Ahmad Umar

List of Publications by Citations

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	Zinc Oxide Nanostructures for NO Gas-Sensor Applications: A Review. *Nano-Micro Letters*, **2015**, 7, 97-120	29.5	480
566	Hierarchical porous carbon aerogel derived from bagasse for high performance supercapacitor electrode. *Nanoscale*, **2014**, 6, 12120-9	7.7	443
565	Zinc oxide nanonail based chemical sensor for hydrazine detection. *Chemical Communications*, **2008**, 1665-8	6.2	401
564	Hierarchical SnO2 nanostructures made of intermingled ultrathin nanosheets for environmental remediation, smart gas sensor, and supercapacitor applications. *ACS Applied Materials & Interfaces*, **2014**, 6, 2174-84	9.5	393
563	Antimicrobial properties of ZnO nanomaterials: A review. *Ceramics International*, **2017**, 43, 3940-3961	5.1	266
562	Biomass-derived nitrogen-doped carbon quantum dots: highly selective fluorescent probe for detecting Fe ions and tetracyclines. *Journal of Colloid and Interface Science*, **2019**, 539, 332-341	9.3	259
561	Growth of aligned ZnO nanorods and nanopencils on ZnO/Si in aqueous solution: growth mechanism and structural and optical properties. *Nanotechnology*, **2007**, 18, 115603	3.4	211
560	ZnO nanosheet networks and hexagonal nanodiscs grown on silicon substrate: growth mechanism and structural and optical properties. *Nanotechnology*, **2006**, 17, 2174-2180	3.4	200
559	Ultraselective and sensitive detection of xylene and toluene for monitoring indoor air pollution using Cr-doped NiO hierarchical nanostructures. *Nanoscale*, **2013**, 5, 7066-73	7.7	196
558	A critical review on the heterogeneous catalytic oxidation of elemental mercury in flue gases. *Environmental Science & Technology*, **2013**, 47, 10813-23	10.3	192
557	Highly effective Fe-doped TiO2 nanoparticles photocatalysts for visible-light driven photocatalytic degradation of toxic organic compounds. *Journal of Colloid and Interface Science*, **2015**, 450, 213-223	9.3	185
556	Structural and optical properties of single-crystalline ZnO nanorods grown on silicon by thermal evaporation. *Nanotechnology*, **2006**, 17, 4072-7	3.4	173
555	Catalyst-free large-quantity synthesis of ZnO nanorods by a vapor–solid growth mechanism: Structural and optical properties. *Journal of Crystal Growth*, **2005**, 282, 131-136	1.6	171
554	Ultra-sensitive cholesterol biosensor based on low-temperature grown ZnO nanoparticles. *Electrochemistry Communications*, **2009**, 11, 118-121	5.1	170
553	Metal oxide hollow nanostructures: Fabrication and Li storage performance. *Journal of Power Sources*, **2013**, 238, 376-387	8.9	163
552	Highly-sensitive cholesterol biosensor based on well-crystallized flower-shaped ZnO nanostructures. *Talanta*, **2009**, 78, 284-9	6.2	157
551	Low-Temperature Synthesis of Flower-Shaped CuO Nanostructures by Solution Process: Formation Mechanism and Structural Properties. *Journal of Physical Chemistry C*, **2008**, 112, 5729-5735	3.8	155

550	Pt nanoparticles decorated SnO2 nanoneedles for efficient CO gas sensing applications. *Sensors and Actuators B: Chemical*, **2018**, 256, 656-664	8.5	147
549	Flower-shaped CuO nanostructures: Structural, photocatalytic and XANES studies. *Catalysis Communications*, **2008**, 10, 11-16	3.2	142
548	Enzymatic glucose biosensor based on flower-shaped copper oxide nanostructures composed of thin nanosheets. *Electrochemistry Communications*, **2009**, 11, 278-281	5.1	138
547	Comprehensive investigation of CO2 adsorption on MgAlCO3 LDH-derived mixed metal oxides. *Journal of Materials Chemistry A*, **2013**, 1, 12782	13	130
546	High sensitive and low-concentration sulfur dioxide (SO2) gas sensor application of heterostructure NiO-ZnO nanodisks. *Sensors and Actuators B: Chemical*, **2019**, 298, 126870	8.5	129
