Mohammed M Rahman

List of Publications by Year
in descending order

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463 papers	18,939 citations	13068 68 h-index	24915 109 g-index
470 all docs	470 docs citations	470 times ranked	11802 citing authors

#	Article	IF	Citations
1	Zinc oxide nanonail based chemical sensor for hydrazine detection. Chemical Communications, 2008, , 166-168.	2.2	442
2	Efficient detection and adsorption of cadmium(II) ions using innovative nano-composite materials. Chemical Engineering Journal, 2018, 343, 118-127.	6.6	363
3	Facile mercury detection and removal from aqueous media involving ligand impregnated conjugate nanomaterials. Chemical Engineering Journal, 2016, 290, 243-251.	6.6	320
4	Inorganic-organic based novel nano-conjugate material for effective cobalt(II) ions capturing from wastewater. Chemical Engineering Journal, 2017, 324, 130-139.	6.6	265
5	Ligand field effect for Dysprosium(III) and Lutetium(III) adsorption and EXAFS coordination with novel composite nanomaterials. Chemical Engineering Journal, 2017, 320, 427-435.	6.6	256
6	Novel composite material for selective copper(II) detection and removal from aqueous media. Journal of Molecular Liquids, 2019, 283, 772-780.	2.3	245
7	Exploration of CeO2 nanoparticles as a chemi-sensor and photo-catalyst for environmental applications. Science of the Total Environment, 2011, 409, 2987-2992.	3.9	236
8	Offering an innovative composited material for effective lead(II) monitoring and removal from polluted water. Journal of Cleaner Production, 2019, 231, 214-223.	4.6	231
9	Cleaning the arsenic(V) contaminated water for safe-guarding the public health using novel composite material. Composites Part B: Engineering, 2019, 171, 294-301.	5.9	228
10	Introducing an amine functionalized novel conjugate material for toxic nitrite detection and adsorption from wastewater. Journal of Cleaner Production, 2019, 228, 778-785.	4.6	223
11	Introducing an alternate conjugated material for enhanced lead(II) capturing from wastewater. Journal of Cleaner Production, 2019, 224, 920-929.	4.6	211
12	Ultra-sensitive cholesterol biosensor based on low-temperature grown ZnO nanoparticles. Electrochemistry Communications, 2009, 11, 118-121.	2.3	208
13	Naked-eye lead(II) capturing from contaminated water using innovative large-pore facial composite materials. Microchemical Journal, 2020, 154, 104585.	2.3	195
14	Optimization of an innovative composited material for effective monitoring and removal of cobalt(II) from wastewater. Journal of Molecular Liquids, 2020, 298, 112035.	2.3	194
15	Novel optical composite material for efficient vanadium(III) capturing from wastewater. Journal of Molecular Liquids, 2019, 283, 704-712.	2.3	182
16	Assessment of enhanced nitrite removal and monitoring using ligand modified stable conjugate materials. Chemical Engineering Journal, 2019, 363, 64-72.	6.6	181
17	Highly-sensitive cholesterol biosensor based on well-crystallized flower-shaped ZnO nanostructures. Talanta, 2009, 78, 284-289.	2.9	179
18	Low-temperature growth of ZnO nanoparticles: Photocatalyst and acetone sensor. Talanta, 2011, 85, 943-949.	2.9	171

