

Shahid Hussain

List of Publications by Year in descending order

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199
papers

6,487
citations

61687

45
h-index

107981

68
g-index

200
all docs

200
docs citations

200
times ranked

6207
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Catalysis and Separator Functionalization on High-Energy Lithium-Sulfur Batteries: A Complete Review. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	28
2	ZIF-X (8, 67) based nanostructures for gas-sensing applications. <i>Reviews in Chemical Engineering</i> , 2023, 39, 911-939.	2.3	6
3	Quality assessment of the noncarbonated-bottled drinking water: comparison of their treatment techniques. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 8195-8206.	1.8	24
4	Efficient detection of hazardous H ₂ S gas using multifaceted Co ₃ O ₄ /ZnO hollow nanostructures. <i>Chemosphere</i> , 2022, 287, 132178.	4.2	43
5	Enhanced NO ₂ gas-sensing performance by core-shell SnO ₂ /ZIF-8 nanospheres. <i>Chemosphere</i> , 2022, 291, 132842.	4.2	57
6	Vanadium disulfide nanosheets loaded on carbon cloth as electrode for flexible quasi-solid-state asymmetric supercapacitors: energy storage mechanism and electrochemical performance. <i>Journal of Materials Chemistry C</i> , 2022, 10, 640-648.	2.7	25
7	NO ₂ gas sensing responses of In ₂ O ₃ nanoparticles decorated on GO nanosheets. <i>Ceramics International</i> , 2022, 48, 12291-12298.	2.3	20
8	Surface engineering of MOF-derived FeCo/NC core-shell nanostructures to enhance alkaline water-splitting. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 5036-5043.	3.8	31
9	Vanadium pentoxide nanosheets with rich oxygen vacancies as a high-performance electrode for supercapacitors. <i>Ionics</i> , 2022, 28, 2931-2942.	1.2	7
10	Versatile Ag ₂ O and ZnO nanomaterials fabricated via annealed Ag-PMOS and ZnO-PMOS: An efficient photocatalysis tool for azo dyes. <i>Journal of Molecular Liquids</i> , 2022, 356, 119036.	2.3	39
11	Enhanced room-temperature NO ₂ sensing performance of SnO ₂ /Ti ₃ C ₂ composite with double heterojunctions by controlling co-exposed {221} and {110} facets of SnO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2022, 365, 131919.	4.0	19
12	Template-derived net-like SnO ₂ nanoarrays for robust H ₂ S sensing with broad-range linear response. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 131991.	4.0	11
13	Study on Innovative Flexible Design Method for Thin Film Narrow Band-Pass Filters. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2022, 17, 112-120.	0.1	3
14	Efficient electrochemical and photocatalytic performances of Cu-doped Ba _x Al _x O ₃ nanocomposites. <i>Surfaces and Interfaces</i> , 2022, 32, 102116.	1.5	7
15	A Multifunctional Gradient Solid Electrolyte Remarkably Improving Interface Compatibility and Ion Transport in Solid-State Lithium Battery. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30786-30795.	4.0	30
16	Polyhedral Co ₃ O ₄ @ZnO nanostructures as proficient photocatalysts for vitiation of organic dyes from waste water. <i>Journal of Molecular Liquids</i> , 2022, 362, 119765.	2.3	40
17	Efficient removal of norfloxacin by MOF@GO composite: isothermal, kinetic, statistical, and mechanistic study. <i>Toxin Reviews</i> , 2021, 40, 915-927.	1.5	31
18	Charge storage in binder-free 2D-hexagonal CoMoO ₄ nanosheets as a redox active material for pseudocapacitors. <i>Ceramics International</i> , 2021, 47, 8659-8667.	2.3	99