545	Aligned hexagonal coaxial-shaped ZnO nanocolumns on steel alloy by thermal evaporation. *Applied Physics Letters*, **2006**, 88, 173120	3.4	129
544	ZnO nano-mushrooms for photocatalytic degradation of methyl orange. *Materials Letters*, **2013**, 97, 100-103	3.0	126
543	Selenium nanomaterials: An overview of recent developments in synthesis, properties and potential applications. *Progress in Materials Science*, **2016**, 83, 270-329	42.2	121
542	Bi2O3 nanorods: An efficient sunlight active photocatalyst for degradation of Rhodamine B and 2,4,6-trichlorophenol. *Ceramics International*, **2015**, 41, 3355-3364	5.1	116
541	Ce-doped ZnO nanoparticles for efficient photocatalytic degradation of direct red-23 dye. *Ceramics International*, **2015**, 41, 7773-7782	5.1	112
540	Facile synthesis and optical properties of Co3O4 nanostructures by the microwave route. *Superlattices and Microstructures*, **2011**, 49, 416-421	2.8	110
539	CuO nanosheets as potential scaffolds for gas sensing applications. *Sensors and Actuators B: Chemical*, **2017**, 250, 24-31	8.5	108
538	Photocatalysis from UV/Vis to Near-Infrared Light: Towards Full Solar-Light Spectrum Activity. *ChemCatChem*, **2015**, 7, 559-573	5.2	108
537	Ultra-sensitive hydrazine chemical sensor based on high-aspect-ratio ZnO nanowires. *Talanta*, **2009**, 77, 1376-80	6.2	108
536	Catalyst-free synthesis of ZnO nanowires on Si by oxidation of Zn powders. *Journal of Crystal Growth*, **2005**, 277, 471-478	1.6	108
535	Metal organic framework (MOF) porous octahedral nanocrystals of Cu-BTC: Synthesis, properties and enhanced adsorption properties. *Materials Research Bulletin*, **2019**, 109, 124-133	5.1	105
534	Ethanol chemi-sensor: Evaluation of structural, optical and sensing properties of CuO nanosheets. *Materials Letters*, **2011**, 65, 1400-1403	3.3	105
533	Development of amperometric glucose biosensor based on glucose oxidase co-immobilized with multi-walled carbon nanotubes at low potential. *Sensors and Actuators B: Chemical*, **2009**, 137, 327-333	8.5	103

532	Polypyrrole-poly(3,4-ethylenedioxythiophene)-Ag (PPy-PEDOT-Ag) nanocomposite films for label-free electrochemical DNA sensing. *Biosensors and Bioelectronics*, **2013**, 47, 133-40	11.8	101
531	Flower-shaped ZnO nanostructures obtained by cyclic feeding chemical vapour deposition: structural and optical properties. *Nanotechnology*, **2005**, 16, 2462-8	3.4	100
530	Chemical Sensing Applications of ZnO Nanomaterials. *Materials*, **2018**, 11,	3.5	97
529	Photocatalytic degradation of Eriochrome Black T dye using well-crystalline anatase TiO2 nanoparticles. *Journal of Alloys and Compounds*, **2013**, 581, 392-397	5.7	93
528	Large-scale synthesis of ZnO balls made of fluffy thin nanosheets by simple solution process: structural, optical and photocatalytic properties. *Journal of Colloid and Interface Science*, **2011**, 363, 521-8	9.3	93
527	Growth and properties of Ag-doped ZnO nanoflowers for highly sensitive phenyl hydrazine chemical sensor application. *Talanta*, **2012**, 93, 257-63	6.2	89
526	Potassium Hydroxide Activated and Nitrogen Doped Graphene with Enhanced Supercapacitive Behavior. *Science of Advanced Materials*, **2018**, 10, 937-949	2.3	88
525	Ce-doped ZnO nanorods for the detection of hazardous chemical. *Sensors and Actuators B: Chemical* , **2012**, 173, 72-78	8.5	87
524	Well-crystalline porous ZnO-SnO2 nanosheets: an effective visible-light driven photocatalyst and highly sensitive smart sensor material. *Talanta*, **2015**, 131, 490-8	6.2	84
523	Development of highly sensitive and selective ethanol sensor based on lance-shaped CuO nanostructures. *Materials and Design*, **2016**, 105, 16-24	8.1	84