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19	Enzymatic glucose biosensor based on flower-shaped copper oxide nanostructures composed of thin nanosheets. Electrochemistry Communications, 2009, 11, 278-281.	2.3	162
20	CuO Codoped ZnO Based Nanostructured Materials for Sensitive Chemical Sensor Applications. ACS Applied Materials & Interfaces, 2011, 3, 1346-1351.	4.0	162
21	Highly sensitive ethanol chemical sensor based on Ni-doped SnO2 nanostructure materials. Biosensors and Bioelectronics, 2011, 28, 127-134.	5.3	161
22	Ligand based sustainable composite material for sensitive nickel(II) capturing in aqueous media. Journal of Environmental Chemical Engineering, 2020, 8, 103591.	3.3	161
23	Role of ZnO-CeO2 Nanostructures as a Photo-catalyst and Chemi-sensor. Journal of Materials Science and Technology, 2011, 27, 594-600.	5.6	156
24	One-step wet-chemical synthesis of ternary ZnO/CuO/Co₃O₄nanoparticles for sensitive and selective melamine sensor development. New Journal of Chemistry, 2019, 43, 4849-4858.	1.4	149
25	Non-enzymatic simultaneous detection of <scp>l</scp>-glutamic acid and uric acid using mesoporous Co₃O₄ nanosheets. RSC Advances, 2016, 6, 80511-80521.	1.7	148
26	Detection of uric acid based on doped ZnO/Ag₂O/Co₃O₄nanoparticle loaded glassy carbon electrode. New Journal of Chemistry, 2019, 43, 8651-8659.	1.4	148
27	Arsenic sensor development based on modification with (E)-Nâ€²-(2-nitrobenzylidine)-benzenesulfonohydrazide: a real sample analysis. New Journal of Chemistry, 2019, 43, 9066-9075.	1.4	148
28	Recent advances on oxygen reduction electrocatalysis: Correlating the characteristic properties of metal organic frameworks and the derived nanomaterials. Applied Catalysis B: Environmental, 2020, 268, 118570.	10.8	147
29	4-Hexylresorcinol sensor development based on wet-chemically prepared Co3O4@Er2O3 nanorods: A practical approach. Journal of Industrial and Engineering Chemistry, 2018, 66, 446-455.	2.9	140
30	Fabrication of 4-aminophenol sensor based on hydrothermally prepared ZnO/Yb₂O₃nanosheets. New Journal of Chemistry, 2017, 41, 9159-9169.	1.4	139
31	Trace electrochemical detection of Ni2+ ions with bidentate N,Nâ€²-(ethane-1,2-diyl)bis(3,4-dimethoxybenzenesulfonamide) [EDBDMBS] as a chelating agent. Inorganica Chimica Acta, 2017, 464, 157-166.	1.2	135
32	Fabrication of cadmium ionic sensor based on (E)-4-Methyl-Nâ€²-(1-(pyridin-2-yl)ethylidene)benzenesulfonohydrazide (MPEBSH) by electrochemical approach. Journal of Organometallic Chemistry, 2017, 827, 49-55.	0.8	134
33	Fabrication of Highly Sensitive Ethanol Chemical Sensor Based on Sm-Doped Co₃O₄ Nanokernels by a Hydrothermal Method. Journal of Physical Chemistry C, 2011, 115, 9503-9510.	1.5	130
34	Development of 3-methoxyaniline sensor probe based on thin Ag₂O@La₂O₃ nanosheets for environmental safety. New Journal of Chemistry, 2019, 43, 4620-4632.	1.4	130
35	Ethanol chemi-sensor: Evaluation of structural, optical and sensing properties of CuO nanosheets. Materials Letters, 2011, 65, 1400-1403.	1.3	127
36	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.	4.0	121

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37	A lactate biosensor based on lactate dehydrogenase/nictotinamide adenine dinucleotide (oxidized) Tj ETQq1 1 0.784314 rgBT /Overlock Biochemistry, 2009, 384, 159-165.	1.1	121
38	Ultra-sensitive hydrazine chemical sensor based on high-aspect-ratio ZnO nanowires. Talanta, 2009, 77, 1376-1380.	2.9	121
39	Structure based pharmacophore modeling, virtual screening, molecular docking and ADMET approaches for identification of natural anti-cancer agents targeting XIAP protein. Scientific Reports, 2021, 11, 4049.	1.6	115
40	Fabrication of ZnO nanoparticles based sensitive methanol sensor and efficient photocatalyst. Applied Surface Science, 2012, 258, 7515-7522.	3.1	110
41	Smart chemical sensor and active photo-catalyst for environmental pollutants. Chemical Engineering Journal, 2011, 173, 178-184.	6.6	103
42	A Nanoscale Demonstration of Hydrogen Atom Spillover and Surface Diffusion Across Silica Using the Kinetics of CO₂ Methanation Catalyzed on Spatially Separate Pt and Co Nanoparticles.. Nano Letters, 2014, 14, 4792-4796.	4.5	100
43	Ultrasensitive and selective 4-aminophenol chemical sensor development based on nickel oxide nanoparticles decorated carbon nanotube nanocomposites for green environment. Journal of Environmental Sciences, 2017, 53, 27-38.	3.2	100
44	Highly sensitive formaldehyde chemical sensor based on hydrothermally prepared spinel ZnFe2O4 nanorods. Sensors and Actuators B: Chemical, 2012, 171-172, 932-937.	4.0	98
45	Synthesis, characterizations, photocatalytic and sensing studies of ZnO nanocapsules. Applied Surface Science, 2011, 258, 672-677.	3.1	96
46	Highly sensitive methanol chemical sensor based on undoped silver oxide nanoparticles prepared by a solution method. Mikrochimica Acta, 2012, 178, 99-106.	2.5	96
47	Synthesis, crystal structures, spectroscopic and nonlinear optical properties of chalcone derivatives: A combined experimental and theoretical study. Journal of Molecular Structure, 2017, 1141, 142-156.	1.8	96
48	Characterization and applications of as-grown Î²-Fe2O3 nanoparticles prepared by hydrothermal method. Journal of Nanoparticle Research, 2011, 13, 3789-3799.	0.8	93
49	Multi-layered mesoporous TiO₂thin films with large pores and highly crystalline frameworks for efficient photoelectrochemical conversion. Journal of Materials Chemistry A, 2013, 1, 1591-1599.	5.2	91
50	ZnO Nanonails: Synthesis and Their Application as Glucose Biosensor. Journal of Nanoscience and Nanotechnology, 2008, 8, 3216-3221.	0.9	89
51	Fabrication of highly sensitive acetone sensor based on sonochemically prepared as-grown Ag2O nanostructures. Chemical Engineering Journal, 2012, 192, 122-128.	6.6	87
52	Hierarchical Cu₂S Microsponges Constructed from Nanosheets for Efficient Photocatalysis. Small, 2013, 9, 2702-2708.	5.2	85
53	Synthesis, characterization of silver nanoparticle embedded polyaniline tungstophosphate-nanocomposite cation exchanger and its application for heavy metal selective membrane. Composites Part B: Engineering, 2013, 45, 1486-1492.	5.9	81
54	Nanoremediation technologies for sustainable remediation of contaminated environments: Recent advances and challenges. Chemosphere, 2021, 275, 130065.	4.2	81