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19	Critical green routing synthesis of silver NPs using jasmine flower extract for biological activities and photocatalytical degradation of methylene blue. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104877.	3.3	145
20	Facet controlled polyhedral ZIF-8 MOF nanostructures for excellent NO ₂ gas-sensing applications. <i>Materials Research Bulletin</i> , 2021, 136, 111133.	2.7	85
21	Enhanced areal specific capacity and energy density of solid-state lithium battery by using porous aluminum foam. <i>Journal of Energy Storage</i> , 2021, 33, 102167.	3.9	10
22	Experimental and theoretical study of highly porous lignocellulose assisted metal oxide photoelectrodes for dye-sensitized solar cells. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102937.	2.3	31
23	Use of hydrogen-bonded supramolecular eutectic solvents for eco-friendly extraction of bioactive molecules from <i>Cymbopogon citratus</i> using Boxâ€ Behnken design. <i>Journal of Food Measurement and Characterization</i> , 2021, 15, 1487-1498.	1.6	11
24	Recent advancement and development in nanoneurology. , 2021, , 173-191.		0
25	A Critical Review on the Synthesis of Natural Sodium Alginate Based Composite Materials: An Innovative Biological Polymer for Biomedical Delivery Applications. <i>Processes</i> , 2021, 9, 137.	1.3	67
26	Kinetic and Thermal Study of Ethylene and Propylene Homo Polymerization Catalyzed by ansa-Zirconocene Activated with Alkylaluminum/Borate: Effects of Alkylaluminum on Polymerization Kinetics and Polymer Structure. <i>Polymers</i> , 2021, 13, 268.	2.0	23
27	Oxygen vacancies induced variations in structural, optical and dielectric properties of SnO ₂ /graphite nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 1402-1412.	1.1	11
28	Engineering the performance of negative electrode for supercapacitor by polyaniline coated Fe ₃ O ₄ nanoparticles enables high stability up to 25,000 cycles. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 9976-9987.	3.8	24
29	Steady-State Conduction Current Performance for Multilayer Polyimide/SiO ₂ Films. <i>Polymers</i> , 2021, 13, 640.	2.0	19
30	Effects of Cr ₂ O ₃ Content on Microstructure and Mechanical Properties of Al ₂ O ₃ Matrix Composites. <i>Coatings</i> , 2021, 11, 234.	1.2	48
31	Applying environmental Kuznets curve framework to assess the nexus of industry, globalization, and CO ₂ emission. <i>Environmental Technology and Innovation</i> , 2021, 21, 101377.	3.0	61
32	Tellurium Triggered Formation of Te/Fe-NiOOH Nanocubes as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10972-10978.	4.0	76
33	NiCo ₂ O ₄ Nanosheets for High Performances Formaldehyde Gas Sensing Performances. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 288-292.	0.1	4
34	Effect of potassium permanganate on morphological, structural and electro-optical properties of graphene oxide thin films. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102953.	2.3	36
35	Designing Optically & Utilization of Thermopile Chip with Resonant Cavity Absorber Structure as IR Absorber. <i>Coatings</i> , 2021, 11, 302.	1.2	3
36	Surface charge on chitosan/cellulose nanowhiskers composite via functionalized and untreated carbon nanotube. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103022.	2.3	29

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37	Simultaneous synthesis of bimetallic@3D graphene electrocatalyst for HER and OER. <i>Frontiers of Materials Science</i> , 2021, 15, 305-315.	1.1	3
38	Enhanced thermoelectric properties of n-type Cl doped PbS-based materials via Bi alloying. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157788.	2.8	15
39	Facile synthesis of ceria-based composite oxide materials by combustion for high-performance solid oxide fuel cells. <i>Ceramics International</i> , 2021, 47, 22035-22041.	2.3	8
40	Encapsulation of TiO ₂ nanotubes with Cs nanoparticles to enhance electron injection and thermal stability of perovskite solar cells. <i>Surfaces and Interfaces</i> , 2021, 23, 101033.	1.5	9
41	Lanthanum-Zinc Binary Oxide Nanocomposite with Promising Heterogeneous Catalysis Performance for the Active Conversion of 4-Nitrophenol into 4-Aminophenol. <i>Coatings</i> , 2021, 11, 537.	1.2	24
42	Combining structurally ordered intermetallic nodes: Kinetic and isothermal studies for removal of malachite green and methyl orange with mechanistic aspects. <i>Microchemical Journal</i> , 2021, 164, 105973.	2.3	90
43	Remotely sensed identification of canopy characteristics using UAV-based imagery under unstable environmental conditions. <i>Environmental Technology and Innovation</i> , 2021, 22, 101465.	3.0	22
44	2D MXene Materials for Sodium Ion Batteries: A review on Energy Storage. <i>Journal of Energy Storage</i> , 2021, 37, 102478.	3.9	62
45	Energy storage performance of binder-free ruthenium-oxide nano-needles based free-standing electrode in neutral pH electrolytes. <i>Electrochimica Acta</i> , 2021, 378, 138139.	2.6	13
46	Pyrometallurgical recovery of zinc and valuable metals from electric arc furnace dust – A review. <i>Journal of Cleaner Production</i> , 2021, 298, 126788.	4.6	117
47	Review on Computational-Assisted to Experimental Synthesis, Interfacial Perspectives of Garnet-Solid Electrolytes for All-Solid-State Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060529.	1.3	13
48	Magnetic Ni doping induced high power factor of Cu ₂ GeSe ₃ -based bulk materials. <i>Journal of the European Ceramic Society</i> , 2021, 41, 3473-3479.	2.8	11
49	Enhanced Thermoelectric Properties of Cu ₃ SbSe ₄ Compounds by Isovalent Bismuth Doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 18849-18861.	1.1	3
50	One-step synthesis of carbon incorporated 3D MnO ₂ nanorods as a highly efficient electrode material for pseudocapacitors. <i>Materials Letters</i> , 2021, 295, 129838.	1.3	21
51	Energy storage properties of hydrothermally processed ultrathin 2D binder-free ZnCo ₂ O ₄ nanosheets. <i>Nanotechnology</i> , 2021, 32, 385402.	1.3	17
52	Bioenergy Potential of Albumin, Acetic Acid, Sucrose, and Blood in Microbial Fuel Cells Treating Synthetic Wastewater. <i>Processes</i> , 2021, 9, 1289.	1.3	4
53	Polyvinyl Alcohol and Nano-Clay Based Solution Processed Packaging Coatings. <i>Coatings</i> , 2021, 11, 942.	1.2	18
54	The nexus of industrialization, GDP per capita and CO ₂ emission in China. <i>Environmental Technology and Innovation</i> , 2021, 23, 101674.	3.0	57

