

Mohammed M Rahman

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437
papers

14,177
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61
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94
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470
ext. papers

16,372
ext. citations

4.7
avg, IF

7.49
L-index

#	Paper	IF	Citations
437	Zinc oxide nanonail based chemical sensor for hydrazine detection. <i>Chemical Communications</i> , 2008 , 166-168	14.7	401
436	Efficient detection and adsorption of cadmium(II) ions using innovative nano-composite materials. <i>Chemical Engineering Journal</i> , 2018 , 343, 118-127	14.7	290
435	Facile mercury detection and removal from aqueous media involving ligand impregnated conjugate nanomaterials. <i>Chemical Engineering Journal</i> , 2016 , 290, 243-251	14.7	258
434	Inorganic-organic based novel nano-conjugate material for effective cobalt(II) ions capturing from wastewater. <i>Chemical Engineering Journal</i> , 2017 , 324, 130-139	14.7	205
433	Exploration of CeO ₂ nanoparticles as a chemi-sensor and photo-catalyst for environmental applications. <i>Science of the Total Environment</i> , 2011 , 409, 2987-92	10.2	193
432	Ligand field effect for Dysprosium(III) and Lutetium(III) adsorption and EXAFS coordination with novel composite nanomaterials. <i>Chemical Engineering Journal</i> , 2017 , 320, 427-435	14.7	184
431	Ultra-sensitive cholesterol biosensor based on low-temperature grown ZnO nanoparticles. <i>Electrochemistry Communications</i> , 2009 , 11, 118-121	5.1	170
430	Highly-sensitive cholesterol biosensor based on well-crystallized flower-shaped ZnO nanostructures. <i>Talanta</i> , 2009 , 78, 284-9	6.2	157
429	Novel composite material for selective copper(II) detection and removal from aqueous media. <i>Journal of Molecular Liquids</i> , 2019 , 283, 772-780	6	154
428	Cleaning the arsenic(V) contaminated water for safe-guarding the public health using novel composite material. <i>Composites Part B: Engineering</i> , 2019 , 171, 294-301	10	145
427	Low-temperature growth of ZnO nanoparticles: photocatalyst and acetone sensor. <i>Talanta</i> , 2011 , 85, 943-9	6.2	144
426	Assessment of enhanced nitrite removal and monitoring using ligand modified stable conjugate materials. <i>Chemical Engineering Journal</i> , 2019 , 363, 64-72	14.7	142
425	Highly sensitive ethanol chemical sensor based on Ni-doped SnO ₂ nanostructure materials. <i>Biosensors and Bioelectronics</i> , 2011 , 28, 127-34	11.8	140
424	CuO codoped ZnO based nanostructured materials for sensitive chemical sensor applications. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1346-51	9.5	139
423	Enzymatic glucose biosensor based on flower-shaped copper oxide nanostructures composed of thin nanosheets. <i>Electrochemistry Communications</i> , 2009 , 11, 278-281	5.1	138
422	Offering an innovative composited material for effective lead(II) monitoring and removal from polluted water. <i>Journal of Cleaner Production</i> , 2019 , 231, 214-223	10.3	137
421	Introducing an alternate conjugated material for enhanced lead(II) capturing from wastewater. <i>Journal of Cleaner Production</i> , 2019 , 224, 920-929	10.3	137

