

# Ahmad Umar

## 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.

567  
papers

18,128  
citations

69  
h-index

107  
g-index

618  
ext. papers

21,068  
ext. citations

3.8  
avg, IF

7.34  
L-index

#	Paper	IF	Citations
567	Unloading of hazardous Cr and Tannic Acid from real and synthetic waste water by novel fungal consortia. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 26, 102230	7	2
566	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
565	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
564	Gamma-ray attenuation properties and fast neutron removal cross-section of Cu <sub>2</sub> CdSn <sub>3</sub> S <sub>8</sub> and binary sulfide compounds (Cu/Cd/Sn S) using phy-X/PSD software. <i>Radiation Physics and Chemistry</i> , <b>2022</b> , 193, 109989	2.5	1
563	Transformation of solid plastic waste to activated carbon fibres for wastewater treatment.. <i>Chemosphere</i> , <b>2022</b> , 133692	8.4	4
562	Analysis of the Radiation Attenuation Parameters of Cu <sub>2</sub> HgI <sub>4</sub> , Ag <sub>2</sub> HgI <sub>4</sub> , and (Cu/Ag/Hg I) Semiconductor Compounds. <i>Crystals</i> , <b>2022</b> , 12, 276	2.3	0
561	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
560	Mechanistic and analytical understanding of biological immobilization of chromium metal ions from waste-sites. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107498	6.8	0
559	Effective removal of Pb(II) and Ni(II) ions by <i>Bacillus cereus</i> and <i>Bacillus pumilus</i> : An experimental and mechanistic approach.. <i>Environmental Research</i> , <b>2022</b> , 113337	7.9	1
558	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
557	Sustainable agronomic response of carbon quantum dots on <i>Allium sativum</i> : Translocation, physiological responses and alternations in chromosomal aberrations. <i>Environmental Research</i> , <b>2022</b> , 113559	7.9	0
556	Supramolecularly assembled isonicotinamide/reduced graphene oxide nanocomposite for room-temperature NO <sub>2</sub> gas sensor. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 102066	7	2
555	Enhanced sunlight-driven photocatalytic activity of SnO <sub>2</sub> -Sb <sub>2</sub> O <sub>3</sub> composite towards emerging contaminant degradation in water. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 162935	5.7	4
554	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
553	Realizing high performance flexible supercapacitors by electrode modification.. <i>RSC Advances</i> , <b>2021</b> , 11, 39045-39050	3.7	2
552	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
551	Enhanced photoresponsivity of anatase titanium dioxide (TiO <sub>2</sub> )/nitrogen-doped graphene quantum dots (N-GQDs) heterojunction-based photodetector. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 1354	8.7	3

550	Gas sensor device for high-performance ethanol sensing using $\text{MnO}_2$ nanoparticles. <i>Materials Letters</i> , <b>2021</b> , 286, 129232	3.3	12
549	Methylene blue intercalated layered $\text{MnO}_2$ 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
548	Anodic stripping voltammetry analysis of gold nanoparticles functionalized one-dimensional single polypyrrole nanowire for arsenic sensing. <i>Surfaces and Interfaces</i> , <b>2021</b> , 23, 100895	4.1	4
547	Cu-BTC metal organic framework (MOF) derived Cu-doped $\text{TiO}_2$ nanoparticles and their use as visible light active photocatalyst for the decomposition of ofloxacin (OFX) antibiotic and antibacterial activity. <i>Advanced Powder Technology</i> , <b>2021</b> , 32, 1350-1361	4.6	9
546	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
545	Ni Foam Substrates Modified with a $\text{ZnCo}_2\text{O}_4$ Nanowire-Coated $\text{Ni}(\text{OH})_2$ Nanosheet Electrode for Hybrid Capacitors and Electrocatalysts. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 5461-5468	5.6	16
544	Urchin like $\text{CuO}$ 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
543	Selective ethanol gas sensing performance of flower-shaped $\text{CuO}$ composed of thin nanoplates. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 18565-18579	2.1	3
542	Carbon Nanodots as a Potential Transport Layer for Boosting Performance of All-Inorganic Perovskite Nanocrystals-Based Photodetector. <i>Crystals</i> , <b>2021</b> , 11, 717	2.3	5
541	The co-modification of $\text{MoS}_2$ and $\text{CdS}$ on $\text{TiO}_2$ nanotube array for improved photoelectrochemical properties. <i>Ionics</i> , <b>2021</b> , 27, 4371-4381	2.7	0
540	$\text{MnO}_2$ Nanowires as Potential Scaffolds for a High-Performance Formaldehyde Gas Sensor Device. <i>Coatings</i> , <b>2021</b> , 11, 860	2.9	5
539	Highly Sensitive and Selective Eco-Toxic 4-Nitrophenol Chemical Sensor Based on Ag-Doped $\text{ZnO}$ Nanoflowers Decorated with Nanosheets. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1
538	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
537	Advances in Responsively Conductive Polymer Composites and Sensing Applications. <i>Polymer Reviews</i> , <b>2021</b> , 61, 157-193	14	47
536	Investigation of glass forming ability, linear and non-linear optical properties of Ge-Se-Te-Sb thin films. <i>Chemical Physics</i> , <b>2021</b> , 541, 111021	2.3	12
535	Effect of cerium ions in Ce-Doped $\text{ZnO}$ nanostructures on their photocatalytic and picric acid chemical sensing. <i>Ceramics International</i> , <b>2021</b> , 47, 3089-3098	5.1	17
534	Hydrothermally regulating phase composition of $\text{TiO}_2$ nanocrystals toward high photocatalytic activity. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 850, 156653	5.7	48
533	Cubic shaped hematite ( $\text{Fe}_2\text{O}_3$ ) micro-structures composed of stacked nanosheets for rapid ethanol sensor application. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 326, 128851	8.5	17

