

Shoyebmohamad F Shaikh

List of Publications by Year in descending order

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2,239
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218592
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100
docs citations

100
times ranked

2212
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic studies for DRM over high-performance Ni ^W /Al ₂ O ₃ -MgO catalyst. International Journal of Hydrogen Energy, 2022, 47, 42150-42159.	3.8	24
2	One-pot hydrothermal preparation of hierarchical manganese oxide nanorods for high-performance symmetric supercapacitors. Journal of Energy Chemistry, 2022, 65, 116-126.	7.1	101
3	Highly sensitive ultraviolet photodetectors fabricated from rare earth metal ions doped NiO thin films via nebulizer spray pyrolysis method. Sensors and Actuators A: Physical, 2022, 333, 113242.	2.0	29
4	Self-assembled γ -Fe ₂ O ₃ -GO nanocomposites: Studies on physical, magnetic and ammonia sensing properties. Materials Chemistry and Physics, 2022, 278, 125617.	2.0	13
5	Synthesis, crystal structure, quantum calculation and Hirshfeld surface analysis of 4-bromoanilinium oxalate hemihydrate single crystal. Journal of Molecular Structure, 2022, 1252, 132087.	1.8	8
6	Highly efficient tin fluoride nanocomposite with conductive carbon as a high performance anode for Li-ion batteries. Journal of Alloys and Compounds, 2022, 900, 163447.	2.8	14
7	Solvent modulated self-assembled VS ₂ layered microstructure for electrocatalytic water and urea decomposition. International Journal of Energy Research, 2022, 46, 8413-8423.	2.2	23
8	Synthesis, Characterization and In Vitro Cytotoxic Effects of Cu:Co ₃ O ₄ Nanoparticles Via Microwave Combustion Method. Journal of Cluster Science, 2022, 33, 1821-1830.	1.7	11
9	Ammonia gas sensing and magnetic permeability of enhanced surface area and high porosity lanthanum substituted Co ^{Zn} nano ferrites. Ceramics International, 2022, 48, 15043-15055.	2.3	21
10	Grain and grain boundaries influenced magnetic and dielectric properties of lanthanum-doped copper cadmium ferrites. Journal of Materials Science: Materials in Electronics, 2022, 33, 7636-7647.	1.1	7
11	The Structure, Magnetic, and Gas Sensing Characteristics of W-Substituted Co-Ferrite Nanoparticles. Crystals, 2022, 12, 393.	1.0	10
12	Human urine-derived naturally heteroatom doped highly porous carbonaceous material for gas sensing and supercapacitor applications. Ceramics International, 2022, 48, 28942-28950.	2.3	4
13	Multifunctional Cu ₂ SnS ₃ Nanoparticles with Enhanced Photocatalytic Dye Degradation and Antibacterial Activity. Materials, 2022, 15, 3126.	1.3	13
14	Effect of Pd-Sensitization on Poisonous Chlorine Gas Detection Ability of TiO ₂ : Green Synthesis and Low-Temperature Operation. Sensors, 2022, 22, 4200.	2.1	3
15	Tuning the structural, optical and magnetic properties of NiCuZn (Ni _{0.4} Cu _{0.3} Zn _{0.3} Fe ₂ O ₄) spinel ferrites by Nb ₂ O ₅ additive. Ceramics International, 2022, 48, 27039-27050.	2.3	19
16	Tungsten carbide@graphene nanoflakes: Preparation, characterization and electrochemical activity for capacitive deionization technology. Journal of Colloid and Interface Science, 2021, 581, 112-125.	5.0	16
17	Electrodeposited more-hydrophilic nano-nest polyaniline electrodes for supercapacitor application. Journal of Physics and Chemistry of Solids, 2021, 149, 109774.	1.9	19
18	Enhanced electro-adsorption desalination performance of graphene by TiC. Separation and Purification Technology, 2021, 254, 117602.	3.9	15