4 ²⁰	Introducing an amine functionalized novel conjugate material for toxic nitrite detection and adsorption from wastewater. <i>Journal of Cleaner Production</i> , 2019 , 228, 778-785	10.3	133
4 ¹⁹	Role of ZnO-CeO ₂ Nanostructures as a Photo-catalyst and Chemi-sensor. <i>Journal of Materials Science and Technology</i> , 2011 , 27, 594-600	9.1	127
4 ¹⁸	Optimization of an innovative composited material for effective monitoring and removal of cobalt(II) from wastewater. <i>Journal of Molecular Liquids</i> , 2020 , 298, 112035	6	126
4 ¹⁷	Novel optical composite material for efficient vanadium(III) capturing from wastewater. <i>Journal of Molecular Liquids</i> , 2019 , 283, 704-712	6	121
4 ¹⁶	Fabrication of 4-aminophenol sensor based on hydrothermally prepared ZnO/Yb ₂ O ₃ nanosheets. <i>New Journal of Chemistry</i> , 2017 , 41, 9159-9169	3.6	119
4 ¹⁵	Arsenic sensor development based on modification with (E)-N [?] -(2-nitrobenzylidene)-benzenesulfonohydrazide: a real sample analysis. <i>New Journal of Chemistry</i> , 2019 , 43, 9066-9075	3.6	117
4 ¹⁴	Naked-eye lead(II) capturing from contaminated water using innovative large-pore facial composite materials. <i>Microchemical Journal</i> , 2020 , 154, 104585	4.8	117
4 ¹³	Non-enzymatic simultaneous detection of L-glutamic acid and uric acid using mesoporous Co ₃ O ₄ nanosheets. <i>RSC Advances</i> , 2016 , 6, 80511-80521	3.7	116
4 ¹²	Fabrication of Highly Sensitive Ethanol Chemical Sensor Based on Sm-Doped Co ₃ O ₄ Nanokernels by a Hydrothermal Method. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9503-9510	3.8	116
4 ¹¹	One-step wet-chemical synthesis of ternary ZnO/CuO/Co ₃ O ₄ nanoparticles for sensitive and selective melamine sensor development. <i>New Journal of Chemistry</i> , 2019 , 43, 4849-4858	3.6	113
4 ¹⁰	Detection of uric acid based on doped ZnO/Ag ₂ O/Co ₃ O ₄ nanoparticle loaded glassy carbon electrode. <i>New Journal of Chemistry</i> , 2019 , 43, 8651-8659	3.6	110
4 ⁰⁹	A lactate biosensor based on lactate dehydrogenase/nicotinamide adenine dinucleotide (oxidized form) immobilized on a conducting polymer/multiwall carbon nanotube composite film. <i>Analytical Biochemistry</i> , 2009 , 384, 159-65	3.1	108
4 ⁰⁸	Ultra-sensitive hydrazine chemical sensor based on high-aspect-ratio ZnO nanowires. <i>Talanta</i> , 2009 , 77, 1376-80	6.2	108
4 ⁰⁷	Trace electrochemical detection of Ni ²⁺ ions with bidentate N,N [?] -(ethane-1,2-diyl)bis(3,4-dimethoxybenzenesulfonamide) [EDBDMBS] as a chelating agent. <i>Inorganica Chimica Acta</i> , 2017 , 464, 157-166	2.7	107
4 ⁰⁶	Fabrication of cadmium ionic sensor based on (E)-4-Methyl-N [?] -(1-(pyridin-2-yl)ethylidene)benzenesulfonohydrazide (MPEBSH) by electrochemical approach. <i>Journal of Organometallic Chemistry</i> , 2017 , 827, 49-55	2.3	106
4 ⁰⁵	Ethanol chemi-sensor: Evaluation of structural, optical and sensing properties of CuO nanosheets. <i>Materials Letters</i> , 2011 , 65, 1400-1403	3.3	105
4 ⁰⁴	4-Hexylresorcinol sensor development based on wet-chemically prepared Co ₃ O ₄ @Er ₂ O ₃ nanorods: A practical approach. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 66, 446-455	6.3	105
4 ⁰³	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> , 2009 , 137, 327-333	8.5	103