532	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
531	An insight into improvement of room temperature formaldehyde sensitivity for graphene-based gas sensors. <i>Microchemical Journal</i> , <b>2021</b> , 160, 105607	4.8	9
530	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
529	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
528	Photocatalytic and fluorescent chemical sensing applications of La-doped ZnO nanoparticles. <i>Chemical Papers</i> , <b>2021</b> , 75, 1555-1566	1.9	12
527	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
526	Gamma-ray attenuation, fast neutron removal cross-section and build up factor of Cu <sub>2</sub> MnGe[S, Se, Te] <sub>4</sub> semiconductor compounds: Novel approach. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 179, 109248	2.5	6
525	Synthesis, structural and pharmacological exploration of 2-(3,5-dimethyl-1H-pyrazol-1-yl)-acetophenone oximes and their silver complexes. <i>Polyhedron</i> , <b>2021</b> , 195, 114972	2.7	2
524	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
523	Distinctive Solvatochromic Response of Fluorescent Carbon Dots Derived from Different Components of Aegle Marmelos Plant. <i>Engineered Science</i> , <b>2021</b> ,	3.8	5
522	Silica-Based Bioactive Glasses and Their Applications in Hard Tissue Regeneration: A Review. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	16
521	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
520	Multi-biological combined system: A mechanistic approach for removal of multiple heavy metals. <i>Chemosphere</i> , <b>2021</b> , 276, 130018	8.4	2
519	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
518	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
517	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
516	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
515	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

514	CdO-ZnO nanorices for enhanced and selective formaldehyde gas sensing applications. <i>Environmental Research</i> , <b>2021</b> , 200, 111377	7.9	13
513	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
512	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
511	Sustainable removal of Ni(II) from waste water by freshly isolated fungal strains. <i>Chemosphere</i> , <b>2021</b> , 282, 130871	8.4	9
510	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
509	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
508	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
507	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
506	Binder-Free Electrode Based on ZnO Nanorods Directly Grown on Aluminum Substrate for High Performance Supercapacitors. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	6
505	BiWO <sub>3</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
504	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	
503	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
502	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
501	Electrical properties of Ga-doped ZnO nanowires/Si heterojunction diode. <i>Materials Express</i> , <b>2020</b> , 10, 794-801	1.3	6
500	Synergy of CO-response and aggregation induced emission in a small molecule: renewable liquid and solid CO chemosensors with high sensitivity and visibility. <i>Analyst, The</i> , <b>2020</b> , 145, 3528-3534	5	2
499	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
498	Iron-Doped Titanium Dioxide Nanoparticles As Potential Scaffold for Hydrazine Chemical Sensor Applications. <i>Coatings</i> , <b>2020</b> , 10, 182	2.9	8
497	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