522	The visible light-driven photocatalytic degradation of Alizarin red S using Bi-doped TiO2 nanoparticles. *New Journal of Chemistry*, **2014**, 38, 3127-3136	3.6	82
521	Ultra-high sensitive ammonia chemical sensor based on ZnO nanopencils. *Talanta*, **2012**, 89, 155-61	6.2	81
520	ZnO nanonails: synthesis and their application as glucose biosensor. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 3216-21	1.3	80
519	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
518	Removal of water contaminants by iron oxide nanomaterials. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 627-43	1.3	79
517	Growth of Comb-like ZnO Nanostructures for Dye-sensitized Solar Cells Applications. *Nanoscale Research Letters*, **2009**, 4, 1004-1008	5	78
516	Metal clusters activated SnO2 thin film for low level detection of NH3 gas. *Sensors and Actuators B: Chemical*, **2014**, 194, 410-418	8.5	77
515	Synthesis, characterization and acetone gas sensing applications of Ag-doped ZnO nanoneedles. *Ceramics International*, **2017**, 43, 6765-6770	5.1	76

514	ZnO nanoparticles induces cell death in malignant human T98G gliomas, KB and non-malignant HEK cells. *Journal of Biomedical Nanotechnology*, **2013**, 9, 1181-9	4	76
513	ZnO doped SnO2 nanoparticles heterojunction photo-catalyst for environmental remediation. *Journal of Alloys and Compounds*, **2015**, 653, 327-333	5.7	75
512	Growth and properties of well-crystalline cerium oxide (CeO2) nanoflakes for environmental and sensor applications. *Journal of Colloid and Interface Science*, **2015**, 454, 61-8	9.3	75
511	NiCo2O4 nanowire based flexible electrode materials for asymmetric supercapacitors. *New Journal of Chemistry*, **2018**, 42, 7399-7406	3.6	74
510	Optical and electrical properties of ZnO nanowires grown on aluminium foil by non-catalytic thermal evaporation. *Nanotechnology*, **2007**, 18, 175606	3.4	74
509	Tungsten oxide (WO3) nanoparticles as scaffold for the fabrication of hydrazine chemical sensor. *Sensors and Actuators B: Chemical*, **2014**, 196, 231-237	8.5	73
508	Photocatalytic degradation of Alizarin Red S using simply synthesized ZnO nanoparticles. *Materials Letters*, **2013**, 106, 385-389	3.3	73
507	ZnO nanoparticles induce oxidative stress in Cloudman S91 melanoma cancer cells. *Journal of Biomedical Nanotechnology*, **2013**, 9, 441-9	4	73
506	Growth, properties and dye-sensitized solar cells□pplications of ZnO nanorods grown by low-temperature solution process. *Superlattices and Microstructures*, **2009**, 45, 529-534	2.8	73
505	Synthesis of CeO2□ZnO nanoellipsoids as potential scaffold for the efficient detection of 4-nitrophenol. *Sensors and Actuators B: Chemical*, **2014**, 202, 1044-1050	8.5	71
504	Star-shaped ZnO nanostructures on silicon by cyclic feeding chemical vapor deposition. *Journal of Crystal Growth*, **2005**, 277, 479-484	1.6	71
503	Heterogeneous photocatalytic studies of analgesic and non-steroidal anti-inflammatory drugs. *Applied Catalysis A: General*, **2016**, 510, 134-155	5.1	70
502	Sonophotocatalytic degradation of methyl orange using ZnO nano-aggregates. *Journal of Alloys and Compounds*, **2015**, 629, 167-172	5.7	70
501	Growth of Highly c-Axis-Oriented ZnO Nanorods on ZnO/Glass Substrate: Growth Mechanism, Structural, and Optical Properties. *Journal of Physical Chemistry C*, **2009**, 113, 14715-14720	3.8	70
500	CeO2ZnO hexagonal nanodisks: Efficient material for the degradation of direct blue 15 dye and its simulated dye bath effluent under solar light. *Journal of Alloys and Compounds*, **2015**, 620, 67-73	5.7	69
499	Fabrication and characterization of highly sensitive and selective sensors based on porous NiO nanodisks. *Sensors and Actuators B: Chemical*, **2018**, 259, 604-615	8.5	69