402	Fabrication of ZnO nanoparticles based sensitive methanol sensor and efficient photocatalyst. <i>Applied Surface Science</i> , 2012 , 258, 7515-7522	6.7	97
401	Ligand based sustainable composite material for sensitive nickel(II) capturing in aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103591	6.8	96
400	Recent advances on oxygen reduction electrocatalysis: Correlating the characteristic properties of metal organic frameworks and the derived nanomaterials. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118570	21.8	85
399	Smart chemical sensor and active photo-catalyst for environmental pollutants. <i>Chemical Engineering Journal</i> , 2011 , 173, 178-184	14.7	83
398	Development of 3-methoxyaniline sensor probe based on thin Ag ₂ O@La ₂ O ₃ nanosheets for environmental safety. <i>New Journal of Chemistry</i> , 2019 , 43, 4620-4632	3.6	83
397	Multi-layered mesoporous TiO ₂ thin films with large pores and highly crystalline frameworks for efficient photoelectrochemical conversion. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1591-1599	13	81
396	Synthesis, characterizations, photocatalytic and sensing studies of ZnO nanocapsules. <i>Applied Surface Science</i> , 2011 , 258, 672-677	6.7	81
395	Highly sensitive formaldehyde chemical sensor based on hydrothermally prepared spinel ZnFe ₂ O ₄ nanorods. <i>Sensors and Actuators B: Chemical</i> , 2012 , 171-172, 932-937	8.5	80
394	ZnO nanonails: synthesis and their application as glucose biosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3216-21	1.3	80
393	Highly sensitive methanol chemical sensor based on undoped silver oxide nanoparticles prepared by a solution method. <i>Mikrochimica Acta</i> , 2012 , 178, 99-106	5.8	79
392	Ultrasensitive and selective 4-aminophenol chemical sensor development based on nickel oxide nanoparticles decorated carbon nanotube nanocomposites for green environment. <i>Journal of Environmental Sciences</i> , 2017 , 53, 27-38	6.4	78
391	Synthesis, characterization of silver nanoparticle embedded polyaniline tungstophosphate-nanocomposite cation exchanger and its application for heavy metal selective membrane. <i>Composites Part B: Engineering</i> , 2013 , 45, 1486-1492	10	75
390	Fabrication of highly sensitive acetone sensor based on sonochemically prepared as-grown Ag ₂ O nanostructures. <i>Chemical Engineering Journal</i> , 2012 , 192, 122-128	14.7	73
389	Hierarchical Cu ₂ S microsponges constructed from nanosheets for efficient photocatalysis. <i>Small</i> , 2013 , 9, 2702-8	11	72
388	Characterization and applications of as-grown Fe ₂ O ₃ nanoparticles prepared by hydrothermal method. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3789-3799	2.3	72
387	A nanoscale demonstration of hydrogen atom spillover and surface diffusion across silica using the kinetics of CO ₂ methanation catalyzed on spatially separate Pt and Co nanoparticles. <i>Nano Letters</i> , 2014 , 14, 4792-6	11.5	69
386	Ethanol sensor development based on ternary-doped metal oxides (CdO/ZnO/Yb ₂ O ₃) nanosheets for environmental safety. <i>RSC Advances</i> , 2017 , 7, 22627-22639	3.7	66
385	Electrochemical determination of olmesartan medoxomil using hydrothermally prepared nanoparticles composed SnO ₂ -Co ₃ O ₄ nanocubes in tablet dosage forms. <i>Talanta</i> , 2012 , 99, 924-31	6.2	66

