

Shoyebmohamad F Shaikh

List of Publications by Year in descending order

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96
papers

2,239
citations

218592

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h-index

302012

39
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100
all docs

100
docs citations

100
times ranked

2212
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of NiOx@NPC composite for high-performance supercapacitor via waste PET plastic-derived Ni-MOF. Composites Part B: Engineering, 2020, 183, 107655.	5.9	104
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	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
4	Utilization of waste polyethylene terephthalate bottles to develop metal-organic frameworks for energy applications: A clean and feasible approach. Journal of Cleaner Production, 2020, 248, 119251.	4.6	73
5	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
6	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
7	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
8	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
9	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
10	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
11	Bismuth oxide nanoplates-based efficient DSSCs: Influence of ZnO surface passivation layer. Electrochimica Acta, 2013, 111, 593-600.	2.6	42
12	3D Cationic Polymeric Network Nanotrap for Efficient Collection of Perrhenate Anion from Wastewater. Small, 2021, 17, e2007994.	5.2	42
13	Types, Synthesis methods and applications of ferrites. , 2020, , 51-82.		39
14	Synthesis and electrochemical supercapacitive performance of nickel–manganese ferrite composite films. Journal of Analytical and Applied Pyrolysis, 2015, 116, 177-182.	2.6	38
15	Low temperature chemically synthesized rutile TiO ₂ photoanodes with high electron lifetime for organic dye-sensitized solar cells. Chemical Communications, 2013, 49, 2921.	2.2	37
16	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
17	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
18	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

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19	Porous metal-graphene oxide nanocomposite sensors with high ammonia detectability. <i>Journal of Colloid and Interface Science</i> , 2021, 589, 401-410.	5.0	34
20	Electrochemically grown MnO ₂ nanowires for supercapacitor and electrocatalysis applications. <i>New Journal of Chemistry</i> , 2020, 44, 17864-17870.	1.4	33
21	Sputtering and sulfurization-combined synthesis of a transparent WS ₂ counter electrode and its application to dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 103567-103572.	1.7	32
22	Natural Carbonized Sugar as a Low-Temperature Ammonia Sensor Material: Experimental, Theoretical, and Computational Studies. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43051-43060.	4.0	32
23	Microwave-assisted hierarchical bismuth oxide worm-like nanostructured films as room-temperature hydrogen gas sensors. <i>Journal of Alloys and Compounds</i> , 2019, 802, 244-251.	2.8	32
24	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
25	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
26	Highly sensitive ultraviolet photodetectors fabricated from rare earth metal ions doped NiO thin films via nebulizer spray pyrolysis method. <i>Sensors and Actuators A: Physical</i> , 2022, 333, 113242.	2.0	29
27	Cation distribution, magnetic properties and cubic-perovskite phase transition in bismuth-doped nickel ferrite. <i>Solid State Sciences</i> , 2017, 74, 88-94.	1.5	28
28	Sprayed tungsten-doped and undoped bismuth ferrite nanostructured films for reducing and oxidizing gas sensor applications. <i>Sensors and Actuators A: Physical</i> , 2018, 271, 37-43.	2.0	28
29	Tailoring ammonia gas sensing performance of La ³⁺ -doped copper cadmium ferrite nanostructures. <i>Solid State Sciences</i> , 2020, 100, 106089.	1.5	28
30	High-Performance Platinum-Free Dye-Sensitized Solar Cells with Molybdenum Disulfide Films as Counter Electrodes. <i>ChemPhysChem</i> , 2015, 16, 3959-3965.	1.0	27
31	Metal-free heterogeneous and mesoporous biogenic graphene-oxide nanoparticle-catalyzed synthesis of bioactive benzylpyrazolyl coumarin derivatives. <i>RSC Advances</i> , 2018, 8, 17373-17379.	1.7	26
32	Room-temperature synthesis and CO ₂ -gas sensitivity of bismuth oxide nanosensors. <i>RSC Advances</i> , 2020, 10, 17217-17227.	1.7	26
33	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
34	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. <i>Journal of King Saud University - Science</i> , 2021, 33, 101280.	1.6	25
35	Kinetic studies for DRM over high-performance Ni ²⁺ /W/Al ₂ O ₃ /MgO catalyst. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 42150-42159.	3.8	24
36	Monoclinic WO ₃ nanorods/rutile TiO ₂ nanoparticles core-shell interface for efficient DSSCs. <i>Dalton Transactions</i> , 2013, 42, 10085.	1.6	23

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37	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
38	Electrochemical supercapacitors of electrodeposited PANI/H-RuO ₂ hybrid nanostructure. Current Applied Physics, 2013, 13, 758-761.	1.1	22
39	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
40	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
41	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
42	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
43	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
44	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
45	Electrodeposited more-hydrophilic nano-nest polyaniline electrodes for supercapacitor application. Journal of Physics and Chemistry of Solids, 2021, 149, 109774.	1.9	19
46	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
47	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
48	Pristine and palladium-doped perovskite bismuth ferrites and their nitrogen dioxide gas sensor studies. Journal of King Saud University - Science, 2020, 32, 3125-3130.	1.6	18
49	Wet-chemical polyaniline nanorice mass-production for electrochemical supercapacitors. Synthetic Metals, 2012, 162, 1303-1307.	2.1	16
50	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
51	Template-free electrochemical synthesis and electrochemical supercapacitors application of polyaniline nanobuds. Journal of Applied Polymer Science, 2013, 128, 3660-3664.	1.3	15
52	Spraying distance and titanium chloride surface treatment effects on DSSC performance of electrospayed SnO ₂ photoanodes. RSC Advances, 2014, 4, 35919.	1.7	15
53	γ -irradiation induced zinc ferrites and their enhanced room-temperature ammonia gas sensing properties. Materials Research Express, 2018, 5, 035702.	0.8	15
54	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