498	A highly sensitive ammonia chemical sensor based on □Fe2O3nanoellipsoids. *Journal Physics D: Applied Physics*, **2011**, 44, 425401	3	68
497	Recent Advances and Perspectives of Carbon-Based Nanostructures as Anode Materials for Li-ion Batteries. *Materials*, **2019**, 12,	3.5	67

496	TiO2 quantum dots for the photocatalytic degradation of indigo carmine dye. *Journal of Alloys and Compounds*, **2015**, 650, 193-198	5.7	67
495	Enhanced photocatalytic degradation of harmful dye and phenyl hydrazine chemical sensing using ZnO nanourchins. *Chemical Engineering Journal*, **2015**, 262, 588-596	14.7	66
494	Facile synthesis of CdS/TiO2 nanocomposite and their catalytic activity for ofloxacin degradation under visible illumination. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 360, 34-43	4.7	66
493	Hydrothermally grown ZnO nanoflowers for environmental remediation and clean energy applications. *Materials Research Bulletin*, **2012**, 47, 2407-2414	5.1	66
492	Photocatalytic degradation of the antibiotic levofloxacin using highly crystalline TiO2 nanoparticles. *New Journal of Chemistry*, **2014**, 38, 3220-3226	3.6	65
491	High performance cholesterol sensor based on ZnO nanotubes grown on Si/Ag electrodes. *Electrochemistry Communications*, **2014**, 38, 4-7	5.1	64
490	Synthesis and Characterization of Iron Oxide Nanoparticles for Phenyl Hydrazine Sensor Applications. *Sensor Letters*, **2014**, 12, 97-101	0.9	63
489	Architecture-controlled synthesis of MxOy (M = Ni, Fe, Cu) microfibres from seaweed biomass for high-performance lithium ion battery anodes. *Journal of Materials Chemistry A*, **2015**, 3, 22708-22715	13	62
488	2D Sn-doped ZnO ultrathin nanosheet networks for enhanced acetone gas sensing application. *Ceramics International*, **2017**, 43, 2418-2423	5.1	62
487	MgO polyhedral nanocages and nanocrystals based glucose biosensor. *Electrochemistry Communications*, **2009**, 11, 1353-1357	5.1	62
486	Highly sensitive p-nitrophenol chemical sensor based on crystalline □MnO2 nanotubes. *New Journal of Chemistry*, **2014**, 38, 4420-4426	3.6	61
485	Visible-light-driven photocatalytic and chemical sensing properties of SnS2 nanoflakes. *Talanta*, **2013**, 114, 183-90	6.2	61
484	Ag-doped ZnO nanoellipsoids: potential scaffold for photocatalytic and sensing applications. *Talanta*, **2015**, 137, 204-13	6.2	61
483	Precipitation Sequence of Middle Al Concentration Alloy Using the Inversion Algorithm and Microscopic Phase Field Model. *Science of Advanced Materials*, **2018**, 10, 1793-1804	2.3	61
482	Layered double hydroxide/graphene oxide hybrid incorporated polysulfone substrate for thin-film nanocomposite forward osmosis membranes. *RSC Advances*, **2016**, 6, 56599-56609	3.7	60
481	Zinc oxide nanostructure-based dye-sensitized solar cells. *Journal of Materials Science*, **2017**, 52, 4743-4785	4.5	59
480	Effect of annealing temperature on the properties and photocatalytic efficiencies of ZnO nanoparticles. *Journal of Alloys and Compounds*, **2015**, 648, 46-52	5.7	59
479	Removal of fluoroquinolone drug, levofloxacin, from aqueous phase over iron based MOFs, MIL-100(Fe). *Journal of Solid State Chemistry*, **2020**, 281, 121029	3.3	59

478	Morphology and chemical composition dependent synthesis and electrochemical properties of MnO2-based nanostructures for efficient hydrazine detection. *Sensors and Actuators B: Chemical*, **2016**, 224, 878-884	8.5	58
477	Three-Dimensional Crumpled Graphene-Based Nanosheets with Ultrahigh NO Gas Sensibility. *ACS Applied Materials & Interfaces*, **2017**, 9, 11819-11827	9.5	58
476	Efficient photocatalytic degradation of brilliant green using Sr-doped TiO2 nanoparticles. *Ceramics International*, **2015**, 41, 3533-3540	5.1	58
