Microchemical Journal, 2020, 157, 104974.	4.5	11
14	Investigation of improved dielectric and thermal properties of ternary nanocomposite PMMA/MXene/ZnO fabricated by in-situ bulk polymerization. Journal of Applied Polymer Science, 2020, 137, 49197.	2.6	33
15	Lead Zirconate Titanate (a piezoelectric ceramic)-Based thermal and tactile bimodal organic transistor sensors. Organic Electronics, 2020, 80, 105673.	2.6	14
16	Promising PVC/MXene based flexible thin film nanocomposites with excellent dielectric, thermal and mechanical properties. Ceramics International, 2020, 46, 12593-12605.	4.8	67
17	Evaluation of defects and current kinetics for aging analysis of PEDOT:PSS based supercapacitors. Journal of Energy Storage, 2020, 28, 101243.	8.1	11
18	Recent Advancements in High-Performance Solid Electrolytes for Li-ion Batteries: Towards a Solid Future. Current Nanoscience, 2020, 16, 507-533.	1.2	0

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19	Multi-colour electrochromic materials based on polyaromatic esters with low driving voltage. Journal of Materials Chemistry C, 2019, 7, 9467-9473.	5.5	21
20	A "chain" strategy to construct a conjugated copolymer network for supercapacitor applications. Journal of Materials Chemistry A, 2019, 7, 116-123.	10.3	29
21	Three-Dimensional Co-S-P Nanoflowers as Highly Stable Electrode Materials for Asymmetric Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 11448-11454.	6.7	35
22	Polysiloxane-poly(vinyl alcohol) composite dielectrics for high-efficiency low voltage organic thin film transistors. Journal of Materials Chemistry C, 2019, 7, 4879-4886.	5.5	13
23	Facile synthesis of defect-rich nitrogen and sulfur Co-doped graphene quantum dots as metal-free electrocatalyst for the oxygen reduction reaction. Journal of Alloys and Compounds, 2019, 792, 844-850.	5.5	71
24	Humidity Sensor Based on Orange Dye and Graphene Solid Electrolyte Cells. Russian Journal of Electrochemistry, 2019, 55, 1391-1396.	0.9	13
25	Voltage dependent physical, dielectric and magnetic properties of electrodeposited Co _{1-x} Mn _x alloy nanowires. Journal of Magnetism and Magnetic Materials, 2019, 474, 207-214.	2.3	1
26	Mobility and perpendicular magnetic anisotropy in electrodeposited Co ₃₂ Fe ₆₇ B ₁ thin films using boric acid as boron source. Journal of Magnetism and Magnetic Materials, 2018, 458, 156-163.	2.3	1
27	Alkoxy substituted [1]benzothieno[3,2-b][1]benzothiophene derivative with improved performance in organic thin film transistors. Organic Electronics, 2018, 56, 68-75.	2.6	24
28	Development of fullerenes and their derivatives as semiconductors in field-effect transistors: exploring the molecular design. Journal of Materials Chemistry C, 2018, 6, 3514-3537.	5.5	31
29	Intrinsic charge carrier mobility in single-crystal OFET by "fast trapping vs. slow detrapping" model. Organic Electronics, 2018, 54, 237-244.	2.6	15
30	Dosimetric effect of limited aperture multileaf collimator on VMAT plan quality: A study of prostate and head-and-neck cancers. Reports of Practical Oncology and Radiotherapy, 2018, 23, 189-198.	0.6	1
31	A chrysene-based liquid crystalline semiconductor for organic thin-film transistors. Journal of Materials Chemistry C, 2018, 6, 3683-3689.	5.5	4
32	Reduced interface losses in inverted perovskite solar cells by using a simple dual-functional phenanthroline derivative. Nano Energy, 2018, 43, 72-80.	16.0	43
33	Design Strategy for Efficient Solution-Processable Red Electrochromic Polymers Based on Unconventional 3,6-Bis(dodecyloxy)thieno[3,2- <i>b</i>]thiophene Building Blocks. Macromolecules, 2018, 51, 7853-7862.	4.8	33
34	Recombination Strategy for Processable Ambipolar Electroactive Polymers in Pseudocapacitors. Macromolecules, 2018, 51, 7350-7359.	4.8	12
35	Anthracene-based semiconductors for organic field-effect transistors. Journal of Materials Chemistry C, 2018, 6, 7416-7444.	5.5	129
36	Computational screening and molecular design of anthracene-based semiconductors. Organic Electronics, 2018, 61, 87-95.	2.6	5