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55	Tuning Ag content to achieve high thermoelectric properties of Bi-doped p-type Cu ₃ SbSe ₄ -based materials. <i>Journal of Alloys and Compounds</i> , 2021, 872, 159659.	2.8	14
56	Kinetics and mechanistic investigations of ethylene-propylene copolymerizations catalyzed with symmetrical metallocene and activated by TIBA/borate. <i>Journal of Organometallic Chemistry</i> , 2021, 949, 121929.	0.8	11
57	SnS ₂ nanosheet arrays anchoring on functionalized carbon cloth for quasi-solid-state flexible supercapacitor with satisfactory electrochemical performance and mechanical stability. <i>Nanotechnology</i> , 2021, 32, 505408.	1.3	9
58	Boosted electrochemical performance of CuS anchored on carbon cloth as an integrated electrode for quasi-solid-state flexible supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2021, 897, 115610.	1.9	20
59	Au@GO@g-C ₃ N ₄ and Fe ₂ O ₃ nanocomposite for efficient photocatalytic and electrochemical applications. <i>Surfaces and Interfaces</i> , 2021, 26, 101399.	1.5	16
60	'Environment-friendly' polymer solid electrolyte membrane via a rapid surface-initiating polymeration strategy. <i>Chemical Engineering Journal</i> , 2021, 421, 129710.	6.6	58
61	Enhanced NO ₂ gas-sensing performance of 2D Ti ₃ C ₂ /TiO ₂ nanocomposites by in-situ formation of Schottky barrier. <i>Applied Surface Science</i> , 2021, 567, 150747.	3.1	53
62	3D nanostructured Cu ₂ O modified copper foam as a binder-free electrode for all-solid-state supercapacitor. <i>Ceramics International</i> , 2021, 47, 31138-31148.	2.3	11
63	Improved ionic conductivity and Li dendrite suppression of PVDF-based solid electrolyte membrane by LLZO incorporation and mechanical reinforcement. <i>Ionics</i> , 2021, 27, 1101-1111.	1.2	31
64	Nanomedicine and drug delivery. , 2021, , 221-246.		0
65	Neodymium-decorated graphene as an efficient electrocatalyst for hydrogen production. <i>Nanoscale</i> , 2021, 13, 15471-15480.	2.8	6
66	Mechanical Characteristics and Adhesion of Glass-Kevlar Hybrid Composites by Applying Different Ratios of Epoxy in Lamination. <i>Coatings</i> , 2021, 11, 94.	1.2	11
67	Effect of the Al, Cr and B elements on the mechanical properties and oxidation resistance of Nb-Si based alloys: a review. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	21
68	Investigations of anodization parameters and TiCl ₄ treatments on TiO ₂ nanostructures for highly optimized dye-sensitized solar cells. <i>Surfaces and Interfaces</i> , 2021, 27, 101578.	1.5	2
69	Dynamic Behavior of Sandwich Structures with Magnetorheological Elastomer: A Review. <i>Materials</i> , 2021, 14, 7025.	1.3	7
70	Nanosheets Assembled Co ₃ O ₄ Nanoflowers for Supercapacitor Applications. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1357-1362.	0.1	7
71	Surface Modification and Carbonation Curing of Iron Tailing Based on Granulation. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1485-1491.	0.1	1
72	Effects of Temperature, pH, Culture Time, Oscillation Frequency on Self-Healing Microbes and Growth Predictive Model. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1638-1644.	0.1	5

