

Mohamed Shuaib Mohamed Saheed

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,165
citations

471061

17
h-index

414034

32
g-index

68
all docs

68
docs citations

68
times ranked

1219
citing authors

#	ARTICLE	IF	CITATIONS
1	Conventional and emerging technologies for removal of antibiotics from wastewater. Journal of Hazardous Materials, 2020, 400, 122961.	6.5	358
2	Core-Shell Vanadium Modified Titania@ In_2S_3 Hybrid Nanorod Arrays for Superior Interface Stability and Photochemical Activity. ACS Applied Materials & Interfaces, 2016, 8, 9037-9049.	4.0	69
3	Gold nanorod embedded novel 3D graphene nanocomposite for selective bio-capture in rapid detection of Mycobacterium tuberculosis. Biosensors and Bioelectronics, 2018, 116, 116-122.	5.3	53
4	Graphene impregnated electrospun nanofiber sensing materials: a comprehensive overview on bridging laboratory set-up to industry. Nano Convergence, 2020, 7, 27.	6.3	52
5	Electrospinning research and products: The road and the way forward. Applied Physics Reviews, 2022, 9, .	5.5	50
6	Physical reduction of graphene oxide for supercapacitive charge storage. Journal of Alloys and Compounds, 2020, 822, 153636.	2.8	36
7	Diagnosing human blood clotting deficiency. International Journal of Biological Macromolecules, 2018, 116, 765-773.	3.6	34
8	Iron nanoflorets on 3D-graphene-nickel: A "Dandelion" nanostructure for selective deoxynivalenol detection. Biosensors and Bioelectronics, 2020, 154, 112088.	5.3	33
9	Boron-Doped Reduced Graphene Oxide with Tunable Bandgap and Enhanced Surface Plasmon Resonance. Molecules, 2020, 25, 3646.	1.7	30
10	Structural and conductivity studies of polyacrylonitrile/methylcellulose blend based electrolytes embedded with lithium iodide. International Journal of Hydrogen Energy, 2020, 45, 19590-19600.	3.8	30
11	Ultrasensitive aptasensor using electrospun MXene/polyvinylidene fluoride nanofiber composite for Ochratoxin A detection. Food Chemistry, 2022, 390, 133105.	4.2	29
12	Breakdown voltage reduction by field emission in multi-walled carbon nanotubes based ionization gas sensor. Applied Physics Letters, 2014, 104, .	1.5	26
13	MXene-Based Aptasensor: Characterization and High-Performance Voltammetry Detection of Deoxynivalenol. BioNanoScience, 2021, 11, 314-323.	1.5	25
14	Hybrid film of single-layer graphene and carbon nanotube as transparent conductive electrode for organic light emitting diode. Synthetic Metals, 2019, 257, 116186.	2.1	22
15	Effect of Nitrogen Doping on the Optical Bandgap and Electrical Conductivity of Nitrogen-Doped Reduced Graphene Oxide. Molecules, 2021, 26, 6424.	1.7	21
16	Nanoscaled Surface Modification of Poly(dimethylsiloxane) Using Carbon Nanotubes for Enhanced Oil and Organic Solvent Absorption. ACS Omega, 2018, 3, 15907-15915.	1.6	20
17	Influence of seeding layer on photoelectrochemical hydrogen production over TiO_2 nanorod decorated with reduced graphene oxide. Diamond and Related Materials, 2019, 94, 194-202.	1.8	20
18	A Review on Graphene-Based Light Emitting Functional Devices. Molecules, 2020, 25, 4217.	1.7	18

