

# M S Akhtar

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

469  
papers

14,262  
citations

62  
h-index

93  
g-index

493  
ext. papers

16,525  
ext. citations

4.7  
avg, IF

7.1  
L-index

#	Paper	IF	Citations
469	Coconut Carbon Dots: Progressive Large-Scale Synthesis, Detailed Biological Activities and Smart Sensing Aptitudes towards Tyrosine.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	2
468	Carbon?Iron Electron Transport Channels in Porphyrin-Graphene Complex for ppb-Level Room Temperature NO Gas Sensing.. <i>Small</i> , <b>2022</b> , 18, e2103259	11	3
467	Transformation of solid plastic waste to activated carbon fibres for wastewater treatment.. <i>Chemosphere</i> , <b>2022</b> , 133692	8.4	4
466	Nanocomposite (S3Sb2) x (S2Ge)100% chalcogenide glasses: structural and physical properties. <i>Emerging Materials Research</i> , <b>2022</b> , 11, 1-8	1.4	0
465	An In-Depth Optimization of Thickness of Base and Emitter of ZnO/Si Heterojunction-Based Crystalline Silicon Solar Cell: A Simulation Method. <i>Journal of Electronic Materials</i> , <b>2022</b> , 51, 586	1.9	1
464	Multiple ions detection by field-effect transistor sensors based on ZnO@GO and ZnO@rGO nanomaterials: Application to trace detection of Cr (III) and Cu (II). <i>Chemosphere</i> , <b>2022</b> , 286, 131695	8.4	4
463	Assembling Hollow Cactus-Like ZnO Nanorods with Dipole-Modified Graphene Nanosheets for Practical Room-Temperature Formaldehyde Sensing.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	3
462	A computational study of carrier lifetime, doping concentration, and thickness of window layer for GaAs solar cell based on Al2O3 antireflection layer. <i>Solar Energy</i> , <b>2022</b> , 234, 330-337	6.8	0
461	Sensitivity enhancement of SPR biosensor employing heterostructure blue phosphorus/MoS2 and silicon layer. <i>Emerging Materials Research</i> , <b>2022</b> , 11, 1-10	1.4	1
460	Determinantal study on the thickness of graphene oxide as ARC layer for silicon solar cells using: A simulation approach. <i>Materials Science in Semiconductor Processing</i> , <b>2022</b> , 147, 106695	4.3	0
459	Effective removal of Pb(II) and Ni(II) ions by Bacillus cereus and Bacillus pumilus: An experimental and mechanistic approach.. <i>Environmental Research</i> , <b>2022</b> , 113337	7.9	1
458	Seed germination studies on Chickpeas, Barley, Mung beans and Wheat with natural biomass and plastic waste derived C-dots.. <i>Science of the Total Environment</i> , <b>2022</b> , 837, 155593	10.2	1
457	Approaching high performance Ni(Co) molybdate electrode materials for flexible hybrid devices. <i>RSC Advances</i> , <b>2022</b> , 12, 14858-14864	3.7	1
456	Sustainable agronomic response of carbon quantum dots on Allium sativum: Translocation, physiological responses and alternations in chromosomal aberrations. <i>Environmental Research</i> , <b>2022</b> , 113559	7.9	0
455	Investigation of Anions Effects on the Morphology of NiO Nanostructures and Their Non-Enzymatic Glucose Sensing Applications. <i>Science of Advanced Materials</i> , <b>2021</b> , 13, 1739-1747	2.3	
454	Co-Doped ZnO Nano-Agglomerates as a Potential Scaffold for Non-Enzymatic Hydrogen Peroxide Sensing. <i>Science of Advanced Materials</i> , <b>2021</b> , 13, 1732-1738	2.3	0
453	The Synergetic Effect of MoSO2/Graphite Nanosheets as Highly Efficient for Electrochemical Water Splitting in Acidic Media. <i>Science of Advanced Materials</i> , <b>2021</b> , 13, 1574-1583	2.3	