475	Graphitic carbon nitride (g-C3N4) coated titanium oxide nanotube arrays with enhanced photo-electrochemical performance. *Dalton Transactions*, **2016**, 45, 12702-9	4.3	57
474	Sno2 quantum dots as novel platform for electrochemical sensing of cadmium. *Electrochimica Acta*, **2015**, 169, 97-102	6.7	56
473	Bioinspired design of AgNPs embedded silk sericin-based sponges for efficiently combating bacteria and promoting wound healing. *Materials and Design*, **2019**, 180, 107940	8.1	56
472	ZnO nanostructured thin films: Depositions, properties and applications□A review. *Materials Express*, **2015**, 5, 3-23	1.3	55
471	CoO nanowire@NiO nanosheet arrays for high performance asymmetric supercapacitors. *Dalton Transactions*, **2018**, 47, 5687-5694	4.3	55
470	Synthesis of polypropylene/Mg3Al□X (X = CO32□NO3□Cl□SO42□)LDH nanocomposites using a solvent mixing method: thermal and melt rheological properties. *Journal of Materials Chemistry A*, **2013**, 1, 9928	13	55
469	Rapid synthesis and dye-sensitized solar cell applications of hexagonal-shaped ZnO nanorods. *Electrochimica Acta*, **2009**, 54, 5358-5362	6.7	54
468	Enhanced visible light driven photocatalytic application of Ag 2 O decorated ZnO nanorods heterostructures. *Separation and Purification Technology*, **2017**, 183, 341-349	8.3	53
467	Fabrication and characterization of highly sensitive and selective arsenic sensor based on ultra-thin graphene oxide nanosheets. *Sensors and Actuators B: Chemical*, **2016**, 227, 29-34	8.5	53
466	Low-temperature synthesis of □Fe2O3 hexagonal nanoparticles for environmental remediation and smart sensor applications. *Talanta*, **2013**, 116, 1060-6	6.2	53
465	Supramolecular fabrication of multilevel graphene-based gas sensors with high NO2 sensibility. *Nanoscale*, **2015**, 7, 10259-66	7.7	52
464	Sunlight-driven photocatalytic degradation of non-steroidal anti-inflammatory drug based on TiO□ quantum dots. *Journal of Colloid and Interface Science*, **2015**, 459, 257-263	9.3	52
463	Hybrid ZnO/ZnS nanoforests as the electrode materials for high performance supercapacitor application. *Dalton Transactions*, **2015**, 44, 2409-15	4.3	52
462	Reduced graphene oxide-CdS heterostructure: An efficient fluorescent probe for the sensing of Ag(I) and sunset yellow and a visible-light responsive photocatalyst for the degradation of levofloxacin drug in aqueous phase. *Applied Catalysis B: Environmental*, **2019**, 245, 143-158	21.8	52
461	Solar light driven photocatalytic degradation of levofloxacin using TiO2/carbon-dot nanocomposites. *New Journal of Chemistry*, **2018**, 42, 7445-7456	3.6	51

460	Ultra-high sensitive hydrazine chemical sensor based on low-temperature grown ZnO nanoparticles. *Electrochimica Acta*, **2012**, 69, 128-133	6.7	51
459	Structural and optical properties of CuO layered hexagonal discs synthesized by a low-temperature hydrothermal process. *Journal Physics D: Applied Physics*, **2011**, 44, 155405	3	51
458	Ultraviolet-Emitting ZnO Nanostructures on Steel Alloy Substrates: Growth and Properties. *Crystal Growth and Design*, **2008**, 8, 2741-2747	3.5	51
457	Visible-light driven photocatalytic degradation of brilliant green dye based on cobalt tungstate (CoWO 4) nanoparticles. *Materials Chemistry and Physics*, **2018**, 211, 335-342	4.4	50
456	Enhanced Photocatalytic Activity of B, N-Codoped TiO by a New Molten Nitrate Process. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 839-849	1.3	50
455	Photoluminescent C-dots: An overview on the recent development in the synthesis, physiochemical properties and potential applications. *Journal of Alloys and Compounds*, **2018**, 748, 818-853	5.7	49
454	Mimicking a Dog's Nose: Scrolling Graphene Nanosheets. *ACS Nano*, **2018**, 12, 2521-2530	16.7	49
