Mumtaz Ali

List of Publications by Year
in descending order

31 papers	1,017 citations	394421 19 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	1059 citing authors

#	Article	IF	Citations
1	Optimizing the Auxetic Geometry Parameters in Few Yarns Based Auxetic Woven Fabrics for Enhanced Mechanical Properties Using Grey Relational Analysis. Journal of Natural Fibers, 2022, 19, 4594-4605.	3.1	6
2	Enhanced charge transport characteristics in zinc oxide nanofibers via Mg2+ doping for electron transport layer in perovskite solar cells and antibacterial textiles. Ceramics International, 2022, 48, 24363-24371.	4.8	11
3	Gradient heating-induced bi-phase synthesis of carbon quantum dots (CQDs) on graphene-coated carbon cloth for efficient photoelectrocatalysis. Carbon, 2022, 196, 649-662.	10.3	22
4	Characterization of Etched Graphite Nanoplates and Their Nonwoven Electrode Applications. ECS Journal of Solid State Science and Technology, 2022, 11, 061005.	1.8	1
5	Optimization of mechanical/thermal properties of glass/flax/waste cotton hybrid composite. Journal of Industrial Textiles, 2021, 51, 768-787.	2.4	15
6	Simulating alveoli-inspired air pockets in a ZnO/NiMoO4/C3N4 catalyst filter for toluene entrapment and photodecomposition. Journal of Hazardous Materials, 2021, 409, 124497.	12.4	23
7	Optically excited threshold switching synapse characteristics on nitrogen-doped graphene oxide quantum dots (N-GOQDs). Journal of Alloys and Compounds, 2021, 855, 157514.	5.5	19
8	Microwave-assisted ultrafast in-situ growth of N-doped carbon quantum dots on multiwalled carbon nanotubes as an efficient electrocatalyst for photovoltaics. Journal of Colloid and Interface Science, 2021, 586, 349-361.	9.4	32
9	Facile Preparation of a Wet-Laid Based Graphite Nanoplate and Polyethylene Terephthalate Staple Fiber Composite for Textile-Structured Rollable Electronics. Journal of Electronic Materials, 2021, 50, 5433-5441.	2.2	3
10	Unraveling the surface states related Stokes shift dependent electrocatalytic activity of N-doped carbon quantum dots for photovoltaic applications. Carbon, 2021, 181, 155-168.	10.3	23
11	Graphene quantum dots induced porous orientation of holey graphene nanosheets for improved electrocatalytic activity. Carbon, 2021, 171, 493-506.	10.3	28
12	Partially Oxidized MXene Ti₃C₂T_x Sheets for Memristor having Synapse and Threshold Resistive Switching Characteristics. Advanced Electronic Materials, 2021, 7, 2000866.	5.1	38
13	Activated charcoal and reduced graphene sheets composite structure for highly electro-catalytically active counter electrode material and water treatment. International Journal of Hydrogen Energy, 2020, 45, 7751-7763.	7.1	33
14	Self-assembled nanomanipulation of silica nanoparticles enable mechanochemically robust super hydrophobic and oleophilic textile. Journal of Colloid and Interface Science, 2020, 563, 62-73.	9.4	35
15	Carbon Cloth: In Situ Grown MWCNTs/MXenes Nanocomposites on Carbon Cloth for Highâ€Performance Flexible Supercapacitors (Adv. Funct. Mater. 47/2020). Advanced Functional Materials, 2020, 30, 2070315.	14.9	31
16	In Situ Grown MWCNTs/MXenes Nanocomposites on Carbon Cloth for Highâ€Performance Flexible Supercapacitors. Advanced Functional Materials, 2020, 30, 2002739.	14.9	92
17	Fabrication of coral-reef structured nano silica for self-cleaning and super-hydrophobic textile applications. Chemical Engineering Journal, 2020, 401, 125859.	12.7	84
18	An all carbon dye sensitized solar cell: A sustainable and low-cost design for metal free wearable solar cell devices. Journal of Colloid and Interface Science, 2020, 569, 386-401.	9.4	18

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19	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. ACS Applied Materials & Interfaces, 2020, 12, 10369-10381.	8.0	21
20	Tandem structured luminescent solar concentrator based on inorganic carbon quantum dots and organic dyes. Solar Energy, 2019, 190, 488-494.	6.1	58
21	Highly porous self-assembly of nitrogen-doped graphene quantum dots over reduced graphene sheets for photo-electrocatalytic electrode. Journal of Colloid and Interface Science, 2019, 557, 174-184.	9.4	29
22	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. Applied Surface Science, 2019, 483, 425-431.	6.1	79
23	Self-assembled nitrogen-doped graphene quantum dots (N-GQDs) over graphene sheets for superb electro-photocatalytic activity. Applied Surface Science, 2019, 480, 1035-1046.	6.1	52
24	Silverâ€Adapted Diffusive Memristor Based on Organic Nitrogenâ€Doped Graphene Oxide Quantum Dots (Nâ€GOQDs) for Artificial Biosynapse Applications. Advanced Functional Materials, 2019, 29, 1807504.	14.9	84
25	Nitrogen-doped carbon quantum dot based luminescent solar concentrator coupled with polymer dispersed liquid crystal device for smart management of solar spectrum. Solar Energy, 2019, 178, 48-55.	6.1	59
26	Novel derivatives of 3D woven T-shaped composites with improved performance. Journal of the Textile Institute, 2019, 110, 267-273.	1.9	10
27	Study of influence of interlocking patterns on the mechanical performance of 3D multilayer woven composites. Journal of Reinforced Plastics and Composites, 2018, 37, 429-440.	3.1	25
28	Development and Comfort Characterization of 2D-Woven Auxetic Fabric for Wearable and Medical Textile Applications. Clothing and Textiles Research Journal, 2018, 36, 199-214.	3.4	26
29	An evidence for an organic N-doped multiwall carbon nanotube heterostructure and its superior electrocatalytic properties for promising dye-sensitized solar cells. Journal of Materials Chemistry A, 2018, 6, 8307-8322.	10.3	22
30	Fabrication induced spring-back in thermosetting woven composite parts with variable thickness. Journal of Industrial Textiles, 2018, 47, 1291-1304.	2.4	12
31	Development and Mechanical Characterization of Weave Design Based 2D Woven Auxetic Fabrics for Protective Textiles. Fibers and Polymers, 2018, 19, 2431-2438.	2.1	26