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55	Enhanced electro-adsorption desalination performance of graphene by TiC. Separation and Purification Technology, 2021, 254, 117602.	3.9	15
56	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
57	Structure-sensitive magnetic properties of nanocrystalline Co ²⁺ -substituted Ni ²⁺ -Zn ferrite aluminates. Ceramics International, 2021, 47, 26492-26500.	2.3	15
58	Improved UV photosensing properties of high crystalline nickel oxide thin films: Role of yttrium doping. Optik, 2021, 248, 168105.	1.4	14
59	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
60	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
61	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
62	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
63	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
64	One-pot preparation of CdO/ZnO core/shell nanofibers: An efficient photocatalyst. AEJ - Alexandria Engineering Journal, 2021, 60, 1819-1826.	3.4	13
65	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
66	Multifunctional Cu ₂ SnS ₃ Nanoparticles with Enhanced Photocatalytic Dye Degradation and Antibacterial Activity. Materials, 2022, 15, 3126.	1.3	13
67	La ₂ O ₃ -encapsulated SnO ₂ nanocrystallite-based photoanodes for enhanced DSSCs performance. Dalton Transactions, 2015, 44, 3075-3081.	1.6	12
68	High-rate sodium insertion/extraction into silicon oxycarbide-reduced graphene oxide. New Journal of Chemistry, 2020, 44, 14035-14040.	1.4	12
69	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
70	Hydrangea-type bismuth molybdate as a room-temperature smoke and humidity sensor. Sensors and Actuators B: Chemical, 2021, 348, 130643.	4.0	11
71	Intrinsic Control in Defects Density for Improved ZnO Nanorod-Based UV Sensor Performance. Nanomaterials, 2020, 10, 142.	1.9	11
72	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

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73	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
74	Utilization of hybrid silicone rubber/Exolit AP 422 composite for the fabrication of mechanically flexible, flame-retardant and superhydrophobic polyurethane foams. <i>Materials Chemistry and Physics</i> , 2021, 273, 125133.	2.0	10
75	Electrochemical Supercapacitive Properties of Sprayed Nickel Ferrite Nanostructured Thin Film Electrode. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2014, 4, 93-97.	0.3	10
76	The Structure, Magnetic, and Gas Sensing Characteristics of W-Substituted Co-Ferrite Nanoparticles. <i>Crystals</i> , 2022, 12, 393.	1.0	10
77	Eosin-Y Sensitized Bi-layered ZnO Nanoflower-CeO ₂ Photoanode for Dye-Sensitized Solar Cells Application. <i>ES Materials & Manufacturing</i> , 2020, , .	1.1	9
78	Phase controlled synthesis of bifunctional TiO ₂ nanocrystallites via d-mannitol for dye-sensitized solar cells and heterogeneous catalysis. <i>RSC Advances</i> , 2020, 10, 14826-14836.	1.7	8
79	A simple and efficient visible light photodetector based on Co ₃ O ₄ /ZnO composite. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	8
80	Synthesis, crystal structure, quantum calculation and Hirshfeld surface analysis of 4-bromoanilinium oxalate hemihydrate single crystal. <i>Journal of Molecular Structure</i> , 2022, 1252, 132087.	1.8	8
81	Calcium carbonate electronic-insulating layers improve the charge collection efficiency of tin oxide photoelectrodes in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 167, 379-387.	2.6	7
82	Coconut-Water-Mediated Carbonaceous Electrode: A Promising Eco-Friendly Material for Bifunctional Water Splitting Application. <i>ACS Omega</i> , 2021, 6, 12623-12630.	1.6	7
83	Grain and grain boundaries influenced magnetic and dielectric properties of lanthanum-doped copper cadmium ferrites. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 7636-7647.	1.1	7
84	High current density cation-exchanged SnO ₂ @CdSe/ZnSe and SnO ₂ @CdSe/SnSe quantum-dot photoelectrochemical cells. <i>New Journal of Chemistry</i> , 2018, 42, 9028-9036.	1.4	5
85	Chemical Bath Deposition of CuInS ₂ Thin Films and Synthesis of CuInS ₂ Nanocrystals: A Review. <i>Engineered Science</i> , 2020, , .	1.2	5
86	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
87	Tungsten oxides: green and sustainable heterogeneous nanocatalysts for the synthesis of bioactive heterocyclic compounds. <i>Dalton Transactions</i> , 2021, 50, 2032-2041.	1.6	4
88	Environmentally Benign Organic Dye Conversion under UV Light through TiO ₂ -ZnO Nanocomposite. <i>Metals</i> , 2021, 11, 1787.	1.0	4
89	Hybrid ZnO Flowers-Rods Nanostructure for Improved Photodetection Compared to Standalone Flowers and Rods. <i>Coatings</i> , 2021, 11, 1464.	1.2	4
90	Human urine-derived naturally heteroatom doped highly porous carbonaceous material for gas sensing and supercapacitor applications. <i>Ceramics International</i> , 2022, 48, 28942-28950.	2.3	4

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91	Nanostructures in Dye-Sensitized and Perovskite Solar Cells. , 0, , .		3
92	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
93	Comparative Study of Eosin-Y and Rose Bengal Sensitized SnO ₂ -ZnO Composite Electrode for Dye-Sensitized Solar Cell. ES Energy & Environments, 2021, , .	0.5	1
94	Thin Film Materials and Devices. ES Materials & Manufacturing, 2020, , .	1.1	1
95	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
96	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