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73	Theoretical Investigations on Interfacial Behavior of Ag@Cu@Ti/Si ₃ N ₄ Wetting System. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1780-1790.	0.1	5
74	Self-Healing Behaviors of Core@Shell-Structured Microcapsules Cement-Based Materials Immobilized with Microbes by Expanded Perlite. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1828-1833.	0.1	5
75	Outstanding Electrochemical Supercapacitor Performances of NiCo ₂ O ₄ Nanoflowers. <i>Science of Advanced Materials</i> , 2021, 13, 2460-2466.	0.1	4
76	Mesoporous manganese-selenide microflowers with enhanced electrochemical performance as a flexible symmetric 1.8 V supercapacitor. <i>Chemical Engineering Journal</i> , 2020, 382, 122814.	6.6	108
77	Fabrication, structure, and frequency-dependent electrical and dielectric properties of Sr-doped BaTiO ₃ ceramics. <i>Ceramics International</i> , 2020, 46, 2238-2246.	2.3	213
78	Anchoring 2D NiMoO ₄ nano-plates on flexible carbon cloth as a binder-free electrode for efficient energy storage devices. <i>Ceramics International</i> , 2020, 46, 4470-4476.	2.3	30
79	ZIF-67 MOF-derived unique double-shelled Co ₃ O ₄ /NiCo ₂ O ₄ nanocages for superior Gas-sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127251.	4.0	69
80	Influence of the surface decoration of phosphorene with Ag nanoclusters on gas sensing properties. <i>Applied Surface Science</i> , 2020, 504, 144374.	3.1	21
81	Construction of binder-free hierarchical mesoporous 3D Co@MoO ₄ flowers assembled by nanosheets for aqueous symmetrical 1.2 V supercapacitor in basic electrolyte. <i>Electrochimica Acta</i> , 2020, 330, 135201.	2.6	7
82	Novel gravel-like NiMoO ₄ nanoparticles on carbon cloth for outstanding supercapacitor applications. <i>Ceramics International</i> , 2020, 46, 6406-6412.	2.3	129
83	Robust TiN nanoparticles polysulfide anchor for Li-S storage and diffusion pathways using first principle calculations. <i>Chemical Engineering Journal</i> , 2020, 391, 123595.	6.6	159
84	In-vitro evaluation of antimicrobial, antioxidant, alpha-amylase inhibition and cytotoxicity properties of Cannabis sativa. <i>Advances in Traditional Medicine</i> , 2020, 20, 181-187.	1.0	4
85	Engineering of Zirconium based metal-organic frameworks (Zr-MOFs) as efficient adsorbents. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 262, 114766.	1.7	108
86	Synthesis, Characterization and Wettability of Cu-Sn Alloy on the Si-Implanted 6H-SiC. <i>Coatings</i> , 2020, 10, 906.	1.2	24
87	Recent advancement and development of chitin and chitosan-based nanocomposite for drug delivery: Critical approach to clinical research. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8935-8964.	2.3	59
88	Development of Mn-PBA on GO sheets for adsorptive removal of ciprofloxacin from water: Kinetics, isothermal, thermodynamic and mechanistic studies. <i>Materials Chemistry and Physics</i> , 2020, 245, 122737.	2.0	62
89	Distinctive flower-like CoNi ₂ S ₄ nanoneedle arrays (CNS@NAs) for superior supercapacitor electrode performances. <i>Ceramics International</i> , 2020, 46, 25942-25948.	2.3	62
90	Achieving high-energy density and superior cyclic stability in flexible and lightweight pseudocapacitor through synergic effects of binder-free CoGa ₂ O ₄ 2D-hexagonal nanoplates. <i>Nano Energy</i> , 2020, 77, 105276.	8.2	118