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19	Fabrication of highly porous N-doped mesoporous carbon using waste polyethylene terephthalate bottle-based MOF-5 for high performance supercapacitor. Journal of Energy Storage, 2021, 33, 102125.	3.9	64
20	Efficient removal of Pb(II) from water using silica gel functionalized with thiosalicylic acid: Response surface methodology for optimization. Journal of King Saud University - Science, 2021, 33, 101232.	1.6	20
21	Investigation of electrochemical performance and stability of electrodeposited Mn ₃ O ₄ thin films in different aqueous electrolytes for its application in flexible supercapacitors. Journal of Energy Storage, 2021, 33, 102076.	3.9	15
22	Synthesis of 2-mercaptopropionic acid/hydrous zirconium oxide composite and its application for removal of Pb(II) from water samples: Central composite design for optimization. Journal of King Saud University - Science, 2021, 33, 101280.	1.6	25
23	Tungsten oxides: green and sustainable heterogeneous nanocatalysts for the synthesis of bioactive heterocyclic compounds. Dalton Transactions, 2021, 50, 2032-2041.	1.6	4
24	One-pot preparation of CdO/ZnO core/shell nanofibers: An efficient photocatalyst. AEJ - Alexandria Engineering Journal, 2021, 60, 1819-1826.	3.4	13
25	High Stability and Long Cycle Life of Rechargeable Sodium-Ion Battery Using Manganese Oxide Cathode: A Combined Density Functional Theory (DFT) and Experimental Study. ACS Applied Materials & Interfaces, 2021, 13, 11433-11441.	4.0	67
26	3D Cationic Polymeric Network Nanotrap for Efficient Collection of Perrhenate Anion from Wastewater. Small, 2021, 17, e2007994.	5.2	42
27	Fabrication of electrospun nickel sulphide nanoparticles onto carbon nanofibers for efficient urea electro-oxidation in alkaline medium. International Journal of Hydrogen Energy, 2021, 46, 12944-12960.	3.8	12
28	Coconut-Water-Mediated Carbonaceous Electrode: A Promising Eco-Friendly Material for Bifunctional Water Splitting Application. ACS Omega, 2021, 6, 12623-12630.	1.6	7
29	Porous metal-graphene oxide nanocomposite sensors with high ammonia detectability. Journal of Colloid and Interface Science, 2021, 589, 401-410.	5.0	34
30	Cationic Polymeric Networks: 3D Cationic Polymeric Network Nanotrap for Efficient Collection of Perrhenate Anion from Wastewater (Small 20/2021). Small, 2021, 17, 2170094.	5.2	0
31	Synthesis of composite material of cobalt oxide (Co ₃ O ₄) with hydroxide functionalized multi-walled carbon nanotubes (MWCNTs) for electrochemical determination of uric acid. Journal of Materials Science: Materials in Electronics, 2021, 32, 20047-20057.	1.1	0
32	A simple and efficient visible light photodetector based on Co ₃ O ₄ /ZnO composite. Optical and Quantum Electronics, 2021, 53, 1.	1.5	8
33	Design and fabrication of green and sustainable vapochromic cellulose fibers embedded with natural anthocyanin for detection of toxic ammonia. Talanta, 2021, 230, 122292.	2.9	22
34	Structure-sensitive magnetic properties of nanocrystalline Co ²⁺ -substituted Ni ²⁺ -Zn ferrite aluminates. Ceramics International, 2021, 47, 26492-26500.	2.3	15
35	Utilization of hybrid silicone rubber/Exolit AP 422 composite for the fabrication of mechanically flexible, flame-retardant and superhydrophobic polyurethane foams. Materials Chemistry and Physics, 2021, 273, 125133.	2.0	10
36	Dielectric relaxation, electrical conductivity measurements, electric modulus and impedance analysis of WO ₃ nanostructures. Journal of Alloys and Compounds, 2021, 888, 161490.	2.8	21