453	Microwave assisted rapid growth of Mg(OH)2 nanosheet networks for ethanol chemical sensor application. *Journal of Alloys and Compounds*, **2012**, 519, 4-8	5.7	49
452	ZnO nanorods based hydrazine sensors. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 4686-91	1.3	49
451	Perforated Co3O4 nanoneedles assembled in chrysanthemum-like Co3O4 structures for ultra-high sensitive hydrazine chemical sensor. *Sensors and Actuators B: Chemical*, **2016**, 235, 457-465	8.5	49
450	Highly sensitive hydrazine chemical sensor based on mono-dispersed rapidly synthesized PEG-coated ZnS nanoparticles. *Talanta*, **2011**, 85, 2411-6	6.2	48
449	Hydrothermally regulating phase composition of TiO2 nanocrystals toward high photocatalytic activity. *Journal of Alloys and Compounds*, **2021**, 850, 156653	5.7	48
448	Two-dimensional ytterbium oxide nanodisks based biosensor for selective detection of urea. *Biosensors and Bioelectronics*, **2017**, 98, 254-260	11.8	47
447	Facile synthesis and photocatalytic activity of cocoon-shaped CuO nanostructures. *Materials Letters* , **2015**, 156, 138-141	3.3	47
446	Visible light driven photocatalytic degradation of fluoroquinolone levofloxacin drug using Ag2O/TiO2 quantum dots: a mechanistic study and degradation pathway. *New Journal of Chemistry*, **2017**, 41, 12079-12090	3.6	47
445	Advances in Responsively Conductive Polymer Composites and Sensing Applications. *Polymer Reviews*, **2021**, 61, 157-193	14	47
444	Supramolecularly Modified Graphene for Ultrafast Responsive and Highly Stable Humidity Sensor. *Journal of Physical Chemistry C*, **2015**, 119, 28640-28647	3.8	46
443	Rapid Solar-Light Driven Superior Photocatalytic Degradation of Methylene Blue Using MoSZnO Heterostructure Nanorods Photocatalyst. *Materials*, **2018**, 11,	3.5	46

442	Surface functionalized selenium nanoparticles for biomedical applications. *Journal of Biomedical Nanotechnology*, **2014**, 10, 3004-42	4	45
441	Fabrication of Highly Sensitive Non-Enzymatic Glucose Biosensor Based on ZnO Nanorods. *Science of Advanced Materials*, **2011**, 3, 901-906	2.3	45
440	NiO nanodisks: Highly efficient visible-light driven photocatalyst, potential scaffold for seed germination of Vigna Radiata and antibacterial properties. *Journal of Cleaner Production*, **2018**, 190, 563-576	10.3	44
439	Pulse laser deposited nanostructured ZnO thin films: a review. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 1911-30	1.3	44
438	Synthesis of ZnO nanowires on Si substrate by thermal evaporation method without catalyst: Structural and optical properties. *Korean Journal of Chemical Engineering*, **2006**, 23, 499-504	2.8	44
437	Ni64+Sn132 fusion within the density-constrained time-dependent Hartree-Fock formalism. *Physical Review C*, **2007**, 76,	2.7	44
436	Structural and optical properties of ZnO micro-spheres and cages by oxidation of metallic Zn powder. *Superlattices and Microstructures*, **2006**, 39, 238-246	2.8	44
435	Impact of organic interlayer anions on the CO2 adsorption performance of Mg-Al layered double hydroxides derived mixed oxides. *Journal of Energy Chemistry*, **2017**, 26, 346-353	12	43
434	Zinc oxide nanocones as potential scaffold for the fabrication of ultra-high sensitive hydrazine chemical sensor. *Ceramics International*, **2015**, 41, 3101-3108	5.1	43
433	Hierarchical Fe3O4 Core–Shell Layered Double Hydroxide Composites as Magnetic Adsorbents for Anionic Dye Removal from Wastewater. *European Journal of Inorganic Chemistry*, **2015**, 2015, 4182-4191	2.3	43
432	Ultraviolet-emitting javelin-like ZnO nanorods by thermal evaporation: Growth mechanism, structural and optical properties. *Chemical Physics Letters*, **2007**, 440, 110-115	2.5	43