452	Hetero-aggregation behaviour of green copper nanoparticles: Course interactions with environmental components. <i>Separation and Purification Technology</i> , <b>2021</b> , 284, 120177	8.3	0
451	Realizing high performance flexible supercapacitors by electrode modification.. <i>RSC Advances</i> , <b>2021</b> , 11, 39045-39050	3.7	2
450	Practical room temperature formaldehyde sensing based on a combination of visible-light activation and dipole modification. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 23955-23967	13	4
449	Manipulating the Electrocatalytic Performance of NiCoP Nanowires by V Doping Under Acidic and Basic Conditions for Hydrogen and Oxygen Evolution Reactions. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 10791-10798	5.6	8
448	Influence of Donor Groups on Benzoselenadiazole-Based Dopant-Free Hole Transporting Materials for High Performance Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 312-321	6.1	2
447	Gas sensor device for high-performance ethanol sensing using $\beta$ MnO <sub>2</sub> nanoparticles. <i>Materials Letters</i> , <b>2021</b> , 286, 129232	3.3	12
446	Electrochemical behavior of uniformly decorated electrospun nickel on carbon nanofibers. <i>Molecular Catalysis</i> , <b>2021</b> , 504, 111458	3.3	
445	Ni-Doped ZnO Thin Films: Deposition, Characterization and Photocatalytic Applications. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2021</b> , 21, 1560-1569	1.3	0
444	A simulation approach for investigating the performances of cadmium telluride solar cells using doping concentrations, carrier lifetimes, thickness of layers, and band gaps. <i>Solar Energy</i> , <b>2021</b> , 216, 259-265	6.8	14
443	Methylene blue intercalated layered MnO <sub>2</sub> nanosheets for high-sensitive non-enzymatic ascorbic acid sensor. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 8317-8329	2.1	4
442	Low-temperature synthesis of cadmium-doped zinc oxide nanosheets for enhanced sensing and environmental remediation applications. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 863, 158649	5.7	2
441	Ni Foam Substrates Modified with a ZnCo <sub>2</sub> O <sub>4</sub> Nanowire-Coated Ni(OH) <sub>2</sub> Nanosheet Electrode for Hybrid Capacitors and Electrocatalysts. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 5461-5468	5.6	16
440	Numerical Investigation of Graphene as a Back Surface Field Layer on the Performance of Cadmium Telluride Solar Cell. <i>Molecules</i> , <b>2021</b> , 26,	4.8	6
439	Urchin like CuO hollow microspheres for selective high response ethanol sensor application: Experimental and theoretical studies. <i>Ceramics International</i> , <b>2021</b> , 47, 12084-12095	5.1	14
438	Selective ethanol gas sensing performance of flower-shaped CuO composed of thin nanoplates. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 18565-18579	2.1	3
437	An exploration of 3-methoxypropionitrile chemical sensor based on layered hexagonal NiCo <sub>2</sub> O <sub>4</sub> nanoplates as electrode material. <i>Ceramics International</i> , <b>2021</b> , 47, 15357-15366	5.1	0
436	The co-modification of MoS <sub>2</sub> and CdS on TiO <sub>2</sub> nanotube array for improved photoelectrochemical properties. <i>Ionics</i> , <b>2021</b> , 27, 4371-4381	2.7	0
435	$\beta$ MnO <sub>2</sub> Nanowires as Potential Scaffolds for a High-Performance Formaldehyde Gas Sensor Device. <i>Coatings</i> , <b>2021</b> , 11, 860	2.9	5