384	Chloride ion sensors based on low-dimensional $\text{MnO}_2/\text{TiO}_2$ nanoparticles fabricated glassy carbon electrodes by simple IV technique. <i>Electrochimica Acta</i> , 2013 , 103, 143-150	6.7	66
383	Fabrication of selective chemical sensor with ternary ZnO/SnO/YbO nanoparticles. <i>Talanta</i> , 2017 , 170, 215-223	6.2	65
382	An assessment of zinc oxide nanosheets as a selective adsorbent for cadmium. <i>Nanoscale Research Letters</i> , 2013 , 8, 377	5	65
381	Highly sensitive and stable phenyl hydrazine chemical sensors based on CuO flower shapes and hollow spheres. <i>New Journal of Chemistry</i> , 2013 , 37, 1098	3.6	63
380	Synthesis, crystal structures, spectroscopic and nonlinear optical properties of chalcone derivatives: A combined experimental and theoretical study. <i>Journal of Molecular Structure</i> , 2017 , 1141, 142-156	3.4	62
379	MgO polyhedral nanocages and nanocrystals based glucose biosensor. <i>Electrochemistry Communications</i> , 2009 , 11, 1353-1357	5.1	62
378	Chemical sensor development based on polycrystalline gold electrode embedded low-dimensional Ag ₂ O nanoparticles. <i>Electrochimica Acta</i> , 2013 , 112, 422-430	6.7	61
377	Synthesis and environmental applications of cellulose/ZrO ₂ nanohybrid as a selective adsorbent for nickel ion. <i>Composites Part B: Engineering</i> , 2013 , 50, 253-258	10	61
376	Synthesis, crystal structures and spectroscopic properties of triazine-based hydrazone derivatives; a comparative experimental-theoretical study. <i>Molecules</i> , 2015 , 20, 5851-74	4.8	60
375	Mixed micellization between amphiphilic drug promethazine hydrochloride and cationic surfactant (conventional as well as gemini). <i>Journal of Molecular Liquids</i> , 2013 , 177, 19-25	6	60
374	Acetone sensor based on solvothermally prepared ZnO doped with CoO nanorods. <i>Mikrochimica Acta</i> , 2013 , 180, 675-685	5.8	60
373	Selective hydrazine sensor fabrication with facile low-dimensional Fe ₂ O ₃ /CeO ₂ nanocubes. <i>New Journal of Chemistry</i> , 2018 , 42, 10263-10270	3.6	59
372	Ultra-sensitive 2-nitrophenol detection based on reduced graphene oxide/ZnO nanocomposites. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 788, 66-73	4.1	58
371	Cd-doped SbO nanostructures modified glassy carbon electrode for efficient detection of melamine by electrochemical approach. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 631-636	11.8	58
370	Carbon black co-adsorbed ZnO nanocomposites for selective benzaldehyde sensor development by electrochemical approach for environmental safety. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 65, 300-308	6.3	58
369	Efficient hydroquinone sensor based on zinc, strontium and nickel based ternary metal oxide (TMO) composites by differential pulse voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 383-392	8.5	57
368	Hg Sensor Development Based on ()'-Nitrobenzylidene-Benzenesulfonohydrazide (NBBSH) Derivatives Fabricated on a Glassy Carbon Electrode with a Nafion Matrix. <i>ACS Omega</i> , 2017 , 2, 420-431	3.9	56
367	Fabrication of a methanol chemical sensor based on hydrothermally prepared Fe ₃ O ₄ -doped SnO ₂ nanocubes. <i>Talanta</i> , 2012 , 95, 18-24	6.2	56