431	Solar light driven photocatalytic degradation of Ofloxacin based on ultra-thin bismuth molybdenum oxide nanosheets. *Materials Research Bulletin*, **2018**, 99, 359-366	5.1	43
430	Highly sensitive optical ammonia gas sensor based on Sn Doped V2O5 Nanoparticles. *Materials Research Bulletin*, **2018**, 108, 266-274	5.1	43
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428	Europium-doped gadolinium oxide nanoparticles: A potential photoluminescencent probe for highly selective and sensitive detection of Fe3+ and Cr3+ ions. *Sensors and Actuators B: Chemical*, **2017**, 243, 579-588	8.5	41
427	Visible-light-driven photocatalytic properties of self assembled cauliflower-like AgCl/ZnO hierarchical nanostructures. *Journal of Molecular Catalysis A*, **2015**, 408, 189-201		41
426	Rose-like CuO nanostructures for highly sensitive glucose chemical sensor application. *Ceramics International*, **2015**, 41, 9468-9475	5.1	41
425	Ultra-sensitive ethanol sensor based on rapidly synthesized Mg(OH)2 hexagonal nanodisks. *Sensors and Actuators B: Chemical*, **2012**, 166-167, 97-102	8.5	41

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423	Ionic liquid and surfactant functionalized ZnO nanoadsorbent for Recyclable Proficient Adsorption of toxic dyes from waste water. *Journal of Molecular Liquids*, **2016**, 224, 1294-1304	6	40
422	Zinc Oxide Nanomaterials for Photocatalytic Degradation of Methyl Orange: A Review. *Nanoscience and Nanotechnology Letters*, **2014**, 6, 631-650	0.8	40
421	Development of Highly Sensitive and Selective Cholesterol Biosensor Based on Cholesterol Oxidase Co-Immobilized with □Fe2O3 Micro-Pine Shaped Hierarchical Structures. *Electrochimica Acta*, **2014**, 135, 396-403	6.7	39
420	Adsorption of acid red from dye wastewater by Zn2Al-NO3 LDHs and the resource of adsorbent sludge as nanofiller for polypropylene. *Journal of Alloys and Compounds*, **2014**, 587, 99-104	5.7	38
419	A robust enzymeless glucose sensor based on CuO nanoseed modified electrodes. *Dalton Transactions*, **2015**, 44, 12488-92	4.3	38
418	Growth mechanism and optical properties of aligned hexagonal ZnO nanoprisms synthesized by noncatalytic thermal evaporation. *Inorganic Chemistry*, **2008**, 47, 4088-94	5.1	38
417	Chemical and Pathogenic Cleanup of Wastewater Using Surface-Functionalized CeO2 Nanoparticles. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 6803-6816	8.3	37
416	Hydrothermal formation of N/Ti codoped multiphasic (brookite-anatase-rutile) TiO heterojunctions with enhanced visible light driven photocatalytic performance. *Dalton Transactions*, **2017**, 46, 15727-15735	4.3	37
415	Non-catalytic growth of high aspect-ratio ZnO nanowires by thermal evaporation. *Solid State Communications*, **2006**, 139, 447-451	1.6	37
414	Sm2O3-doped ZnO beech fern hierarchical structures for nitroaniline chemical sensor. *Ceramics International*, **2016**, 42, 16505-16511	5.1	37
413	Polypropylene/Mg3Al□artrazine LDH nanocomposites with enhanced thermal stability, UV absorption, and rheological properties. *RSC Advances*, **2013**, 3, 26017	3.7	36
412	Adsorption studies of cationic, anionic and azo-dyes via monodispersed Fe3O4 nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 3240-5	1.3	36
411	Synthesis and characterizations of Cd-doped ZnO multipods for environmental remediation application. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 8453-8	1.3	36
410	High performance hybrid supercapacitor based on hierarchical MoS2/Ni3S2 metal chalcogenide. *Chinese Chemical Letters*, **2019**, 30, 1105-1110	8.1	36
409	Custom designed metal anchored SnO2 sensor for□H2 detection. *International Journal of Hydrogen Energy*, **2017**, 42, 4597-4609	6.7	35
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