434	Highly Sensitive and Selective Eco-Toxic 4-Nitrophenol Chemical Sensor Based on Ag-Doped ZnO Nanoflowers Decorated with Nanosheets. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1
433	Label-Free Electrochemical Sensor Based on Manganese Doped Titanium Dioxide Nanoparticles for Myoglobin Detection: Biomarker for Acute Myocardial Infarction. <i>Molecules</i> , <b>2021</b> , 26,	4.8	6
432	Advances in Responsively Conductive Polymer Composites and Sensing Applications. <i>Polymer Reviews</i> , <b>2021</b> , 61, 157-193	14	47
431	Effect of cerium ions in Ce-Doped ZnO nanostructures on their photocatalytic and picric acid chemical sensing. <i>Ceramics International</i> , <b>2021</b> , 47, 3089-3098	5.1	17
430	Colloidal synthesis of NiMn <sub>2</sub> O <sub>4</sub> nanodisks decorated reduced graphene oxide for electrochemical applications. <i>Microchemical Journal</i> , <b>2021</b> , 160, 105630	4.8	7
429	Enticing 3D peony-like ZnGaO microstructures for electrochemical detection of N,N-dimethylmethanamide chemical. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 404, 124069	12.8	6
428	ZnO/Bi <sub>2</sub> O <sub>3</sub> nanocubes for fluorescence sensing and dye degradation applications. <i>Ceramics International</i> , <b>2021</b> , 47, 6201-6210	5.1	16
427	An insight into the mechanism of Symbiotic-bioremoval of heavy metal ions from synthetic and industrial samples using bacterial consortium. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 21, 101302	7	7
426	Photocatalytic and fluorescent chemical sensing applications of La-doped ZnO nanoparticles. <i>Chemical Papers</i> , <b>2021</b> , 75, 1555-1566	1.9	12
425	Fabrication and characterization of CuO nanoplates based sensor device for ethanol gas sensing application. <i>Chemical Physics Letters</i> , <b>2021</b> , 763, 138204	2.5	20
424	In vitro microcosm of co-cultured bacteria for the removal of hexavalent Cr and tannic acid: A mechanistic approach to study the impact of operational parameters. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 208, 111484	7	7
423	Silica-Based Bioactive Glasses and Their Applications in Hard Tissue Regeneration: A Review. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	16
422	Impact of Different Antireflection Layers on Cadmium Telluride (CdTe) Solar Cells: a PC1D Simulation Study. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 2199-2205	1.9	7
421	Charge transfer driven by redox dye molecules on graphene nanosheets for room-temperature gas sensing. <i>Nanoscale</i> , <b>2021</b> , 13, 18596-18607	7.7	1
420	Multi-biological combined system: A mechanistic approach for removal of multiple heavy metals. <i>Chemosphere</i> , <b>2021</b> , 276, 130018	8.4	2
419	Ultrathin Leaf-Shaped CuO Nanosheets Based Sensor Device for Enhanced Hydrogen Sulfide Gas Sensing Application. <i>Chemosensors</i> , <b>2021</b> , 9, 221	4	1
418	Direct sunlight-driven enhanced photocatalytic performance of VO nanorods/ graphene oxide nanocomposites for the degradation of Victoria blue dye. <i>Environmental Research</i> , <b>2021</b> , 199, 111369	7.9	5
417	p-CuO/n-ZnO Heterojunction Structure for the Selective Detection of Hydrogen Sulphide and Sulphur Dioxide Gases: A Theoretical Approach. <i>Coatings</i> , <b>2021</b> , 11, 1200	2.9	3

416	Synthesis of porous 2D layered nickel oxide-reduced graphene oxide (NiO-rGO) hybrid composite for the efficient electrochemical detection of epinephrine in biological fluid. <i>Environmental Research</i> , <b>2021</b> , 200, 111366	7.9	7
415	Adsorptive removal of antibiotic ofloxacin in aqueous phase using rGO-MoS heterostructure. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 417, 125982	12.8	8
414	CdO-ZnO nanorices for enhanced and selective formaldehyde gas sensing applications. <i>Environmental Research</i> , <b>2021</b> , 200, 111377	7.9	13
413	Justifying benzoselenadiazole acceptor core as organic semiconductor for stable bulk-heterojunction organic solar cells at ambient temperature. <i>Journal of Materiomics</i> , <b>2021</b> , 7, 1112-1121	6.7	1
412	Enhanced NO <sub>2</sub> gas sensor device based on supramolecularly assembled polyaniline/silver oxide/graphene oxide composites. <i>Ceramics International</i> , <b>2021</b> , 47, 25696-25707	5.1	11
411	Controlled Growth of WO <sub>3</sub> Pyramidal Thin Film via Hot-Filament Chemical Vapor Deposition: Electrochemical Detection of Ethylenediamine. <i>Chemosensors</i> , <b>2021</b> , 9, 257	4	0
410	MnO <sub>2</sub> Nanoparticles Anchored Multi Walled Carbon Nanotubes as Potential Anode Materials for Lithium Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2021</b> , 21, 5296-5301	1.3	1
409	Tetracyanonickelate (II)/KOH/reduced graphene oxide fabricated carbon felt for mediated electron transfer type electrochemical sensor for efficient detection of NO gas at room temperature. <i>Environmental Research</i> , <b>2021</b> , 201, 111591	7.9	3
408	Sustainable removal of Ni(II) from waste water by freshly isolated fungal strains. <i>Chemosphere</i> , <b>2021</b> , 282, 130871	8.4	9
407	Influence of gamma-irradiation on the optical and structural properties of Se <sub>85</sub> Te <sub>15</sub> -xBi <sub>x</sub> nano-thin chalcogenide films. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 188, 109659	2.5	1
406	Influence of minority charge carrier lifetime and concentration on crystalline silicon solar cells based on double antireflection coating: A simulation study. <i>Optical Materials</i> , <b>2021</b> , 121, 111500	3.3	4
405	Refined optoelectronic properties of silicon nanowires for improving photovoltaic properties of crystalline solar cells: a simulation study. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 2784-2795	2.1	6
404	An Effective D-BA Type Donor Material Based on 4-Fluorobenzoylacetonitrile Core Unit for Bulk Heterojunction Organic Solar Cells. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 646	2.6	2
403	Aluminum Doped ZnO Nanorods for Enhanced Phenylhydrazine Chemical Sensor Applications. <i>Science of Advanced Materials</i> , <b>2021</b> , 13, 2483-2488	2.3	2
402	Cauliflower-Shaped ZnO Nanostructure for Enhanced NO <sub>2</sub> Gas Sensor Application. <i>Science of Advanced Materials</i> , <b>2021</b> , 13, 2358-2363	2.3	2
401	Three-Dimensional Graphene-Based Foams with Greater Electron Transferring Areas Deriving High Gas Sensitivity. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 13234-13245	5.6	2
400	In Situ Construction of the Coral-like Polyaniline on the Aligned Silicon Nanowire Arrays for Silicon Substrate On-chip Supercapacitors. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 11792-11802	6.1	2
399	BiWO <sub>4</sub> /C-Dots/TiO <sub>2</sub> : A Novel Z-Scheme Photocatalyst for the Degradation of Fluoroquinolone Levofloxacin from Aqueous Medium. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	31