366	Ultrasensitive and selective hydrazine sensor development based on Sn/ZnO nanoparticles. <i>RSC Advances</i> , 2016 , 6, 29342-29352	3.7	55
365	Cobalt doped antimony oxide nano-particles based chemical sensor and photo-catalyst for environmental pollutants. <i>Applied Surface Science</i> , 2012 , 261, 52-58	6.7	54
364	Helicobacter pylori infection in the young in Bangladesh: prevalence, socioeconomic and nutritional aspects. <i>International Journal of Epidemiology</i> , 1996 , 25, 894-8	7.8	54
363	Polyaniline/graphene/carbon nanotubes nanocomposites for sensing environmentally hazardous 4-aminophenol. <i>Nano Structures Nano Objects</i> , 2018 , 15, 63-74	5.6	53
362	A novel approach towards hydrazine sensor development using SrO/CNT nanocomposites. <i>RSC Advances</i> , 2016 , 6, 65338-65348	3.7	53
361	Amine modified tannin gel for adsorptive removal of Brilliant Green dye. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 1231-1241	6.8	53
360	Lead sensors development and antimicrobial activities based on graphene oxide/carbon nanotube/poly(O-toluidine) nanocomposite. <i>International Journal of Biological Macromolecules</i> , 2016 , 89, 198-205	7.9	52
359	Detection of aprepitant drug based on low-dimensional un-doped iron oxide nanoparticles prepared by a solution method. <i>Electrochimica Acta</i> , 2012 , 75, 164-170	6.7	51
358	Synthesis, crystal structure, spectroscopic and density functional theory (DFT) study of N-[3-anthracen-9-yl-1-(4-bromo-phenyl)-allylidene]-N-benzenesulfonylhydrazine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 142, 364-74	4.4	51
357	Efficient formaldehyde sensor development based on Cu-codoped ZnO nanomaterial by an electrochemical approach. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127541	8.5	51
356	Chemo-sensors development based on low-dimensional codoped Mn ₂ O ₃ -ZnO nanoparticles using flat-silver electrodes. <i>Chemistry Central Journal</i> , 2013 , 7, 60		50
355	Selective determination of gold(III) ion using CuO microsheets as a solid phase adsorbent prior by ICP-OES measurement. <i>Talanta</i> , 2013 , 104, 75-82	6.2	50
354	Special susceptible aqueous ammonia chemi-sensor: extended applications of novel UV-curable polyurethane-clay nanohybrid. <i>Talanta</i> , 2011 , 84, 1005-10	6.2	49
353	ZnO nanorods based hydrazine sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4686-91	1.3	49
352	Structural study, photoluminescence and photocatalytic properties of La ₂ O ₃ / Fe ₃ O ₄ / ZnO, AgO / NiO / ZnO and La ₂ O ₃ / AgO / ZnO nanocomposites. <i>Nano Structures Nano Objects</i> , 2017 , 10, 30-41	5.6	48
351	Fabrication of highly sensitive ethanol sensor based on doped nanostructure materials using tiny chips. <i>RSC Advances</i> , 2015 , 5, 63252-63263	3.7	48
350	Selective detection of toxic Pb(II) ions based on wet-chemically prepared nanosheets integrated CuO/ZnO nanocomposites. <i>Composites Part B: Engineering</i> , 2013 , 54, 215-223	10	48
349	3,4-Diaminotoluene sensor development based on hydrothermally prepared MnCoO nanoparticles. <i>Talanta</i> , 2018 , 176, 17-25	6.2	48

348	Wet-chemically prepared low-dimensional ZnO/AlO/CrO nanoparticles for xanthine sensor development using an electrochemical method.. <i>RSC Advances</i> , 2018 , 8, 12562-12572	3.7	47
347	Sensitive 1,2-dichlorobenzene chemi-sensor development based on solvothermally prepared FeO/CdO nanocubes for environmental safety. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 62, 392-400	6.3	46
346	Fabrication of chloroform sensor based on hydrothermally prepared low-dimensional Fe ₂ O ₃ nanoparticles. <i>Superlattices and Microstructures</i> , 2011 , 50, 369-376	2.8	46
345	Efficient Hg(II) ionic probe development based on one-step synthesized diethyl thieno[2,3-b]thiophene-2,5-dicarboxylate (DETTDC2) onto glassy carbon electrode. <i>Microchemical Journal</i> , 2020 , 152, 104291	4.8	46
344	Hydrazine sensors development based on a glassy carbon electrode modified with a nanostructured TiO ₂ films by electrochemical approach. <i>Mikrochimica Acta</i> , 2017 , 184, 2123-2129	5.8	45
343	Sensitive methanol sensor based on PMMA-G-CNTs nanocomposites deposited onto glassy carbon electrodes. <i>Talanta</i> , 2016 , 150, 71-80	6.2	45
342	Fabrication of an acetone sensor based on facile ternary MnO ₂ /Gd ₂ O ₃ /SnO ₂ nanosheets for environmental safety. <i>New Journal of Chemistry</i> , 2017 , 41, 9938-9946	3.6	45
341	Development of a highly-sensitive acetylcholine sensor using a charge-transfer technique on a smart biochip. <i>TrAC - Trends in Analytical Chemistry</i> , 2009 , 28, 196-203	14.6	45
340	Fabrication of a highly sensitive penicillin sensor based on charge transfer techniques. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1877-82	11.8	45
339	Efficient Bisphenol-A detection based on the ternary metal oxide (TMO) composite by electrochemical approaches. <i>Electrochimica Acta</i> , 2017 , 246, 597-605	6.7	44
338	Bilirubin sensor based on CuO-CdO composites deposited in a nafion/glassy carbon electrode matrixes. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 566-573	3.6	44
337	Development of selective and sensitive bicarbonate chemical sensor based on wet-chemically prepared CuO-ZnO nanorods. <i>Sensors and Actuators B: Chemical</i> , 2015 , 214, 82-91	8.5	44
336	Sensor development of 1,2 Dichlorobenzene based on polypyrrole/Cu-doped ZnO (PPY/CZO) nanocomposite embedded silver electrode and their antimicrobial studies. <i>International Journal of Biological Macromolecules</i> , 2017 , 98, 256-267	7.9	43
335	Fabrication of 1,4-dioxane sensor based on microwave assisted PANi-SiO nanocomposites. <i>Talanta</i> , 2019 , 193, 64-69	6.2	42
334	A glassy carbon electrode modified with Fe ₂ S ₃ -decorated CNT nanocomposites for uric acid sensor development: a real sample analysis. <i>RSC Advances</i> , 2017 , 7, 14649-14659	3.7	41
333	Preparation and characterization of PANI@G/CWO nanocomposite for enhanced 2-nitrophenol sensing. <i>Applied Surface Science</i> , 2018 , 433, 696-704	6.7	41
332	Fabrication of 1,2-dichlorobenzene sensor based on mesoporous MCM-41 material. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 562, 161-169	5.1	41
331	Development of selective Co ²⁺ ionic sensor based on various derivatives of benzenesulfonohydrazide (BSH) compound: An electrochemical approach. <i>Chemical Engineering Journal</i> , 2018 , 339, 133-143	14.7	40