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55	Synthesis, Crystal Structures and Spectroscopic Properties of Triazine-Based Hydrazone Derivatives; A Comparative Experimental-Theoretical Study. Molecules, 2015, 20, 5851-5874.	1.7	80
56	An assessment of zinc oxide nanosheets as a selective adsorbent for cadmium. Nanoscale Research Letters, 2013, 8, 377.	3.1	78
57	MgO polyhedral nanocages and nanocrystals based glucose biosensor. Electrochemistry Communications, 2009, 11, 1353-1357.	2.3	77
58	Ethanol sensor development based on ternary-doped metal oxides (CdO/ZnO/Yb₂O₃) nanosheets for environmental safety. RSC Advances, 2017, 7, 22627-22639.	1.7	77
59	Fabrication of selective chemical sensor with ternary ZnO/SnO2/Yb2O3 nanoparticles. Talanta, 2017, 170, 215-223.	2.9	76
60	Helicobacter pylori Infection in the Young in Bangladesh: Prevalence, Socioeconomic and Nutritional Aspects. International Journal of Epidemiology, 1996, 25, 894-898.	0.9	74
61	A novel approach towards hydrazine sensor development using SrOÂ·CNT nanocomposites. RSC Advances, 2016, 6, 65338-65348.	1.7	74
62	Cd-doped Sb2O4 nanostructures modified glassy carbon electrode for efficient detection of melamine by electrochemical approach. Biosensors and Bioelectronics, 2018, 102, 631-636.	5.3	74
63	Chloride ion sensors based on low-dimensional Î±-MnO2â€“Co3O4 nanoparticles fabricated glassy carbon electrodes by simple Iâ€“V technique. Electrochimica Acta, 2013, 103, 143-150.	2.6	73
64	Efficient hydroquinone sensor based on zinc, strontium and nickel based ternary metal oxide (TMO) composites by differential pulse voltammetry. Sensors and Actuators B: Chemical, 2018, 256, 383-392.	4.0	73
65	Electrochemical determination of olmesartan medoxomil using hydrothermally prepared nanoparticles composed SnO2â€“Co3O4 nanocubes in tablet dosage forms. Talanta, 2012, 99, 924-931.	2.9	72
66	Ultra-sensitive 2-nitrophenol detection based on reduced graphene oxide/ZnO nanocomposites. Journal of Electroanalytical Chemistry, 2017, 788, 66-73.	1.9	72
67	Efficient formaldehyde sensor development based on Cu-codoped ZnO nanomaterial by an electrochemical approach. Sensors and Actuators B: Chemical, 2020, 305, 127541.	4.0	72
68	Acetone sensor based on solvothermally prepared ZnO doped with Co3O4 nanorods. Mikrochimica Acta, 2013, 180, 675-685.	2.5	71
69	Highly sensitive and stable phenyl hydrazine chemical sensors based on CuO flower shapes and hollow spheres. New Journal of Chemistry, 2013, 37, 1098.	1.4	71
70	Fabrication of selective l-glutamic acid sensor in electrochemical technique from wet-chemically prepared RuO2 doped ZnO nanoparticles. Materials Chemistry and Physics, 2020, 251, 123029.	2.0	70
71	Mixed micellization between amphiphilic drug promethazine hydrochloride and cationic surfactant (conventional as well as gemini). Journal of Molecular Liquids, 2013, 177, 19-25.	2.3	69
72	Carbon black co-adsorbed ZnO nanocomposites for selective benzaldehyde sensor development by electrochemical approach for environmental safety. Journal of Industrial and Engineering Chemistry, 2018, 65, 300-308.	2.9	69