398	Visible-Light Driven Effective Photocatalytic Degradation of Methylene Blue Dye Using Perforated Curly ZnNiO Nanosheets. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 5759-5764	1.3	
397	Exploration of fulvic acid as a functional excipient in line with the regulatory requirement. <i>Environmental Research</i> , <b>2020</b> , 187, 109642	7.9	5
396	Surface Modification of Bentonite with Polymer Brushes and Its Application as an Efficient Adsorbent for the Removal of Hazardous Dye Orange I. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
395	Electrical properties of Ga-doped ZnO nanowires/Si heterojunction diode. <i>Materials Express</i> , <b>2020</b> , 10, 794-801	1.3	6
394	New energetic indandione based planar donor for stable and efficient organic solar cells. <i>Solar Energy</i> , <b>2020</b> , 201, 649-657	6.8	7
393	A stable gel electrolyte based on poly butyl acrylate (PBA)-co-poly acrylonitrile (PAN) for solid-state dye-sensitized solar cells. <i>Chemical Physics Letters</i> , <b>2020</b> , 754, 137756	2.5	18
392	□AgVO <sub>3</sub> nanowires/TiO <sub>2</sub> nanoparticles heterojunction assembly with improved visible light driven photocatalytic decomposition of hazardous pollutants and mechanism insight. <i>Separation and Purification Technology</i> , <b>2020</b> , 251, 117271	8.3	8
391	Underlying effects of diiodooctane as additive on the performance of bulk heterojunction organic solar cells based small organic molecule of isatin-core moiety. <i>Synthetic Metals</i> , <b>2020</b> , 261, 116304	3.6	6
390	Iron-Doped Titanium Dioxide Nanoparticles As Potential Scaffold for Hydrazine Chemical Sensor Applications. <i>Coatings</i> , <b>2020</b> , 10, 182	2.9	8
389	Synthesis and electrochemical properties of Ge <sup>4+</sup> ions-modified VO <sub>2</sub> (paramontroseite). <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 3795-3802	2.1	2
388	Synthesis of Iron Oxide@Pt Core-Shell Nanoparticles for Reductive Conversion of Cr(VI) to Cr(III) and Antibacterial Studies. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 918-923	1.3	5
387	Effect of Nickel Doping on the Properties of Hydroxyapatite Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 2482-2487	1.3	4
386	Development of Ethanol Gas Sensor Using □Fe <sub>2</sub> O <sub>3</sub> Nanocubes Synthesized by Hydrothermal Process. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2020</b> , 15, 59-64	1.3	6
385	Development and Characterization of Solar Simulator for Solar Cells. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2020</b> , 15, 720-724	1.3	5
384	NO <sub>x</sub> Gas Sensing Properties of Fe-Doped ZnO Nanoparticles. <i>Science of Advanced Materials</i> , <b>2020</b> , 12, 908-914	2.3	12
383	Communication□Ultra-Small NiO Nanoparticles Grown by Low-Temperature Process for Electrochemical Application. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 167517	3.9	8
382	Immobilization interaction between xenobiotic and <i>Bjerkandera adusta</i> for the biodegradation of atrazine. <i>Chemosphere</i> , <b>2020</b> , 257, 127060	8.4	12
381	Bioremediation potential of novel fungal species isolated from wastewater for the removal of lead from liquid medium. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 18, 100757	7	16