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91	Enhanced dielectric and thermal performance by fabricating coalesced network of alumina trihydrate/boron nitride in silicone rubber for electrical insulation. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	14
92	An experimental and DFT study on novel dyes incorporated with natural dyes on titanium dioxide (TiO ₂) towards solar cell application. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	34
93	Efficient Cu/rGO/TiO ₂ nanocomposite-based photoanode for highly-optimized plasmonic dye-sensitized solar cells. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 2419-2427.	1.6	7
94	Surface assembly of Fe ₃ O ₄ nanodiscs embedded in reduced graphene oxide as a high-performance negative electrode for supercapacitors. <i>Ceramics International</i> , 2020, 46, 19499-19505.	2.3	29
95	High-performance flexible hybrid-supercapacitor enabled by pairing binder-free ultrathin NiO nanosheets and metal-organic framework derived N-doped carbon nanosheets. <i>Electrochimica Acta</i> , 2020, 349, 136384.	2.6	45
96	Rethinking sustainability: a review of Liberia's municipal solid waste management systems, status, and challenges. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 1299-1317.	1.6	35
97	Investigation of morphology and texture properties of WSi ₂ coatings on W substrate based on contact-mode AFM and EBSD. <i>Surface and Coatings Technology</i> , 2020, 396, 125966.	2.2	37
98	Construction of hierarchical trimetallic organic framework leaf-like nanostructures derived from carbon nanotubes for gas-sensing applications. <i>Journal of Hazardous Materials</i> , 2020, 400, 123155.	6.5	23
99	Simulation and Experimental Investigation on Carbonized Tracking Failure of EPDM/BN-Based Electrical Insulation. <i>Polymers</i> , 2020, 12, 582.	2.0	13
100	Decorating spherical In ₂ O ₃ nanoparticles onto ZnO nanosheets for outstanding gas-sensing performances. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 3924-3933.	1.1	14
101	Ni ₃ Fe nanoparticles enclosed by B-doped carbon for efficient bifunctional performances of oxygen and hydrogen evolution reactions. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155267.	2.8	46
102	WO ₃ porous nanosheet arrays with enhanced low temperature NO ₂ gas sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128050.	4.0	68
103	Energy storage properties of hydrothermally processed, nanostructured, porous CeO ₂ nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2020, 865, 114158.	1.9	19
104	Cooperative Enhancement Solar Hydrogen Generation of Reformed g-C ₃ N ₄ /TiO ₂ Mesocrystals Composites. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2020, 15, 46-53.	0.1	9
105	Enhanced Performance of Fabry-Perot Tunable Filter by Groove Geometry Design of Double Folded Cantilever. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2020, 15, 687-692.	0.1	2
106	Tuning the Edge-Site Activity of 2H Phase MoSe ₂ for Hydrogen Evolution Reaction via Sulfur Substitution and Strain Engineering. <i>Science of Advanced Materials</i> , 2020, 12, 1446-1456.	0.1	6
107	Effect of micro-nano additives on breakdown, surface tracking and mechanical performance of ethylene propylene diene monomer for high voltage insulation. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14061-14071.	1.1	19
108	Na-Ions Diffusion Impacts Supercapacitor Performance for Amaryllis-like NiCo ₂ O ₄ Nanostructures. <i>Inorganic Chemistry</i> , 2019, 58, 11110-11117.	1.9	5

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109	Excellent electrochemical performance of SrZrO ₃ nanorods as supercapacitor electrode in aqueous electrolytes. <i>Applied Surface Science</i> , 2019, 495, 143587.	3.1	17
110	Carbon encapsulated mixed-metal sulfide as proficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14762-14771.	1.1	4
111	Doped quaternary metal chalcogenides Cu ₂ ZnSnS ₄ nanocrystals as efficient light harvesters for solar cell devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20860-20869.	1.1	5
112	FeCo-Nx encapsulated in 3D interconnected N-doped carbon nanotubes for ultra-high performance lithium-ion batteries and flexible solid-state symmetric supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019, 855, 113615.	1.9	33
113	One-step synthesis of unique catalyst Ni ₉ S ₈ @C for excellent MOR performances. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24525-24533.	3.8	82
114	RuO ₂ nanorods decorated CNTs grown carbon cloth as a free standing electrode for supercapacitor and lithium ion batteries. <i>Electrochimica Acta</i> , 2019, 326, 135009.	2.6	54
115	An ultra-high energy density flexible asymmetric supercapacitor based on hierarchical fabric decorated with 2D bimetallic oxide nanosheets and MOF-derived porous carbon polyhedra. <i>Journal of Materials Chemistry A</i> , 2019, 7, 946-957.	5.2	242
116	Synthesis and microstructures of La _{1-x} CaxCrO ₃ perovskite powders for optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3472-3481.	1.1	26
117	First-principles calculations and experiments for Ce ⁴⁺ effects on structure and chemical stabilities of Zr _{1-x} Ce _x SiO ₄ . <i>Journal of Nuclear Materials</i> , 2019, 514, 276-283.	1.3	11
118	Dumbbell-shaped mixed bimetallic-oxides decorated on carbon-fiber textile for high-performance flexible symmetric solid-state pseudocapacitors. <i>Materials Letters</i> , 2019, 253, 50-54.	1.3	2
119	Sharply-precipitated spherical assembly of ZnO nanosheets for low temperature H ₂ S gas sensing performances. <i>Materials Science in Semiconductor Processing</i> , 2019, 100, 283-289.	1.9	35
120	Novel binder-free electrode of NiCo ₂ O ₄ @NiMn ₂ O ₄ core-shell arrays modified carbon fabric for enhanced electrochemical properties. <i>Ceramics International</i> , 2019, 45, 16904-16910.	2.3	18
121	MHD flow of Maxwell fluid with nanomaterials due to an exponentially stretching surface. <i>Scientific Reports</i> , 2019, 9, 7312.	1.6	80
122	Unique hierarchical mesoporous LaCrO ₃ perovskite oxides for highly efficient electrochemical energy storage applications. <i>Ceramics International</i> , 2019, 45, 15164-15170.	2.3	59
123	Synthesis, characterization and charge storage properties of C ₆₀ -fullerene microparticles as a flexible negative electrode for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 8568-8576.	1.1	16
124	Synthesis of mesoporous defective graphene-nanosheets in a space-confined self-assembled nanoreactor: Highly efficient capacitive energy storage. <i>Electrochimica Acta</i> , 2019, 305, 517-527.	2.6	45
125	Morphological structural and energy storage based study of MoS ₂ /ZnO nanocomposite. <i>Materials Research Express</i> , 2019, 6, 125087.	0.8	6
126	Adaptive geospatial modeling of soil contamination by selected heavy metals in the industrial area of Sheikhpura, Pakistan. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 4447-4464.	1.8	21