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19	Phase transformed iron oxide & iron (oxy) hydroxide composite nanoflorets grown on foam-like graphene as a high performing adsorbent. <i>Chemical Engineering Journal</i> , 2020, 388, 124306.	6.6	16
20	Magnetically recoverable magnetite-reduced graphene oxide as a demulsifier for surfactant stabilized crude oil-in-water emulsion. <i>PLoS ONE</i> , 2020, 15, e0232490.	1.1	15
21	Mutual effect of extrinsic defects and electronic carbon traps of M-TiO ₂ (M=V, Co, Ni) nanorod arrays on photoexcited charge extraction of CdS for superior photoelectrochemical activity of hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14388-14405.	3.8	13
22	Green adsorption&desorption of mixed triclosan, triclocarban, 2-phenylphenol, bisphenol A and 4-tert-octylphenol using MXene encapsulated polypropylene membrane protected micro-solid-phase extraction device in amplifying the HPLC analysis. <i>Microchemical Journal</i> , 2021, 170, 106695.	2.3	13
23	Multiwalled carbon nanotubes and graphene oxide as nano-additives in water-based drilling fluid for enhanced fluid-loss-control & gel strength. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	12
24	Novel growth of carbon nanotubes on nickel nanowires. <i>Diamond and Related Materials</i> , 2016, 65, 59-64.	1.8	11
25	Influence of the electrodeposition potential on the crystallographic structure and effective magnetic easy axis of cobalt nanowires. <i>RSC Advances</i> , 2016, 6, 14266-14272.	1.7	11
26	Precursor and pressure dependent 3D graphene: A study on layer formation and type of carbon material. <i>Diamond and Related Materials</i> , 2017, 79, 93-101.	1.8	11
27	Electrospun Nanofibers for Biosensing Applications. , 2019, , 253-267.		11
28	Structural changes and band gap tunability with incorporation of n-butylammonium iodide in perovskite thin film. <i>Heliyon</i> , 2020, 6, e03364.	1.4	11
29	Optimum design of ionization-based gas sensor using vertically aligned multiwalled carbon nanotubes array. <i>Sensors and Actuators B: Chemical</i> , 2014, 199, 232-238.	4.0	9
30	Effect of Different Catalyst Deposition Technique on Aligned Multiwalled Carbon Nanotubes Grown by Thermal Chemical Vapor Deposition. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-11.	1.5	8
31	Highly flexible and stretchable 3D graphene/MXene composite thin film. <i>Materials Today: Proceedings</i> , 2019, 7, 738-743.	0.9	8
32	Polyaniline (PANI)/reduced graphene oxide (rGO) composite as a counter electrode for dye solar cells.. <i>Journal of Physics: Conference Series</i> , 2018, 1123, 012012.	0.3	7
33	<p>MXene Surface on Multiple Junction Triangles for Determining Osteosarcoma Cancer Biomarker by Dielectrode Microgap Sensor</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 10171-10181.	3.3	7
34	An Electrochemical Approach for Ultrasensitive Detection of Zearalenone in Commodity Using Disposable Screen-Printed Electrode Coated with MXene/Chitosan Film. <i>BioNanoScience</i> , 2022, 12, 814-823.	1.5	7
35	Optimization of the Production of Aligned CNTs Array as the Gas Sensing Element. <i>Materials Science Forum</i> , 2013, 756, 156-163.	0.3	6
36	Gold-Nanohybrid Biosensors for Analyzing Blood Circulating Clinical Biomacromolecules: Current Trend toward Future Remote Digital Monitoring. <i>Critical Reviews in Analytical Chemistry</i> , 2022, 52, 577-592.	1.8	6