380	Fern shaped La <sub>2</sub> O <sub>3</sub> nanostructures as potential scaffold for efficient hydroquinone chemical sensing application. <i>Ceramics International</i> , <b>2020</b> , 46, 5141-5148	5.1	14
379	Fabrication and in-vitro biocompatibility of freeze-dried CTS-nHA and CTS-nBG scaffolds for bone regeneration applications. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 149, 1-10	7.9	21
378	Identification and characterization of cadmium resistant fungus isolated from contaminated site and its potential for bioremediation. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 17, 100604	7	15
377	Visible-Light Driven Photocatalytic Degradation of Eosin Yellow (EY) Dye Based on NiO-WO <sub>3</sub> Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 924-933	1.3	16
376	Sunlight-Driven Photocatalytic Degradation of Methyl Orange Based on Bismuth Ferrite (BiFeO <sub>3</sub> ) Heterostructures Composed of Interconnected Nanosheets. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 1851-1858	1.3	8
375	Vertically Arranged Zinc Oxide Nanorods as Antireflection Layer for Crystalline Silicon Solar Cell: A Simulation Study of Photovoltaic Properties. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6062	2.6	11
374	Effective photocatalytic dye degradation using low temperature grown zinc oxide nanostructures. <i>Materials Letters</i> , <b>2020</b> , 281, 128609	3.3	2
373	Influence of Incorporated Barium Ion on the Physio-Chemical Properties of Zinc Oxide Nanodisks Synthesized via a Sonochemical Process. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 5452-5457 <sup>13</sup>	1.3	2
372	Ultrasensitive and selective label-free aptasensor for the detection of penicillin based on nanoporous PtTi/graphene oxide-Fe <sub>3</sub> O <sub>4</sub> /MWCNT-Fe <sub>3</sub> O <sub>4</sub> nanocomposite. <i>Microchemical Journal</i> , <b>2020</b> , 158, 105270	4.8	13
371	Evaluation of novel indigenous fungal consortium for enhanced bioremediation of heavy metals from contaminated sites. <i>Environmental Technology and Innovation</i> , <b>2020</b> , 20, 101050	7	32
370	Structural, Optical and Magnetic Properties of ZnCoO Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 5525-5532	1.3	1
369	Enhanced Photocatalytic Performance of SnSiO Nanoparticles and Their Reduced Graphene Oxide (rGO) Nanocomposite. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 5426-5432	1.3	3
368	All-Dry Transferred ReS Nanosheets for Ultrasensitive Room-Temperature NO Sensing under Visible Light Illumination. <i>ACS Sensors</i> , <b>2020</b> , 5, 3172-3181	9.2	17
367	Planar D-BA Configured Dimethoxy Vinylbenzene Based Small Organic Molecule for Solution-Processed Bulk Heterojunction Organic Solar Cells. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 5743	2.6	3
366	Effect of Synthesis Temperature on the Morphologies, Optical and Electrical Properties of MgO Nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 2488-2494	1.3	8
365	In Vitro Bioadsorption of Cd <sup>2+</sup> Ions: Adsorption Isotherms, Mechanism, and an Insight to Mycoremediation. <i>Processes</i> , <b>2020</b> , 8, 1085	2.9	3
364	2D Nanomaterial-Based Surface Plasmon Resonance Sensors for Biosensing Applications. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	24
363	Benzoselenadiazole-core asymmetric D-A-A small molecule for solution processed bulk heterojunction organic solar cells. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12100-12111	4.5	3