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37	Hydrangea-type bismuth molybdate as a room-temperature smoke and humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130643.	4.0	11
38	Comparative Study of Eosin-Y and Rose Bengal Sensitized SnO ₂ -ZnO Composite Electrode for Dye-Sensitized Solar Cell. <i>ES Energy & Environments</i> , 2021, , .	0.5	1
39	Improved UV photosensing properties of high crystalline nickel oxide thin films: Role of yttrium doping. <i>Optik</i> , 2021, 248, 168105.	1.4	14
40	Environmentally Benign Organic Dye Conversion under UV Light through TiO ₂ -ZnO Nanocomposite. <i>Metals</i> , 2021, 11, 1787.	1.0	4
41	Hybrid ZnO Flowers-Rods Nanostructure for Improved Photodetection Compared to Standalone Flowers and Rods. <i>Coatings</i> , 2021, 11, 1464.	1.2	4
42	Utilization of waste polyethylene terephthalate bottles to develop metal-organic frameworks for energy applications: A clean and feasible approach. <i>Journal of Cleaner Production</i> , 2020, 248, 119251.	4.6	73
43	Synthesis of NiOx@NPC composite for high-performance supercapacitor via waste PET plastic-derived Ni-MOF. <i>Composites Part B: Engineering</i> , 2020, 183, 107655.	5.9	104
44	Tailoring ammonia gas sensing performance of La ³⁺ -doped copper cadmium ferrite nanostructures. <i>Solid State Sciences</i> , 2020, 100, 106089.	1.5	28
45	Pristine and palladium-doped perovskite bismuth ferrites and their nitrogen dioxide gas sensor studies. <i>Journal of King Saud University - Science</i> , 2020, 32, 3125-3130.	1.6	18
46	Electrochemically grown MnO ₂ nanowires for supercapacitor and electrocatalysis applications. <i>New Journal of Chemistry</i> , 2020, 44, 17864-17870.	1.4	33
47	High-rate sodium insertion/extraction into silicon oxycarbide-reduced graphene oxide. <i>New Journal of Chemistry</i> , 2020, 44, 14035-14040.	1.4	12
48	Mesoporous Carbon of Carbonized Human Urine Waste: A Valuable Heterogeneous Catalyst for Chromene and Xanthene Derivative Synthesis. <i>Catalysts</i> , 2020, 10, 1369.	1.6	10
49	Co ²⁺ Substituted Spinel MgCuZn Ferrimagnetic Oxide: A Highly Versatile Electromagnetic Material via a Facile Molten Salt Route. <i>Nanomaterials</i> , 2020, 10, 2333.	1.9	4
50	Room-temperature synthesis and CO ₂ -gas sensitivity of bismuth oxide nanosensors. <i>RSC Advances</i> , 2020, 10, 17217-17227.	1.7	26
51	Self-grown one-dimensional nickel sulfo-selenide nanostructured electrocatalysts for water splitting reactions. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15904-15914.	3.8	25
52	Structural modifications in Co ²⁺ /Zn nanoferrites by Gd substitution triggering to dielectric and gas sensing applications. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156178.	2.8	30
53	Types, Synthesis methods and applications of ferrites. , 2020, , 51-82.		39
54	Facile synthesis of Bi ₂ O ₃ @MnO ₂ nanocomposite material: A promising electrode for high performance supercapacitors. <i>Solid State Sciences</i> , 2020, 102, 106158.	1.5	29