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127	Unique oblate-like ZnWO ₄ nanostructures for electrochemical energy storage performances. <i>Materials Letters</i> , 2019, 240, 103-107.	1.3	11
128	Microstructure and Mechanical Properties of MoSi ₂ Coating Deposited on Mo Substrate by Hot Dipping Processes. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2019, 14, 1680-1685.	0.1	22
129	Effects of Preform Structures on the Performance of Carbon and Carbon Composites. <i>Science of Advanced Materials</i> , 2019, 11, 945-953.	0.1	7
130	Experimental Insights on Factors Influencing Sensitivity of Thin Film Narrow Band-Pass Filters. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2019, 14, 1548-1554.	0.1	1
131	Electron transport and electrochromic properties of sol-gel WO ₃ thin films: Effect of crystallinity. <i>Thin Solid Films</i> , 2018, 653, 119-125.	0.8	33
132	Enhanced thermoelectric properties in Ge-doped and single-filled skutterudites prepared by unique melt-spinning method. <i>Ceramics International</i> , 2018, 44, 12610-12614.	2.3	10
133	Hierarchically MoS ₂ nanospheres assembled from nanosheets for superior CO gas-sensing properties. <i>Materials Research Bulletin</i> , 2018, 101, 132-139.	2.7	41
134	RGO-loaded flower-like ZnCo ₂ O ₄ nanohybrid as counter electrode for dye-sensitized solar cells. <i>Materials Letters</i> , 2018, 225, 5-8.	1.3	24
135	Ag-doped NiO porous network structure on Ni foam as electrode for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1759-1765.	1.1	27
136	First-principles investigation on stability and diffusion mechanism of helium impurities in 4H-SiC. <i>Journal of Nuclear Materials</i> , 2018, 499, 168-174.	1.3	6
137	Facile synthesis of cobalt ferrite nanoparticles (CFO-NPs) as anode material with enhanced lithium storage capability. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 236-237, 162-169.	1.7	12
138	Structures and energetics of point defects with charge states in zircon: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2018, 759, 60-69.	2.8	4
139	First-principles GGA+U calculation investigating the hydriding and diffusion properties of hydrogen in PuH ₂ , O ₂ . <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13632-13638.	3.8	17
140	Unique polyhedron CeO ₂ nanostructures for superior formaldehyde gas-sensing performances. <i>Ceramics International</i> , 2018, 44, 19624-19630.	2.3	72
141	First-principles study of hydrogen retention and diffusion behaviors in 4H-SiC. <i>Superlattices and Microstructures</i> , 2018, 122, 362-370.	1.4	1
142	Hierarchical 3D NiCo ₂ O ₄ @ZnWO ₄ core-shell structures as binder-free electrodes for all-solid-state supercapacitors. <i>Applied Surface Science</i> , 2018, 452, 113-122.	3.1	52
143	Facile ordered ZnCo ₂ O ₄ @MnO ₂ nanosheet arrays for superior-performance supercapacitor electrode. <i>Solid State Sciences</i> , 2018, 84, 51-56.	1.5	13
144	Core-shell NiCo ₂ O ₄ @ZnWO ₄ nanosheets arrays electrode material deposited at carbon-cloth for flexible electrochemical supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12871-12877.	1.1	10