- 362 A symmetric benzoselenadiazole based DAD small molecule for solution processed bulk-heterojunction organic solar cells. *Journal of Industrial and Engineering Chemistry*, **2020**, 81, 309-316<sup>6.3</sup> 14
- 361 Reduced graphene/nanostructured cobalt oxide nanocomposite for enhanced electrochemical performance of supercapacitor applications. *Journal of Colloid and Interface Science*, **2020**, 558, 68-77 9.3 26
- 360 Investigation of newly designed asymmetric chromophore in view of power conversion efficiency improvements for organic solar cells. *Materials Letters*, **2020**, 260, 126865 3.3 6
- 359 An efficient chemical sensor based on CeO<sub>2</sub> nanoparticles for the detection of acetylacetone chemical. *Journal of Electroanalytical Chemistry*, **2020**, 864, 114089 4.1 21
- 358 Toward a high performance asymmetric hybrid capacitor by electrode optimization. *Inorganic Chemistry Frontiers*, **2019**, 6, 2824-2831 6.8 30
- 357 Synergy of CO Response and Aggregation-Induced Emission in a Block Copolymer: A Facile Way To "See" Cancer Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 37077-37083 9.5 12
- 356 A Rapid Synthesis of Mesoporous Mn<sub>2</sub>O<sub>3</sub> Nanoparticles for Supercapacitor Applications. *Coatings*, **2019**, 9, 631 2.9 16
- 355 Solvent-free graphene liquids: Promising candidates for lubricants without the base oil. *Journal of Colloid and Interface Science*, **2019**, 542, 159-167 9.3 79
- 354 Polydopamine-Based Surface Modification of ZnO Nanoparticles on Sericin/Polyvinyl Alcohol Composite Film for Antibacterial Application. *Molecules*, **2019**, 24, 4.8 10
- 353 Smoke sensing applications of Brij 58 functionalized Praseodymium oxide (Pr<sub>6</sub>O<sub>11</sub>) nanostructures. *Sensors and Actuators B: Chemical*, **2019**, 297, 126628 8.5 3
- 352 Protein (bovine serum albumin) driven copper selenide and copper telluride nanostructures: structural, optical and electrical properties. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 11317-11326 2.1 1
- 351 Recent Advances and Perspectives of Carbon-Based Nanostructures as Anode Materials for Li-ion Batteries. *Materials*, **2019**, 12, 3.5 67
- 350 Highly Sensitive Picric Acid Chemical Sensor Based on Samarium (Sm) Doped ZnO Nanorods. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 3637-3642 1.3 5
- 349 Ytterbium-Doped ZnO Flowers Based Phenyl Hydrazine Chemical Sensor. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 4199-4204 1.3 7
- 348 Nitroaniline chemi-sensor based on bitter gourd shaped ytterbium oxide (Yb<sub>2</sub>O<sub>3</sub>) doped zinc oxide (ZnO) nanostructures. *Ceramics International*, **2019**, 45, 13825-13831 5.1 19
- 347 Solution processed bulk heterojunction organic solar cells using small organic semiconducting materials based on fluorene core unit. *Optical Materials*, **2019**, 91, 425-432 3.3 9
- 346 Impact of porous Mn<sub>3</sub>O<sub>4</sub> nanostructures on the performance of rechargeable lithium ion battery: Excellent capacity and cyclability. *Solid State Ionics*, **2019**, 336, 31-38 3.3 11
- 345 Cross-linking of dialdehyde carboxymethyl cellulose with silk sericin to reinforce sericin film for potential biomedical application. *Carbohydrate Polymers*, **2019**, 212, 403-411 10.3 42



