

Muhammad Idrees

List of Publications by Year in descending order

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29
papers

1,242
citations

430874

18
h-index

477307

29
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docs citations

29
times ranked

1355
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyborosilazane derived ceramics - Nitrogen sulfur dual doped graphene nanocomposite anode for enhanced lithium ion batteries. <i>Electrochimica Acta</i> , 2019, 296, 925-937.	5.2	198
2	Photopolymerization-based additive manufacturing of ceramics: A systematic review. <i>Journal of Advanced Ceramics</i> , 2021, 10, 442-471.	17.4	136
3	Adsorption of copper (II) by using derived-farmyard and poultry manure biochars: Efficiency and mechanism. <i>Chemical Physics Letters</i> , 2017, 689, 190-198.	2.6	84
4	Additive manufacturing of polymer-derived ceramics: Materials, technologies, properties and potential applications. <i>Progress in Materials Science</i> , 2022, 128, 100969.	32.8	84
5	Animal manure-derived biochars produced via fast pyrolysis for the removal of divalent copper from aqueous media. <i>Journal of Environmental Management</i> , 2018, 213, 109-118.	7.8	76
6	Design and fabrication of Fe ₂ O ₃ /FeP heterostructure for oxygen evolution reaction electrocatalysis. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162409.	5.5	68
7	Adsorption and thermodynamic mechanisms of manganese removal from aqueous media by biowaste-derived biochars. <i>Journal of Molecular Liquids</i> , 2018, 266, 373-380.	4.9	62
8	Achieving carbon-rich silicon-containing ceramic anode for advanced lithium ion battery. <i>Ceramics International</i> , 2019, 45, 10572-10580.	4.8	58
9	Sorption of Cr(III) from aqueous media via naturally functionalized microporous biochar: Mechanistic study. <i>Microchemical Journal</i> , 2019, 144, 242-253.	4.5	51
10	Assessment of the electrochemical behaviour of silicon@carbon nanocomposite anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154644.	5.5	48
11	High-performance flexible hybrid-supercapacitor enabled by pairing binder-free ultrathin Ni-Co-O nanosheets and metal-organic framework derived N-doped carbon nanosheets. <i>Electrochimica Acta</i> , 2020, 349, 136384.	5.2	45
12	Novel charm of 2D materials engineering in memristor: when electronics encounter layered morphology. <i>Nanoscale Horizons</i> , 2022, 7, 480-507.	8.0	40
13	High-efficiency remediation of cadmium (Cd ²⁺) from aqueous solution using poultry manure and farmyard manure-derived biochars. <i>Separation Science and Technology</i> , 2016, 51, 2307-2317.	2.5	37
14	Design and Fabrication of Highly Porous 2D Bimetallic Sulfide ZnS/FeS Composite Nanosheets as an Advanced Negative Electrode Material for Supercapacitors. <i>Energy & Fuels</i> , 2021, 35, 15185-15191.	5.1	37
15	Design and characterization of a biomass template/SnO ₂ nanocomposite for enhanced adsorption of 2,4-dichlorophenol. <i>Environmental Research</i> , 2020, 181, 108955.	7.5	35
16	Biosynthesis of silver nanoparticles using <i>Sida acuta</i> extract for antimicrobial actions and corrosion inhibition potential. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 1071-1078.	2.2	30
17	3D printed PC/SiOC@Zn hybrid composite as dendrite-free anode for Zn-Ion battery. <i>Nano Energy</i> , 2022, 100, 107505.	16.0	25
18	High-performance flexible supercapatteries enabled by binder-free two-dimensional mesoporous ultrathin nickel-ferrite nanosheets. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3436-3447.	5.9	18

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19	Environmental risk assessment of chronic arsenic in drinking water and prevalence of type-2 diabetes mellitus in Pakistan. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 232-237.	2.2	16
20	Enhancing the light absorption in dye-sensitized solar cell by using bilayer composite materials based photo-anode. <i>Optics Communications</i> , 2020, 477, 126353.	2.1	16
21	Nitrogen and Sulfur Co-doped Two-Dimensional Highly Porous Carbon Nanosheets for High-Performance Lithium-Sulfur Batteries. <i>Energy & Fuels</i> , 2022, 36, 2220-2227.	5.1	15
22	Engaging tailored capacity of layered WS ₂ via sulphur bonding coupled with polyetherimide (WS ₂ @NC) nanocomposite for high power and improved lithium-ion storage. <i>Materials Chemistry and Physics</i> , 2020, 246, 122832.	4.0	12
23	Thermoelectric properties, phase analysis, microstructural investigation and lattice parameters c/a ratio of Al ³⁺ and In ³⁺ dual-doped zinc oxide-based ceramics sintered at high temperature under an argon atmosphere. <i>Materials Science in Semiconductor Processing</i> , 2018, 87, 202-206.	4.0	11
24	Enhanced ultraviolet-visible photocatalysis of RGO/equiaxial geometry TiO ₂ composites on degradation of organic dyes in water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 12222-12236.	5.3	10
25	Complex SiC-based structures with high specific strength fabricated by vat photopolymerization and one-step pyrolysis. <i>Additive Manufacturing</i> , 2021, 48, 102430.	3.0	10
26	Adsorption and electrochemical facet of polymer precursor to yield mesoporous carbon ceramic. <i>Separation and Purification Technology</i> , 2021, 275, 119199.	7.9	8
27	Preferred coordination of polymers at MOFs enables improved lithium-ion battery anode performance. <i>Materials Chemistry Frontiers</i> , 2022, 6, 1690-1705.	5.9	6
28	Optical absorption modeling of bilayer photoanode based on Cu@TiO ₂ plasmonic dye sensitized solar cells towards photovoltaic applications. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	4
29	3D printing of crack-free dense polymer-derived ceramic monoliths and lattice skeletons with improved thickness and mechanical performance. <i>Additive Manufacturing</i> , 2022, 57, 102964.	3.0	2