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145	Hierarchical Co ₃ O ₄ @ZnWO ₄ core/shell nanostructures on nickel foam: Synthesis and electrochemical performance for supercapacitors. <i>Ceramics International</i> , 2017, 43, 5095-5101.	2.3	28
146	Low-cost and high-performance electrode materials based on BiCoO ₃ microspheres. <i>Ceramics International</i> , 2017, 43, 2956-2961.	2.3	4
147	A study on monolayer MoS ₂ doping at the S site via the first principle calculations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 94, 47-52.	1.3	13
148	Ni@NiCo ₂ O ₄ core/shells composite as electrode material for supercapacitor. <i>Ceramics International</i> , 2017, 43, 2057-2062.	2.3	29
149	Electrochemical properties of hollow MnO ₂ nanostructure: synthesis and application. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 418-425.	1.1	7
150	{10 $\bar{1}$ 2} Twins across twin boundaries traced by in situ EBSD. <i>Journal of Alloys and Compounds</i> , 2017, 690, 699-706.	2.8	50
151	Highly reactive 0D ZnS nanospheres and nanoparticles for formaldehyde gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 1243-1250.	4.0	57
152	Truncated NiCo ₂ S ₄ cubohexa-octahedral nanostructures for high-performance supercapacitor. <i>Materials Letters</i> , 2017, 189, 21-24.	1.3	13
153	Facile synthesis of three-dimensional NiCo ₂ O ₄ with different morphology for supercapacitors. <i>RSC Advances</i> , 2016, 6, 70077-70084.	1.7	75
154	Facile synthesis of nickel doped walnut-like MnO ₂ nanoflowers and their application in supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 6202-6207.	1.1	12
155	Nanosheet-assembled hollow NiO ball-flower for high-performance supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 8020-8026.	1.1	9
156	Ag ₂ O loaded NiO ball-flowers for high performance supercapacitors. <i>Materials Letters</i> , 2016, 177, 71-75.	1.3	22
157	Amaryllis-like NiCo ₂ S ₄ nanoflowers for high-performance flexible carbon-fiber-based solid-state supercapacitor. <i>Ceramics International</i> , 2016, 42, 11851-11857.	2.3	63
158	NiCo ₂ O ₄ arrays nanostructures on nickel foam: Morphology control and application for pseudocapacitors. <i>Ceramics International</i> , 2016, 42, 14976-14983.	2.3	40
159	Rational synthesis of Cu-doped porous γ -MnO ₂ microsphere for high performance supercapacitor applications. <i>Electrochimica Acta</i> , 2016, 191, 716-723.	2.6	52
160	Synthesis and characterization of CeO ₂ and ZnCeO ₂ nanomaterials and exposure to photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1873-1880.	1.1	4
161	Cr-doped MnO ₂ nanostructure: morphology evolution and electrochemical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 3265-3270.	1.1	20
162	Assembly of bulbous ZnO nanorods to bulbous nanoflowers and their high selectivity towards formaldehyde. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 4966-4971.	1.1	5

#	ARTICLE	IF	CITATIONS
163	Hydrothermal synthesis of hierarchical SnO ₂ nanostructures made of superfine nanorods for smart gas sensor. Applied Surface Science, 2016, 364, 371-377.	3.1	53
164	One-pot synthesis of novel one-dimensional bismuth oxychloride nanotube. Materials Letters, 2016, 168, 13-16.	1.3	6
165	Hydrothermal synthesis of ZnO microcakes assembled by octahedrons and their gas-sensing property. Journal of Materials Science: Materials in Electronics, 2015, 26, 9529-9534.	1.1	2
166	Controlled synthesis of SnO ₂ hierarchical architectures made of ultrathin nanoflakes for enhanced ethanol gas sensing properties. Applied Surface Science, 2015, 351, 1087-1093.	3.1	20
167	Studies on Growth Mechanism of Annealed Graphite Powder and Gas-Sensor Applications. Materials Science Forum, 2015, 832, 102-109.	0.3	1
168	Antibacterial Activity Studies of Ni and SnO ₂ Loaded Chitosan Beads. Materials Science Forum, 2015, 832, 110-122.	0.3	7
169	Hydrothermal synthesis, characterization of h-WO ₃ nanowires and gas sensing of thin film sensor based on this powder. Thin Solid Films, 2015, 584, 294-299.	0.8	46
170	Hydrothermal synthesis, characterization and optical absorption property of nanoscale WS ₂ /TiO ₂ composites. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 68, 171-175.	1.3	20
171	Synthesis and characterization of novel chrysanthemum-like tungsten disulfide (WS ₂) nanostructure: structure, growth and optical absorption property. Journal of Materials Science: Materials in Electronics, 2015, 26, 809-814.	1.1	7
172	Enhanced tensile properties of magnesium composites reinforced with graphene nanoplatelets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 630, 36-44.	2.6	167
173	Large scale hydrothermal synthesis of monodisperse hexagonal WO ₃ nanowire and the growth mechanism. Materials Letters, 2015, 147, 12-15.	1.3	49
174	First-principles calculations of the twin boundary energies and adhesion energies of interfaces for cubic face-centered transition-metal nitrides and carbides. Applied Surface Science, 2015, 355, 1132-1135.	3.1	27
175	Polymer-assisted co-axial multi-layered circular ZnO nanodisks. Materials Letters, 2015, 152, 260-263.	1.3	18
176	Hydrothermal synthesis and controlled growth of tungsten disulphide nanostructures from one-dimension to three-dimensions. Micro and Nano Letters, 2015, 10, 183-186.	0.6	6
177	Controlled synthesis of monodisperse WO ₃ ·H ₂ O square nanoplates and their gas sensing properties. Applied Surface Science, 2015, 349, 380-386.	3.1	46
178	Controlled synthesis of hierarchical birnessite-type MnO ₂ nanoflowers for supercapacitor applications. Applied Surface Science, 2015, 356, 259-265.	3.1	114
179	Atomic and electronic structure of the TiN/MgO interface from first principles. Computational Materials Science, 2015, 105, 83-89.	1.4	18
180	Urchin-like SnO ₂ nanoflowers via hydrothermal synthesis and their gas sensing properties. Materials Letters, 2015, 161, 153-156.	1.3	11