496	Growth of n-Ga doped ZnO nanowires interconnected with disks over p-Si substrate and their heterojunction diode application. <i>Materials Express</i> , <b>2020</b> , 10, 21-28	1.3	2
495	Temperature-dependent heterojunction device characteristics of n-ZnO nanorods/p-Si assembly. <i>Materials Express</i> , <b>2020</b> , 10, 29-36	1.3	2
494	Growth of amorphous, anatase and rutile phase TiO <sub>2</sub> thin films on Pt/TiO <sub>2</sub> /SiO <sub>2</sub> /Si (SSTOP) substrate for resistive random access memory (ReRAM) device application. <i>Ceramics International</i> , <b>2020</b> , 46, 16310-16320	5.1	7
493	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
492	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
491	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
490	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
489	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
488	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
487	Removal of Cr (VI) from aqueous solution using VO <sub>2</sub> (B) nanoparticles. <i>Chemical Physics Letters</i> , <b>2020</b> , 739, 136934	2.5	10
486	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
485	Removal of fluoroquinolone drug, levofloxacin, from aqueous phase over iron based MOFs, MIL-100(Fe). <i>Journal of Solid State Chemistry</i> , <b>2020</b> , 281, 121029	3.3	59
484	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
483	Silver doped manganese oxide-carbon nanotube nanocomposite for enhanced dye-sequestration: Isotherm studies and RSM modelling approach. <i>Ceramics International</i> , <b>2020</b> , 46, 10309-10319	5.1	23
482	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
481	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
480	Square disks-based crossed architectures of SnO <sub>2</sub> for ethanol gas sensing applications: An experimental and theoretical investigation. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 304, 127352	8.5	22
479	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

478	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	1.3	2
477	Solid-state synthesis of Ag-doped PANI nanocomposites for their end-use as an electrochemical sensor for hydrogen peroxide and dopamine. <i>Electrochimica Acta</i> , <b>2020</b> , 363, 137158	6.7	29
476	Corrosion inhibition of carbon steel by three kinds of expired cephalosporins in 0.1M H <sub>2</sub> SO <sub>4</sub> . <i>Journal of Molecular Liquids</i> , <b>2020</b> , 320, 114295	6	10
475	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
474	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
473	Structural, Optical and Magnetic Properties of ZnCoO Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 5525-5532	1.3	1
472	Trapping of oil molecules in clathrates: Oil trapping mechanism, soil composition and thermal studies. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 319, 114169	6	0
471	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
470	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
469	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
468	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
467	2D Nanomaterial-Based Surface Plasmon Resonance Sensors for Biosensing Applications. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	24
466	Efficient H <sub>2</sub> gas sensor based on 2D SnO <sub>2</sub> disks: Experimental and theoretical studies. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 26388-26401	6.7	27
465	Reduced graphene/nanostructured cobalt oxide nanocomposite for enhanced electrochemical performance of supercapacitor applications. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 558, 68-77	9.3	26
464	VO <sub>2</sub> (M)@CeO <sub>2</sub> core-shell nanospheres for thermochromic smart windows and photocatalytic applications. <i>Ceramics International</i> , <b>2020</b> , 46, 986-995	5.1	17
463	An efficient chemical sensor based on CeO <sub>2</sub> nanoparticles for the detection of acetylacetone chemical. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 864, 114089	4.1	21
462	Toward a high performance asymmetric hybrid capacitor by electrode optimization. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 2824-2831	6.8	30
461	Synergy of CO Response and Aggregation-Induced Emission in a Block Copolymer: A Facile Way To "See" Cancer Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37077-37083	9.5	12