330	2-Nitrophenol sensor-based wet-chemically prepared binary doped CoO/AlO nanosheets by an electrochemical approach.. <i>RSC Advances</i> , 2018 , 8, 960-970	3.7	40
329	A glutathione biosensor based on a glassy carbon electrode modified with CdO nanoparticle-decorated carbon nanotubes in a nafion matrix. <i>Mikrochimica Acta</i> , 2016 , 183, 3255-3263	5.8	40
328	Development of Creatine sensor based on antimony-doped tin oxide (ATO) nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 167-175	8.5	40
327	Fabrication of 3-methoxyphenol sensor based on Fe3O4 decorated carbon nanotube nanocomposites for environmental safety: Real sample analyses. <i>PLoS ONE</i> , 2017 , 12, e0177817	3.7	40
326	Sensitive and selective m-tolyl hydrazine chemical sensor development based on CdO nanomaterial decorated multi-walled carbon nanotubes. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 77, 309-316	6.3	39
325	Chemical sensor development based on poly(o-anisidine)silverizedMWCNT nanocomposites deposited on glassy carbon electrodes for environmental remediation. <i>RSC Advances</i> , 2015 , 5, 71370-71378	3.7	39
324	Copper-immobilized platinum electrocatalyst for the effective reduction of nitrate in a low conductive medium: Mechanism, adsorption thermodynamics and stability. <i>Applied Catalysis A: General</i> , 2014 , 478, 259-266	5.1	39
323	Development of highly-sensitive hydrazine sensor based on facile CoS2CNT nanocomposites. <i>RSC Advances</i> , 2016 , 6, 90470-90479	3.7	39
322	Structure based pharmacophore modeling, virtual screening, molecular docking and ADMET approaches for identification of natural anti-cancer agents targeting XIAP protein. <i>Scientific Reports</i> , 2021 , 11, 4049	4.9	39
321	Thiourea sensor development based on hydrothermally prepared CMO nanoparticles for environmental safety. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 586-592	11.8	39
320	Fabrication of selective l-glutamic acid sensor in electrochemical technique from wet-chemically prepared RuO2 doped ZnO nanoparticles. <i>Materials Chemistry and Physics</i> , 2020 , 251, 123029	4.4	38
319	Sensitive L-leucine sensor based on a glassy carbon electrode modified with SrO nanorods. <i>Mikrochimica Acta</i> , 2016 , 183, 3265-3273	5.8	38
318	High performance polyaniline/vanadyl phosphate (PANI//OPO4) nano composite sheets prepared by exfoliation/intercalation method for sensing applications. <i>European Polymer Journal</i> , 2016 , 75, 388-398	5.2	38
317	Hydrazine sensor based on silver nanoparticle-decorated polyaniline tungstophosphate nanocomposite for use in environmental remediation. <i>Mikrochimica Acta</i> , 2016 , 183, 1787-1796	5.8	38
316	Fabrication of a 2,4-dinitrophenol sensor based on Fe3O4@Ag@Ni nanomaterials and studies on their antibacterial properties. <i>New Journal of Chemistry</i> , 2018 , 42, 872-881	3.6	38
315	Development of Cd2+ sensor based on BZNA/Nafion/Glassy carbon electrode by electrochemical approach. <i>Chemical Engineering Journal</i> , 2018 , 352, 225-231	14.7	38
314	Highly sensitive and selective detection of Bis-phenol A based on hydroxyapatite decorated reduced graphene oxide nanocomposites. <i>Electrochimica Acta</i> , 2017 , 241, 353-361	6.7	37
313	Phenolic sensor development based on chromium oxide-decorated carbon nanotubes for environmental safety. <i>Journal of Environmental Management</i> , 2017 , 188, 228-237	7.9	37