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73	Synthesis and environmental applications of cellulose/ZrO2 nanohybrid as a selective adsorbent for nickel ion. Composites Part B: Engineering, 2013, 50, 253-258.	5.9	68
74	Selective hydrazine sensor fabrication with facile low-dimensional Fe₂O₃/CeO₂nanocubes. New Journal of Chemistry, 2018, 42, 10263-10270.	1.4	68
75	Chemical sensor development based on polycrystalline gold electrode embedded low-dimensional Ag2O nanoparticles. Electrochimica Acta, 2013, 112, 422-430.	2.6	67
76	Lead sensors development and antimicrobial activities based on graphene oxide/carbon nanotube/poly(O-toluidine) nanocomposite. International Journal of Biological Macromolecules, 2016, 89, 198-205.	3.6	67
77	Amine modified tannin gel for adsorptive removal of Brilliant Green dye. Journal of Environmental Chemical Engineering, 2016, 4, 1231-1241.	3.3	67
78	Preparation and evaluation of composite hybrid nanomaterials for rare-earth elements separation and recovery. Separation and Purification Technology, 2020, 253, 117515.	3.9	67
79	Special susceptive aqueous ammonia chemi-sensor: Extended applications of novel UV-curable polyurethane-clay nanohybrid. Talanta, 2011, 84, 1005-1010.	2.9	66
80	Fabrication of a methanol chemical sensor based on hydrothermally prepared Î±-Fe2O3 codoped SnO2 nanocubes. Talanta, 2012, 95, 18-24.	2.9	66
81	Cobalt doped antimony oxide nano-particles based chemical sensor and photo-catalyst for environmental pollutants. Applied Surface Science, 2012, 261, 52-58.	3.1	66
82	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. Microchemical Journal, 2020, 152, 104291.	2.3	66
83	Ultrasensitive and selective hydrazine sensor development based on Sn/ZnO nanoparticles. RSC Advances, 2016, 6, 29342-29352.	1.7	64
84	Copper-immobilized platinum electrocatalyst for the effective reduction of nitrate in a low conductive medium: Mechanism, adsorption thermodynamics and stability. Applied Catalysis A: General, 2014, 478, 259-266.	2.2	63
85	Synthesis, crystal structure, spectroscopic and density functional theory (DFT) study of N-[3-anthracen-9-yl-1-(4-bromo-phenyl)-allylidene]-N-benzenesulfonohydrazine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 142, 364-374.	2.0	63
86	Structural study, photoluminescence and photocatalytic properties of La2O3 â‹… Fe3O4 â‹… ZnO,AgO â‹… NiO â‹… ZnO and La2O3 â‹… AgO â‹… ZnO nanocomposites. Nano Structures Nano Objects, 2017, 10, 30-41.	1.9	62
87	Polyaniline/graphene/carbon nanotubes nanocomposites for sensing environmentally hazardous 4-aminophenol. Nano Structures Nano Objects, 2018, 15, 63-74.	1.9	61
88	Applications of chitosan (CHI)-reduced graphene oxide (rGO)-polyaniline (PAni) conducting composite electrode for energy generation in glucose biofuel cell. Scientific Reports, 2020, 10, 10428.	1.6	61
89	Fabrication of chloroform sensor based on hydrothermally prepared low-dimensional Î²-Fe2O3 nanoparticles. Superlattices and Microstructures, 2011, 50, 369-376.	1.4	59
90	Efficient Bisphenol-A detection based on the ternary metal oxide (TMO) composite by electrochemical approaches. Electrochimica Acta, 2017, 246, 597-605.	2.6	59