460	Solvent-free graphene liquids: Promising candidates for lubricants without the base oil. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 542, 159-167	9.3	79
459	Polydopamine-Based Surface Modification of ZnO Nanoparticles on Sericin/Polyvinyl Alcohol Composite Film for Antibacterial Application. <i>Molecules</i> , <b>2019</b> , 24,	4.8	10
458	Phase modulation in nanocrystalline vanadium di-oxide (VO <sub>2</sub> ) nanostructures using citric acid via one pot hydrothermal method. <i>Ceramics International</i> , <b>2019</b> , 45, 18452-18461	5.1	12
457	Smoke sensing applications of Brij 58 functionalized Praseodymium oxide (Pr <sub>6</sub> O <sub>11</sub> ) nanostructures. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 297, 126628	8.5	3
456	Synthesis and characterizations of luminescent copper oxide nanoparticles: Toxicological profiling and sensing applications. <i>Ceramics International</i> , <b>2019</b> , 45, 15025-15035	5.1	21
455	Protein (bovine serum albumin) driven copper selenide and copper telluride nanostructures: structural, optical and electrical properties. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 11317-11326	2.1	1
454	Recent Advances and Perspectives of Carbon-Based Nanostructures as Anode Materials for Li-ion Batteries. <i>Materials</i> , <b>2019</b> , 12,	3.5	67
453	Highly Sensitive Picric Acid Chemical Sensor Based on Samarium (Sm) Doped ZnO Nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 3637-3642	1.3	5
452	An investigation on photoconductivity of non-stoichiometric CuZnSn(S, Se) <sub>4</sub> thin films for photovoltaic applications. <i>Physica Scripta</i> , <b>2019</b> , 94, 085807	2.6	3
451	Ytterbium-Doped ZnO Flowers Based Phenyl Hydrazine Chemical Sensor. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 4199-4204	1.3	7
450	Nitroaniline chemi-sensor based on bitter gourd shaped ytterbium oxide (Yb <sub>2</sub> O <sub>3</sub> ) doped zinc oxide (ZnO) nanostructures. <i>Ceramics International</i> , <b>2019</b> , 45, 13825-13831	5.1	19
449	Cross-linking of dialdehyde carboxymethyl cellulose with silk sericin to reinforce sericin film for potential biomedical application. <i>Carbohydrate Polymers</i> , <b>2019</b> , 212, 403-411	10.3	42
448	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
447	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
446	Furosemide-Cetyltrimethylammonium Bromide Interactions in Aqueous Dimethylsulfoxide Solutions: Physico-Chemical Studies. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2019</b> , 233, 413-430	3.1	4
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444	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
443	Bioinspired design of AgNPs embedded silk sericin-based sponges for efficiently combating bacteria and promoting wound healing. <i>Materials and Design</i> , <b>2019</b> , 180, 107940	8.1	56



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319	Bismuth sulfide (Bi <sub>2</sub> S <sub>3</sub> ) nanotubes decorated TiO <sub>2</sub> nanoparticles heterojunction assembly for enhanced solar light driven photocatalytic activity. <i>Ceramics International</i> , <b>2016</b> , 42, 17551-17557	5.1	35
318	Graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) coated titanium oxide nanotube arrays with enhanced photo-electrochemical performance. <i>Dalton Transactions</i> , <b>2016</b> , 45, 12702-9	4.3	57
317	Ionic liquid and surfactant functionalized ZnO nanoadsorbent for Recyclable Proficient Adsorption of toxic dyes from waste water. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 224, 1294-1304	6	40

316	Cauliflower-shaped ZnO nanomaterials for electrochemical sensing and photocatalytic applications. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 463-472	6.7	27
315	Synthesis and characterization of alkali metal molybdates with high catalytic activity for dye degradation. <i>RSC Advances</i> , <b>2016</b> , 6, 54553-54563	3.7	12
314	1-butyl-3-methylimidazolium tetrafluoroborate functionalized ZnO nanoparticles for removal of toxic organic dyes. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 220, 1013-1021	6	25
313	Layered double hydroxide/graphene oxide hybrid incorporated polysulfone substrate for thin-film nanocomposite forward osmosis membranes. <i>RSC Advances</i> , <b>2016</b> , 6, 56599-56609	3.7	60
312	Effectiveness of HIV/AIDS educational intervention in increasing knowledge, attitude and practices for primary school teachers in some part of Africa. <i>HIV and AIDS Review</i> , <b>2016</b> , 15, 17-25	0.3	3
311	Fabrication and characterization of highly sensitive and selective arsenic sensor based on ultra-thin graphene oxide nanosheets. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 227, 29-34	8.5	53
310	Heterogeneous photocatalytic studies of analgesic and non-steroidal anti-inflammatory drugs. <i>Applied Catalysis A: General</i> , <b>2016</b> , 510, 134-155	5.1	70
309	Insight into calcification of <i>Synechocystis</i> sp. enhanced by extracellular carbonic anhydrase. <i>RSC Advances</i> , <b>2016</b> , 6, 29811-29817	3.7	6
308	Carbohydrate-surfactant interactions in aqueous and mixed organic solvents at various temperatures: Volumetric, compressibility and acoustical studies. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 218, 637-648	6	8
307	Synthesis and Characterization of Mimosa Pudica Leaves Shaped Iron Oxide Nanostructures for Ethanol Chemical Sensor Applications. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 2944-9	1.3	7
306	Significantly enhanced mechanical and electrical properties of epoxy nanocomposites reinforced with low loading of polyaniline nanoparticles. <i>RSC Advances</i> , <b>2016</b> , 6, 21187-21192	3.7	25
305	Hexagonal cadmium oxide nanodisks: Efficient scaffold for cyanide ion sensing and photo-catalytic applications. <i>Talanta</i> , <b>2016</b> , 153, 57-65	6.2	13
304	Platinum nanoparticles decorated carbon nanotubes for highly sensitive 2-nitrophenol chemical sensor. <i>Ceramics International</i> , <b>2016</b> , 42, 9257-9263	5.1	22
303	Surfactant functionalized tungsten oxide nanoparticles with enhanced photocatalytic activity. <i>Chemical Engineering Journal</i> , <b>2016</b> , 288, 423-431	14.7	25
302	Synthesis of cadmium sulfide nanosheets for smart photocatalytic and sensing applications. <i>Ceramics International</i> , <b>2016</b> , 42, 6601-6609	5.1	24
301	Intermolecular interactions of l-glutamine and l-histidine in aqueous solutions of metformin hydrochloride: Thermo-acoustic and optical properties. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 214, 390-399	6	13
300	The influence of Na species addition on the synthesis and catalytic activity of Na <sub>2</sub> Mo <sub>4</sub> O <sub>13</sub> /βMoO <sub>3</sub> as CWAO catalyst. <i>Catalysis Today</i> , <b>2016</b> , 278, 192-202	5.3	3
299	Facile synthesis of SnO <sub>2</sub> hollow microspheres composed of nanoparticles and their remarkable photocatalytic performance. <i>Materials Research Bulletin</i> , <b>2016</b> , 74, 284-290	5.1	24