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55	Hydrothermal synthesis of novel nickel oxide@nitrogenous mesoporous carbon nanocomposite using costless smoked cigarette filter for high performance supercapacitor. Materials Letters, 2020, 266, 127492.	1.3	53
56	Facile one-step hydrothermal synthesis and room-temperature NO ₂ sensing application of γ -Fe ₂ O ₃ sensor. Materials Chemistry and Physics, 2020, 246, 122799.	2.0	21
57	The role of La ³⁺ substitution in modification of the magnetic and dielectric properties of the nanocrystalline Co-Zn ferrites. Journal of Magnetism and Magnetic Materials, 2020, 502, 166490.	1.0	45
58	Continuous hydrothermal flow-inspired synthesis and ultra-fast ammonia and humidity room-temperature sensor activities of WO ₃ nanobricks. Materials Research Express, 2020, 7, 015076.	0.8	20
59	Phase controlled synthesis of bifunctional TiO ₂ nanocrystallites via γ -mannitol for dye-sensitized solar cells and heterogeneous catalysis. RSC Advances, 2020, 10, 14826-14836.	1.7	8
60	Chemical Bath Deposition of CuInS ₂ Thin Films and Synthesis of CuInS ₂ Nanocrystals: A Review. Engineered Science, 2020, , .	1.2	5
61	Eosin-Y Sensitized Bi-layered ZnO Nanoflower-CeO ₂ Photoanode for Dye-Sensitized Solar Cells Application. ES Materials & Manufacturing, 2020, , .	1.1	9
62	Intrinsic Control in Defects Density for Improved ZnO Nanorod-Based UV Sensor Performance. Nanomaterials, 2020, 10, 142.	1.9	11
63	Thin Film Materials and Devices. ES Materials & Manufacturing, 2020, , .	1.1	1
64	Microwave-assisted hierarchical bismuth oxide worm-like nanostructured films as room-temperature hydrogen gas sensors. Journal of Alloys and Compounds, 2019, 802, 244-251.	2.8	32
65	Ultra-rapid chemical synthesis of mesoporous Bi ₂ O ₃ micro-sponge-balls for supercapattery applications. Electrochimica Acta, 2019, 296, 308-316.	2.6	64
66	γ -irradiation induced zinc ferrites and their enhanced room-temperature ammonia gas sensing properties. Materials Research Express, 2018, 5, 035702.	0.8	15
67	High current density cation-exchanged SnO ₂ @CdSe/ZnSe and SnO ₂ @CdSe/SnSe quantum-dot photoelectrochemical cells. New Journal of Chemistry, 2018, 42, 9028-9036.	1.4	5
68	Performance enhancement of mesoporous TiO ₂ -based perovskite solar cells by ZnS ultrathin-interfacial modification layer. Journal of Alloys and Compounds, 2018, 738, 405-414.	2.8	36
69	Sprayed tungsten-doped and undoped bismuth ferrite nanostructured films for reducing and oxidizing gas sensor applications. Sensors and Actuators A: Physical, 2018, 271, 37-43.	2.0	28
70	Study of gamma ray energy absorption and exposure buildup factors for ferrites by geometric progression fitting method. Radiation Effects and Defects in Solids, 2018, 173, 329-338.	0.4	13
71	Promoted room-temperature LPG gas sensor activities of graphene oxide@Fe ₂ O ₃ composite sensor over individuals. Materials Research Express, 2018, 5, 125001.	0.8	15
72	Metal-free heterogeneous and mesoporous biogenic graphene-oxide nanoparticle-catalyzed synthesis of bioactive benzylpyrazolyl coumarin derivatives. RSC Advances, 2018, 8, 17373-17379.	1.7	26

