

Mumtaz Ali

List of Publications by Year in descending order

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31
papers

1,017
citations

394421

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434195

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docs citations

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times ranked

1059
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Grown MWCNTs/MXenes Nanocomposites on Carbon Cloth for High Performance Flexible Supercapacitors. <i>Advanced Functional Materials</i> , 2020, 30, 2002739.	14.9	92
2	Silver-Adapted Diffusive Memristor Based on Organic Nitrogen-Doped Graphene Oxide Quantum Dots (N-GOQDs) for Artificial Biosynapse Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1807504.	14.9	84
3	Fabrication of coral-reef structured nano silica for self-cleaning and super-hydrophobic textile applications. <i>Chemical Engineering Journal</i> , 2020, 401, 125859.	12.7	84
4	Dye-sensitized solar cell (DSSC) coated with energy down shift layer of nitrogen-doped carbon quantum dots (N-CQDs) for enhanced current density and stability. <i>Applied Surface Science</i> , 2019, 483, 425-431.	6.1	79
5	Nitrogen-doped carbon quantum dot based luminescent solar concentrator coupled with polymer dispersed liquid crystal device for smart management of solar spectrum. <i>Solar Energy</i> , 2019, 178, 48-55.	6.1	59
6	Tandem structured luminescent solar concentrator based on inorganic carbon quantum dots and organic dyes. <i>Solar Energy</i> , 2019, 190, 488-494.	6.1	58
7	Self-assembled nitrogen-doped graphene quantum dots (N-GQDs) over graphene sheets for superb electro-photocatalytic activity. <i>Applied Surface Science</i> , 2019, 480, 1035-1046.	6.1	52
8	Partially Oxidized MXene Ti_3C_2Tx Sheets for Memristor having Synapse and Threshold Resistive Switching Characteristics. <i>Advanced Electronic Materials</i> , 2021, 7, 2000866.	5.1	38
9	Self-assembled nanomanipulation of silica nanoparticles enable mechanochemically robust super hydrophobic and oleophilic textile. <i>Journal of Colloid and Interface Science</i> , 2020, 563, 62-73.	9.4	35
10	Activated charcoal and reduced graphene sheets composite structure for highly electro-catalytically active counter electrode material and water treatment. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7751-7763.	7.1	33
11	Microwave-assisted ultrafast in-situ growth of N-doped carbon quantum dots on multiwalled carbon nanotubes as an efficient electrocatalyst for photovoltaics. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 349-361.	9.4	32
12	Carbon Cloth: In Situ Grown MWCNTs/MXenes Nanocomposites on Carbon Cloth for High Performance Flexible Supercapacitors (<i>Adv. Funct. Mater.</i> 47/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070315.	14.9	31
13	Highly porous self-assembly of nitrogen-doped graphene quantum dots over reduced graphene sheets for photo-electrocatalytic electrode. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 174-184.	9.4	29
14	Graphene quantum dots induced porous orientation of holey graphene nanosheets for improved electrocatalytic activity. <i>Carbon</i> , 2021, 171, 493-506.	10.3	28
15	Development and Comfort Characterization of 2D-Woven Auxetic Fabric for Wearable and Medical Textile Applications. <i>Clothing and Textiles Research Journal</i> , 2018, 36, 199-214.	3.4	26
16	Development and Mechanical Characterization of Weave Design Based 2D Woven Auxetic Fabrics for Protective Textiles. <i>Fibers and Polymers</i> , 2018, 19, 2431-2438.	2.1	26
17	Study of influence of interlocking patterns on the mechanical performance of 3D multilayer woven composites. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 429-440.	3.1	25
18	Simulating alveoli-inspired air pockets in a ZnO/NiMoO ₄ /C ₃ N ₄ catalyst filter for toluene entrapment and photodecomposition. <i>Journal of Hazardous Materials</i> , 2021, 409, 124497.	12.4	23

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19	Unraveling the surface states related Stokes shift dependent electrocatalytic activity of N-doped carbon quantum dots for photovoltaic applications. <i>Carbon</i> , 2021, 181, 155-168.	10.3	23
20	An evidence for an organic N-doped multiwall carbon nanotube heterostructure and its superior electrocatalytic properties for promising dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8307-8322.	10.3	22
21	Gradient heating-induced bi-phase synthesis of carbon quantum dots (CQDs) on graphene-coated carbon cloth for efficient photoelectrocatalysis. <i>Carbon</i> , 2022, 196, 649-662.	10.3	22
22	Layer-by-Layer Self-Assembly of Hollow Nitrogen-Doped Carbon Quantum Dots on Cationized Textured Crystalline Silicon Solar Cells for an Efficient Energy Down-Shift. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10369-10381.	8.0	21
23	Optically excited threshold switching synapse characteristics on nitrogen-doped graphene oxide quantum dots (N-GOQDs). <i>Journal of Alloys and Compounds</i> , 2021, 855, 157514.	5.5	19
24	An all carbon dye sensitized solar cell: A sustainable and low-cost design for metal free wearable solar cell devices. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 386-401.	9.4	18
25	Optimization of mechanical/thermal properties of glass/flax/waste cotton hybrid composite. <i>Journal of Industrial Textiles</i> , 2021, 51, 768-787.	2.4	15
26	Fabrication induced spring-back in thermosetting woven composite parts with variable thickness. <i>Journal of Industrial Textiles</i> , 2018, 47, 1291-1304.	2.4	12
27	Enhanced charge transport characteristics in zinc oxide nanofibers via Mg ²⁺ doping for electron transport layer in perovskite solar cells and antibacterial textiles. <i>Ceramics International</i> , 2022, 48, 24363-24371.	4.8	11
28	Novel derivatives of 3D woven T-shaped composites with improved performance. <i>Journal of the Textile Institute</i> , 2019, 110, 267-273.	1.9	10
29	Optimizing the Auxetic Geometry Parameters in Few Yarns Based Auxetic Woven Fabrics for Enhanced Mechanical Properties Using Grey Relational Analysis. <i>Journal of Natural Fibers</i> , 2022, 19, 4594-4605.	3.1	6
30	Facile Preparation of a Wet-Laid Based Graphite Nanoplate and Polyethylene Terephthalate Staple Fiber Composite for Textile-Structured Rollable Electronics. <i>Journal of Electronic Materials</i> , 2021, 50, 5433-5441.	2.2	3
31	Characterization of Etched Graphite Nanoplates and Their Nonwoven Electrode Applications. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 061005.	1.8	1