298	Bismuth Sulphide (Bi <sub>2</sub> S <sub>3</sub> ) Nanotubes as an Efficient Photocatalyst for Methylene Blue Dye Degradation. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 266-272	0.8	18
297	Highly Sensitive Ethanol Gas Sensors Based on Ag-Doped ZnO Nanocones. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 241-246	0.8	9
296	Poly(Acrylic Acid)/Multi-Walled Carbon Nanotube Composites: Efficient Scaffold for Highly Sensitive 2-Nitrophenol Chemical Sensor. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 200-206	0.8	5
295	Enhanced Field Emission Properties of Aligned ZnO Nanowires. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 521-526	0.8	3
294	Morphology Controlled Synthesis of Co <sub>3</sub> O <sub>4</sub> Nanostructures for Hydrazine Chemical Sensor. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 634-640	0.8	6
293	Visible Light Driven Photo-Catalytic Degradation of Fluoroquinolone Antibiotic Drug Using Bi <sub>2</sub> WO <sub>6</sub> Spheres Composed of Fluffy Nanosheets. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 660-666	0.8	4
292	Typical Thin-Film Composite (TFC) Membranes Modified with Inorganic Nanomaterials for Forward Osmosis: A Review. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 906-916	0.8	10
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290	Iron Oxide Nanocubes for Photocatalytic Degradation and Antimicrobial Applications. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 1014-1019	0.8	8
289	Low-Temperature Grown ZnO Nanoflakes for Dye Sensitized Solar Cell Application. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 874-879	0.8	2
288	Synthesis of Sn-Doped ZnO Nanostructures for 4-Nitrophenol Chemical Sensor Application. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 827-832	0.8	7
287	Fabrication and Characterization of Highly Sensitive and Selective Glucose Biosensor Based on ZnO Decorated Carbon Nanotubes. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 853-858	0.8	3
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285	Anti-Oxidant Properties of Ficus religiosa L. Bark Extract on Human Keratinocytes. <i>Science of Advanced Materials</i> , <b>2016</b> , 8, 1221-1226	2.3	2
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69	Rapid synthesis and dye-sensitized solar cell applications of hexagonal-shaped ZnO nanorods. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 5358-5362	6.7	54
68	Growth of Comb-like ZnO Nanostructures for Dye-sensitized Solar Cells Applications. <i>Nanoscale Research Letters</i> , <b>2009</b> , 4, 1004-1008	5	78
67	MgO polyhedral nanocages and nanocrystals based glucose biosensor. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1353-1357	5.1	62
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65	Development of amperometric glucose biosensor based on glucose oxidase co-immobilized with multi-walled carbon nanotubes at low potential. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 137, 327-333	8.5	103