344	Biosynthesis, Characterization and Biological Activities of Silver Nanoparticles from Benth. Methanolic Leaf Extract. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 4109-4115	1.3	6
343	Rapid Growth of TiO <sub>2</sub> Nanoflowers via Low-Temperature Solution Process: Photovoltaic and Sensing Applications. <i>Materials</i> , <b>2019</b> , 12,	3.5	15
342	Furosemide-Tetramethylammonium Bromide Interactions in Aqueous Dimethylsulfoxide Solutions: Physicochemical Studies. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2019</b> , 233, 413-430	3.1	4
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340	Direct Growth of Flower-Shaped ZnO Nanostructures on FTO Substrate for Dye-Sensitized Solar Cells. <i>Crystals</i> , <b>2019</b> , 9, 405	2.3	8
339	Synthesis, Characterization, Photocatalytic and Sensing Properties of Mn-Doped ZnO Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 8095-8103	1.3	8
338	Spiro-bifluorene core based hole transporting material with graphene oxide modified CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> for inverted planar heterojunction solar cells. <i>Electrochimica Acta</i> , <b>2019</b> , 319, 885-894	6.7	12
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331	Biomass-derived nitrogen-doped carbon quantum dots: highly selective fluorescent probe for detecting Fe ions and tetracyclines. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 539, 332-341	9.3	259
330	Iron Oxide Nanoparticles as Potential Scaffold for Photocatalytic and Sensing Applications. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 2695-2701	1.3	4
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216	Ce-doped ZnO nanoparticles for efficient photocatalytic degradation of direct red-23 dye. <i>Ceramics International</i> , <b>2015</b> , 41, 7773-7782	5.1	112
215	Zinc Oxide Nanostructures for NO Gas-Sensor Applications: A Review. <i>Nano-Micro Letters</i> , <b>2015</b> , 7, 97-120	9.5	480
214	Spindles shaped ZnO modified glassy carbon electrode for the selective monitoring of piperidine. <i>Materials Letters</i> , <b>2015</b> , 148, 188-191	3.3	9
213	An electrochemical sensing platform based on hollow mesoporous ZnO nanoglobules modified glassy carbon electrode: Selective detection of piperidine chemical. <i>Chemical Engineering Journal</i> , <b>2015</b> , 270, 564-571	14.7	25
212	Solution processed ZnO rectangular prism as an effective photoanode material for dye sensitized solar cells. <i>Materials Letters</i> , <b>2015</b> , 147, 119-122	3.3	10
211	Effect of annealing temperature on the properties and photocatalytic efficiencies of ZnO nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 648, 46-52	5.7	59
210	Highly porous ZnO nanosheets self-assembled in rosette-like morphologies for dye-sensitized solar cell application. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 7961-7970	3.6	15
209	High sensitivity Schottky junction diode based on monolithically grown aligned polypyrrole nanofibers: Broad range detection of m-dihydroxybenzene. <i>Analytica Chimica Acta</i> , <b>2015</b> , 886, 165-74	6.6	7
208	Electric-field induced layer-by-layer assembly technique with single component for construction of conjugated polymer films. <i>RSC Advances</i> , <b>2015</b> , 5, 58499-58503	3.7	3
207	Study on photocatalytic activity of ZnO nanodisks for the degradation of Rhodamine B dye. <i>Materials Letters</i> , <b>2015</b> , 159, 265-268	3.3	30
206	Fe <sub>2</sub> O <sub>3</sub> hexagonal cones synthesized from the leaf extract of <i>Azadirachta indica</i> and its thermal catalytic activity. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 7105-7111	3.6	31
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204	Catalytic thermal decomposition of ammonium perchlorate and combustion of composite solid propellants over green synthesized CuO nanoparticles. <i>Thermochimica Acta</i> , <b>2015</b> , 614, 110-115	2.9	45
203	Template-free growth of well-crystalline Fe <sub>2</sub> O <sub>3</sub> nanopeanuts with enhanced visible-light driven photocatalytic properties. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 457, 345-52	9.3	29
202	TiO <sub>2</sub> quantum dots for the photocatalytic degradation of indigo carmine dye. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 650, 193-198	5.7	67
201	Towards design of metal oxide free perovskite solar cell paradigm: Materials processing and enhanced device performance. <i>Chemical Engineering Journal</i> , <b>2015</b> , 281, 599-605	14.7	6



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197	Visible-light-driven photocatalytic properties of simply synthesized Iron(III)oxide nanourchins. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 451, 93-100	9.3	24
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193	Sunlight-driven photocatalytic degradation of non-steroidal anti-inflammatory drug based on TiO <sub>2</sub> quantum dots. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 459, 257-263	9.3	52
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190	Supercapacitors with ultrahigh energy density based on mesoporous carbon nanofibers: Enhanced double-layer electrochemical properties. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 653, 212-218	5.7	46
189	Electrochemical enzyme-less urea sensor based on nano-tin oxide synthesized by hydrothermal technique. <i>Chemico-Biological Interactions</i> , <b>2015</b> , 242, 45-9	5	34
188	Supramolecularly Modified Graphene for Ultrafast Responsive and Highly Stable Humidity Sensor. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 28640-28647	3.8	46
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77	Influence of seed layer treatment on low temperature grown ZnO nanotubes: Performances in dye sensitized solar cells. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 1111-1116	6.7	35
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