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37	Effects of solution concentration on the synthesis of polyvinylidene fluoride (PVDF) electrospun nanofibers. <i>Materials Today: Proceedings</i> , 2023, 80, 2119-2124.	0.9	6
38	Atomic defects of graphene-carbon nanotubes impact on surface wettability. <i>Applied Surface Science</i> , 2021, 567, 150803.	3.1	6
39	Comparison of carbon-based nanomaterials characteristics on H13 tool steel. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2017, 48, 198-204.	0.5	4
40	Development of janus polymer/carbon nanotubes hybrid membrane for oil-water separation. <i>Materials Today: Proceedings</i> , 2019, 7, 655-660.	0.9	4
41	A DFT+U approach: Superior charge transfer characteristics and optoelectronic properties of GQD@TiO ₂ rutile (110) surface for improved hydrogen evolution. <i>Surfaces and Interfaces</i> , 2022, 30, 101952.	1.5	4
42	Novel hydrothermal growth of ZnO/NiO hybrids nanostructures on 3D graphene. <i>Materials Today: Proceedings</i> , 2019, 16, 2408-2413.	0.9	3
43	Highly hydrophobic 3D graphene-carbon nanotubes composite film for oil absorption. <i>Materials Today: Proceedings</i> , 2019, 16, 1772-1777.	0.9	3
44	Facile synthesis of molybdenum multisulfide composite nanorod arrays from single-source precursor for photoelectrochemical hydrogen generation. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 1281-1292.	1.6	3
45	Surface-treatment process related sheet resistance variations in graphene-based thin-film electrodes. <i>Surfaces and Interfaces</i> , 2022, 32, 102161.	1.5	3
46	Antimicrobial Property of Biosynthesized Silver Nanoparticles. <i>Advanced Structured Materials</i> , 2019, , 87-101.	0.3	2
47	Microtechnology and Nanotechnology Advancements Toward Bio-Molecular Targeting. , 2019, , 225-251.		2
48	Hollow three-dimensional graphene reinforced with poly (methyl methacrylate) for selective absorption of oil. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021, 29, 149-155.	1.0	2
49	Thyroglobulin determination on silane-antibody functionalized interdigitated dielectrode surface to diagnose thyroid tumor. <i>Biotechnology and Applied Biochemistry</i> , 2022, 69, 376-382.	1.4	2
50	Foam-like 3D Graphene as a Charge Transport Modifier in Zinc Oxide Electron Transport Material in Perovskite Solar Cells. <i>Photochem</i> , 2021, 1, 523-536.	1.3	2
51	Optoelectronic Enhancement of Perovskite Solar Cells through the Incorporation of Plasmonic Particles. <i>Micromachines</i> , 2022, 13, 999.	1.4	2
52	Stack growth of aligned multiwalled carbon nanotubes using floating catalyst chemical vapor deposition technique. <i>Chemical Physics Letters</i> , 2015, 625, 53-57.	1.2	1
53	Enhanced photoelectrochemical activity by nanostructured V ₂ O ₅ /TiO ₂ bilayer. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
54	Effect of electrode gap on the sensing properties of multiwalled carbon nanotubes based gas sensor. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1

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55	DC magnetron sputtered TiO ₂ thin film as efficient hole blocking layer for perovskite solar cell. , 2017, , .		1
56	Template-assisted growth of highly oriented 3D graphene pH sensor towards new avenues for biosensor. , 2017, , .		1
57	Formation of quasi-2D layered crystallite using long chain halide to form hybrid perovskite film. , 2018, , .		1
58	Effect on the Formation of Magnetite Reduced Graphene Oxide with Controlled Stirring Duration. MATEC Web of Conferences, 2018, 202, 01003.	0.1	1
59	An Overview of Unique Metal Oxide Nanostructures for Biosensor Applications. Advanced Structured Materials, 2019, , 51-69.	0.3	1
60	First Principle DFT + U Calculations for the Optoelectronic Properties of Cu and C-Cu co-doped TiO ₂ Anatase Model. Asian Journal of Chemistry, 2022, 34, 1863-1868.	0.1	1
61	Preparation of the spacer for narrow electrode gap configuration in ionization-based gas sensor. , 2012, , .		0
62	Effect of reaction time on the characteristics of catalytically grown boron nitride nanotubes. , 2014, , .		0
63	Synthesis parameters and transfer techniques of mono-few layer graphene for transparent conductive electrode. , 2016, , .		0
64	Highly oriented graphene growth and characterization. AIP Conference Proceedings, 2016, , .	0.3	0
65	Investigating the performance of nitrogen-doped graphene photoanode in dye-sensitized solar cells. AIP Conference Proceedings, 2016, , .	0.3	0
66	Facile Formation of Interconnected Multi-Walled Carbon Nanotube-Graphene Nanocomposite for Nanoelectronics Applications. Key Engineering Materials, 0, 744, 433-437.	0.4	0
67	Effects of solvent ratio on the encapsulation of carbon nanotubes/Arthrospira platensis composite within electrospun poly(methyl methacrylate) nanofiber. Journal of Physics: Conference Series, 2018, 1123, 012013.	0.3	0
68	Detection of Ochratoxin A using Cellulose Acetate Nanofibers Modified with Silver Nanoparticle. , 2021, , .		0