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63	Enzymatic glucose biosensor based on flower-shaped copper oxide nanostructures composed of thin nanosheets. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 278-281	5.1	138
62	High-sensitive glutamate biosensor based on NADH at Lauth's violet/multiwalled carbon nanotubes composite film on gold substrates. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 1511-6	3.4	14
61	High Electrochemical Li Intercalation in Titanate Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 14034-14039	3.8	15
60	Ultra-sensitive hydrazine chemical sensor based on high-aspect-ratio ZnO nanowires. <i>Talanta</i> , <b>2009</b> , 77, 1376-80	6.2	108
59	Highly-sensitive cholesterol biosensor based on well-crystallized flower-shaped ZnO nanostructures. <i>Talanta</i> , <b>2009</b> , 78, 284-9	6.2	157
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52	Welcome to the Science of Advanced Materials. <i>Science of Advanced Materials</i> , <b>2009</b> , 1, 1-3	2.3	3
51	Structural and optical properties of ZnO nanostructures grown on silicon substrate by thermal evaporation process. <i>Materials Letters</i> , <b>2008</b> , 62, 167-171	3.3	15
50	Growth and structural properties of CuO urchin-like and sheet-like structures prepared by simple solution process. <i>Materials Letters</i> , <b>2008</b> , 62, 1659-1662	3.3	29
49	Growth mechanism and optical properties of aligned hexagonal ZnO nanoprisms synthesized by noncatalytic thermal evaporation. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 4088-94	5.1	38
48	Low-Temperature Synthesis of Flower-Shaped CuO Nanostructures by Solution Process: Formation Mechanism and Structural Properties. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 5729-5735	3.8	155
47	Flower-shaped CuO nanostructures: Structural, photocatalytic and XANES studies. <i>Catalysis Communications</i> , <b>2008</b> , 10, 11-16	3.2	142

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44	Temperature-dependant non-catalytic growth of ultraviolet-emitting ZnO nanostructures on silicon substrate by thermal evaporation process. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 463, 516-521	5.7	32
43	Optical and field emission properties of single-crystalline aligned ZnO nanorods grown on aluminium substrate. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 065412	3	28
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34	Low-temperature growth and properties of flower-shaped - Ni(OH) <sub>2</sub> and NiO structures composed of thin nanosheets networks. <i>Superlattices and Microstructures</i> , <b>2008</b> , 44, 216-222	2.8	34
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30	Growth of aligned ZnO nanorods and nanopencils on ZnO/Si in aqueous solution: growth mechanism and structural and optical properties. <i>Nanotechnology</i> , <b>2007</b> , 18, 115603	3.4	211
29	Ultraviolet-emitting javelin-like ZnO nanorods by thermal evaporation: Growth mechanism, structural and optical properties. <i>Chemical Physics Letters</i> , <b>2007</b> , 440, 110-115	2.5	43

28	Effect of hydrogen pretreatment combined with growth temperature on the morphologies of ZnO nanostructures: Structural and optical properties. <i>Journal of Crystal Growth</i> , <b>2007</b> , 306, 52-61	1.6	10
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25	Two-step growth of hexagonal-shaped ZnO nanowires and nanorods and their properties. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 4522-8	1.3	12
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23	Ni64+Sn132 fusion within the density-constrained time-dependent Hartree-Fock formalism. <i>Physical Review C</i> , <b>2007</b> , 76,	2.7	44
22	Sea-urchin-like ZnO nanostructures on Si by oxidation of Zn metal powders: Structural and optical properties. <i>Superlattices and Microstructures</i> , <b>2006</b> , 39, 145-152	2.8	16
21	Evolution of ZnO nanostructures on silicon substrate by vapor-solid mechanism: Structural and optical properties. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 758-765	1.9	14
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14	ZnO nanosheet networks and hexagonal nanodiscs grown on silicon substrate: growth mechanism and structural and optical properties. <i>Nanotechnology</i> , <b>2006</b> , 17, 2174-2180	3.4	200
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8	Catalyst-free large-quantity synthesis of ZnO nanorods by a vapor-solid growth mechanism: Structural and optical properties. <i>Journal of Crystal Growth</i> , <b>2005</b> , 282, 131-136	1.6	171
7	Growth and formation mechanism of sea urchin-like ZnO nanostructures on Si. <i>Korean Journal of Chemical Engineering</i> , <b>2005</b> , 22, 489-493	2.8	18
6	Flower-shaped ZnO nanostructures obtained by cyclic feeding chemical vapour deposition: structural and optical properties. <i>Nanotechnology</i> , <b>2005</b> , 16, 2462-8	3.4	100
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3	Heterobimetallic Complexes Containing Cu and Si. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2003</b> , 33, 1459-1468		5
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