#	ARTICLE	IF	CITATIONS
181	Nanobelt-assembled nest-like MoO ₃ hierarchical structure: Hydrothermal synthesis and gas-sensing properties. <i>Materials Letters</i> , 2015, 160, 476-479.	1.3	34
182	UV-enhanced hydrogen sensor based on nanocone-assembled 3D SnO ₂ at low temperature. <i>Materials Letters</i> , 2015, 161, 648-651.	1.3	20
183	Control synthesis and formation mechanism of sphere-like titanium dioxide. <i>Micro and Nano Letters</i> , 2015, 10, 23-27.	0.6	1
184	Embedded ZnO nanorods and gas-sensing properties. <i>Ceramics International</i> , 2015, 41, 4861-4866.	2.3	22
185	Improved strength and ductility of magnesium with addition of aluminum and graphene nanoplatelets (Al+GNPs) using semi powder metallurgy method. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 23, 243-250.	2.9	133
186	Enhanced Photocatalytic Properties of Hierarchical Microstructured TiO ₂ Spheres Synthesized with Titanium Powders. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 252-256.	0.4	4
187	Preparation of ZnO nanodisks using hydrothermal method and sensing to reductive gases. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4725-4729.	1.1	6
188	Surfactant dependent growth of twinned ZnO nanodisks. <i>Materials Letters</i> , 2014, 118, 165-168.	1.3	25
189	Effect of different structures on the gas sensing property of ZnO. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 376-381.	1.1	8
190	A simple preparation of ZnO nanocones and exposure to formaldehyde. <i>Materials Letters</i> , 2014, 128, 35-38.	1.3	35
191	Preparation, characterization and gas sensing properties of sub-micron porous WO ₃ spheres. <i>Materials Letters</i> , 2014, 117, 41-44.	1.3	36
192	Synthesis and characterization of flower-like WS ₂ nanospheres via a facile hydrothermal route. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4300-4305.	1.1	22
193	Improving properties of Mg with Al-Cu additions. <i>Materials Characterization</i> , 2014, 95, 140-147.	1.9	22
194	Effects of reaction time on the morphological, structural, and gas sensing properties of ZnO nanostructures. <i>Materials Science in Semiconductor Processing</i> , 2014, 18, 52-58.	1.9	35
195	Hydrothermal synthesis of variety low dimensional WS ₂ nanostructures. <i>Materials Letters</i> , 2014, 129, 205-208.	1.3	71
196	Synthesis and Controllable Growth of Three-Dimensional WS ₂ with Different Morphologies. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 1087-1090.	0.4	2
197	Effect of graphene nanoplatelets (GNPs) addition on strength and ductility of magnesium-titanium alloys. <i>Journal of Magnesium and Alloys</i> , 2013, 1, 242-248.	5.5	135
198	Superior ethanol-sensing performance research of WO ₃ ·0.33H ₂ O doped chrysanthemum-like NiO composite. <i>Materials Letters</i> , 2013, 108, 231-234.	1.3	11

#	ARTICLE	IF	CITATIONS
199	Hierarchical ZnO porous microspheres and their gas-sensing properties. <i>Ceramics International</i> , 2013, 39, 5919-5924.	2.3	19