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37	Humidity dependent impedance response of graphene/carbon nanotubes composite. <i>Materials Research Express</i> , 2018, 5, 095028.	1.6	6
38	Recombination Strategy for Processable Ambipolar Electroactive Polymers in Pseudocapacitors. <i>Macromolecules</i> , 2018, 51, 5258-5266.	4.8	8
39	Investigating the Thermal Stability of Organic Thin Film Transistors and Phototransistors Based on [1]benzothieno[3,2-b][1]benzothiophene Dimeric Derivatives. <i>Chemistry - A European Journal</i> , 2018, 24, 16595-16602.	3.3	13
40	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
41	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
42	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
43	Tetra-EDOT substituted 3D electrochromic polymers with lower band gaps. <i>Science China Chemistry</i> , 2017, 60, 90-98.	8.2	6
44	A thermally stable anthracene derivative for application in organic thin film transistors. <i>Organic Electronics</i> , 2017, 43, 105-111.	2.6	34
45	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
46	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
47	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
48	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
49	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
50	P4170: 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
51	Thin film transistors based on two dimensional graphene and graphene/semiconductor heterojunctions. <i>RSC Advances</i> , 2017, 7, 17387-17397.	3.6	23
52	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
53	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
54	A Unique Blend of 2-Fluorenyl-2-anthracene and 2-Anthryl-2-anthracene Showing White Emission and High Charge Mobility. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 722-727.	13.8	94

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	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
58	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
59	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
60	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
61	Highly transmissive blue electrochromic polymers based on thieno[3,2-b]thiophene. <i>Polymer Chemistry</i> , 2016, 7, 5351-5356.	3.9	41
62	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
63	A Redox-Dependent Electrochromic Material: <i>Tetr</i> -EDOT Substituted Thieno[3,2-b]thiophene. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1344-1351.	3.9	19
64	Electric Properties of Organic-on-Inorganic n-Si/VOPc Heterojunction. <i>Eurasian Chemico-Technological Journal</i> , 2016, 11, 115.	0.6	1
65	Illumination Time Dependent Degradation of C ₆₀ Solar Cell Efficiencies. <i>Applied Mechanics and Materials</i> , 2013, 378, 125-130.	0.2	0
66	Nanofibrous Membrane of Sulfonated Poly(ethylene terephthalate) for Removal of Metal Ions. <i>Current Nanoscience</i> , 2013, 9, 648-653.	1.2	4
67	Effects of Tin Doping on the Physical Properties of Thermally Deposited Sb ₂ S ₃ Thin Films. <i>Current Nanoscience</i> , 2013, 9, 532-535.	1.2	0
68	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
69	Poly-n-epoxypropylcarbazole complexes photocapacitive detectors. , 2011, , .		0
70	Impedance spectroscopic studies of an organic semiconductor device incorporating a thin film of highly doped ZnPc with MoO ₃ . <i>Physica B: Condensed Matter</i> , 2011, 406, 1238-1241.	2.7	7
71	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
72	Humidity sensitive organic field effect transistor. <i>Journal of Semiconductors</i> , 2010, 31, 054001.	3.7	15

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73	Ag/PEPC/NiPc/ZnO/Ag thin film capacitive and resistive humidity sensors. Journal of Semiconductors, 2010, 31, 054002.	3.7	17
74	CuPc/C ₆₀ heterojunction thin film optoelectronic devices. Journal of Semiconductors, 2010, 31, 064005.	3.7	5
75	Optoelectronic Properties of Vanadyl phthalocyanine Based Organic-Inorganic Hybrid Devices. Applied Mechanics and Materials, 0, 110-116, 3255-3260.	0.2	0