312	Applications of chitosan (CHI)-reduced graphene oxide (rGO)-polyaniline (PAni) conducting composite electrode for energy generation in glucose biofuel cell. <i>Scientific Reports</i> , 2020 , 10, 10428	4.9	37
311	Electrochemical decolorization of Methylene blue at Pt electrode in KCl solution for environmental remediation. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 787-791	6.3	36
310	SnO ₂ /TiO ₂ nanocomposites as new adsorbent for efficient removal of La(III) ions from aqueous solutions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 1964-1974	5.3	36
309	Selective Iron(III) ion uptake using CuO-TiO ₂ nanostructure by inductively coupled plasma-optical emission spectrometry. <i>Chemistry Central Journal</i> , 2012 , 6, 158		36
308	Efficient 2-Nitrophenol Chemical Sensor Development Based on Ce ₂ O ₃ Nanoparticles Decorated CNT Nanocomposites for Environmental Safety. <i>PLoS ONE</i> , 2016 , 11, e0166265	3.7	36
307	Development of 4-methoxyphenol chemical sensor based on NiS ₂ -CNT nanocomposites. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 64, 157-165	5.3	36
306	Development of an efficient phenolic sensor based on facile Ag ₂ O/Sb ₂ O ₃ nanoparticles for environmental safety. <i>Nanoscale Advances</i> , 2019 , 1, 696-705	5.1	35
305	Preparation and properties of novel sol-gel-derived quaternized poly(n-methyl pyrrole)/Sn(II)SiO ₃ /CNT composites. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 1479-1489	2.6	35
304	Electrocatalytic Oxidation of 4-Aminophenol Molecules at the Surface of an FeS /Carbon Nanotube Modified Glassy Carbon Electrode in Aqueous Medium. <i>ChemPlusChem</i> , 2019 , 84, 175-182	2.8	34
303	Fabrication of a Ga ³⁺ sensor probe based on methoxybenzylidenebenzenesulfonohydrazide (MBBSH) by an electrochemical approach. <i>New Journal of Chemistry</i> , 2018 , 42, 1169-1180	3.6	34
302	Hydrothermally prepared Ag ₂ O/CuO nanomaterial for an efficient chemical sensor development for environmental remediation. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2018 , 10, 1-9	3.3	33
301	Ternary nanocomposite based poly(pyrrole-co-O-toluidine), cobalt ferrite and decorated chitosan as a selective Co ²⁺ cationic sensor. <i>Composites Part B: Engineering</i> , 2019 , 175, 107175	10	33
300	Multilevel topological description of molecular packings in 1,2-benzothiazines. <i>CrystEngComm</i> , 2014 , 16, 1963-1970	3.3	33
299	Preparation of polyaniline grafted graphene oxide/WO ₃ nanocomposite and its application as a chromium(III) chemi-sensor. <i>RSC Advances</i> , 2015 , 5, 105169-105178	3.7	33
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