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73	Low-Temperature Ionic Layer Adsorption and Reaction Grown Anatase TiO ₂ Nanocrystalline Films for Efficient Perovskite Solar Cell and Gas Sensor Applications. Scientific Reports, 2018, 8, 11016.	1.6	36
74	Enhancement in room-temperature ammonia sensor activity of size-reduced cobalt ferrite nanoparticles on γ -irradiation. Materials Research Express, 2018, 5, 065035.	0.8	18
75	Room-temperature successive ion transfer chemical synthesis and the efficient acetone gas sensor and electrochemical energy storage applications of Bi ₂ O ₃ nanostructures. New Journal of Chemistry, 2018, 42, 12530-12538.	1.4	37
76	Cation distribution, magnetic properties and cubic-perovskite phase transition in bismuth-doped nickel ferrite. Solid State Sciences, 2017, 74, 88-94.	1.5	28
77	Natural Carbonized Sugar as a Low-Temperature Ammonia Sensor Material: Experimental, Theoretical, and Computational Studies. ACS Applied Materials & Interfaces, 2017, 9, 43051-43060.	4.0	32
78	Hexamethylenetetramine-mediated TiO ₂ films: Facile chemical synthesis strategy and their use in nitrogen dioxide detection. Materials Letters, 2016, 173, 9-12.	1.3	13
79	La ₂ O ₃ interface modification of mesoporous TiO ₂ nanostructures enabling highly efficient perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 15478-15485.	5.2	53
80	D-sorbitol-induced phase control of TiO ₂ nanoparticles and its application for dye-sensitized solar cells. Scientific Reports, 2016, 6, 20103.	1.6	93
81	High-Performance Platinum-Free Dye-Sensitized Solar Cells with Molybdenum Disulfide Films as Counter Electrodes. ChemPhysChem, 2015, 16, 3959-3965.	1.0	27
82	La ₂ O ₃ -encapsulated SnO ₂ nanocrystallite-based photoanodes for enhanced DSSCs performance. Dalton Transactions, 2015, 44, 3075-3081.	1.6	12
83	Calcium carbonate electronic-insulating layers improve the charge collection efficiency of tin oxide photoelectrodes in dye-sensitized solar cells. Electrochimica Acta, 2015, 167, 379-387.	2.6	7
84	Synthesis and electrochemical supercapacitive performance of nickel-manganese ferrite composite films. Journal of Analytical and Applied Pyrolysis, 2015, 116, 177-182.	2.6	38
85	Sputtering and sulfurization-combined synthesis of a transparent WS ₂ counter electrode and its application to dye-sensitized solar cells. RSC Advances, 2015, 5, 103567-103572.	1.7	32
86	Spraying distance and titanium chloride surface treatment effects on DSSC performance of electrosprayed SnO ₂ photoanodes. RSC Advances, 2014, 4, 35919.	1.7	15
87	Low-temperature solution-processed Zn-doped SnO ₂ photoanodes: enhancements in charge collection efficiency and mobility. RSC Advances, 2014, 4, 20527-20530.	1.7	13
88	Mass scale sugar-mediated green synthesis and DSSCs application of tin oxide nanostructured photoanode: Effect of zinc sulphide layering on charge collection efficiency. Electrochimica Acta, 2014, 147, 408-417.	2.6	13
89	Electrochemical Supercapacitive Properties of Sprayed Nickel Ferrite Nanostructured Thin Film Electrode. Journal of Nanoengineering and Nanomanufacturing, 2014, 4, 93-97.	0.3	10
90	Electrochemical supercapacitors of electrodeposited PANI/H-RuO ₂ hybrid nanostructure. Current Applied Physics, 2013, 13, 758-761.	1.1	22

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91	Bismuth oxide nanoplates-based efficient DSSCs: Influence of ZnO surface passivation layer. <i>Electrochimica Acta</i> , 2013, 111, 593-600.	2.6	42
92	Low temperature chemically synthesized rutile TiO ₂ photoanodes with high electron lifetime for organic dye-sensitized solar cells. <i>Chemical Communications</i> , 2013, 49, 2921.	2.2	37
93	Template-free electrochemical synthesis and electrochemical supercapacitors application of polyaniline nanobuds. <i>Journal of Applied Polymer Science</i> , 2013, 128, 3660-3664.	1.3	15
94	Monoclinic WO ₃ nanorods-rutile TiO ₂ nanoparticles core-shell interface for efficient DSSCs. <i>Dalton Transactions</i> , 2013, 42, 10085.	1.6	23
95	Wet-chemical polyaniline nanorice mass-production for electrochemical supercapacitors. <i>Synthetic Metals</i> , 2012, 162, 1303-1307.	2.1	16
96	Nanostructures in Dye-Sensitized and Perovskite Solar Cells. , 0, , .		3