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91	Preparation and characterization of PANI@G/CWO nanocomposite for enhanced 2-nitrophenol sensing. Applied Surface Science, 2018, 433, 696-704.	3.1	59
92	Hg²⁺ Sensor Development Based on (E)-Nâ€²-Nitrobenzylidene-Benzenesulfonohydrazide (NBBSH) Derivatives Fabricated on a Glassy Carbon Electrode with a Nafion Matrix. ACS Omega, 2017, 2, 420-431.	1.6	58
93	Selective determination of gold(III) ion using CuO microsheets as a solid phase adsorbent prior by ICP-OES measurement. Talanta, 2013, 104, 75-82.	2.9	57
94	Novel Mn-/Co-N_x Moieties Captured in N-Doped Carbon Nanotubes for Enhanced Oxygen Reduction Activity and Stability in Acidic and Alkaline Media. ACS Applied Materials & Interfaces, 2021, 13, 23191-23200.	4.0	57
95	Selective detection of toxic Pb(II) ions based on wet-chemically prepared nanosheets integrated CuOâ€“ZnO nanocomposites. Composites Part B: Engineering, 2013, 54, 215-223.	5.9	56
96	Wet-chemically prepared low-dimensional ZnO/Al₂O₃/Cr₂O₃nanoparticles for xanthine sensor development using an electrochemical method. RSC Advances, 2018, 8, 12562-12572.	1.7	56
97	Detection of aprepitant drug based on low-dimensional un-doped iron oxide nanoparticles prepared by a solution method. Electrochimica Acta, 2012, 75, 164-170.	2.6	55
98	Chemo-sensors development based on low-dimensional codoped Mn2O3-ZnO nanoparticles using flat-silver electrodes. Chemistry Central Journal, 2013, 7, 60.	2.6	54
99	Sensitive methanol sensor based on PMMA-G-CNTs nanocomposites deposited onto glassy carbon electrodes. Talanta, 2016, 150, 71-80.	2.9	54
100	Fabrication of an acetone sensor based on facile ternary MnO₂/Gd₂O₃/SnO₂ nanosheets for environmental safety. New Journal of Chemistry, 2017, 41, 9938-9946.	1.4	54
101	Electrocatalytic Oxidation of 4â€Aminophenol Molecules at the Surface of an FeS₂/Carbon Nanotube Modified Glassy Carbon Electrode in Aqueous Medium. ChemPlusChem, 2019, 84, 175-182.	1.3	54
102	Fabrication of highly sensitive ethanol sensor based on doped nanostructure materials using tiny chips. RSC Advances, 2015, 5, 63252-63263.	1.7	53
103	Hydrazine sensors development based on a glassy carbon electrode modified with a nanostructured TiO2 films by electrochemical approach. Mikrochimica Acta, 2017, 184, 2123-2129.	2.5	53
104	Development of Cd2+ sensor based on BZNA/Nafion/Glassy carbon electrode by electrochemical approach. Chemical Engineering Journal, 2018, 352, 225-231.	6.6	53
105	Fabrication of 1,4-dioxane sensor based on microwave assisted PAni-SiO2 nanocomposites. Talanta, 2019, 193, 64-69.	2.9	53
106	ZnO Nanorods Based Hydrazine Sensors. Journal of Nanoscience and Nanotechnology, 2009, 9, 4686-4691.	0.9	52
107	Highly sensitive and selective detection of Bis-phenol A based on hydroxyapatite decorated reduced graphene oxide nanocomposites. Electrochimica Acta, 2017, 241, 353-361.	2.6	52
108	Bilirubin sensor based on CuO-CdO composites deposited in a nafion/glassy carbon electrode matrixes. Progress in Natural Science: Materials International, 2017, 27, 566-573.	1.8	52

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109	Fabrication of a highly sensitive penicillin sensor based on charge transfer techniques. Biosensors and Bioelectronics, 2009, 24, 1877-1882.	5.3	51
110	A glassy carbon electrode modified with Î³-Ce₂S₃-decorated CNT nanocomposites for uric acid sensor development: a real sample analysis. RSC Advances, 2017, 7, 14649-14659.	1.7	51
111	Sensitive 1,2-dichlorobenzene chemi-sensor development based on solvothermally prepared FeO/CdO nanocubes for environmental safety. Journal of Industrial and Engineering Chemistry, 2018, 62, 392-400.	2.9	51
112	3,4-Diaminotoluene sensor development based on hydrothermally prepared MnCoxOy nanoparticles. Talanta, 2018, 176, 17-25.	2.9	51
113	Development of a highly-sensitive acetylcholine sensor using a charge-transfer technique on a smart biochip. TrAC - Trends in Analytical Chemistry, 2009, 28, 196-203.	5.8	50
114	Development of 4-methoxyphenol chemical sensor based on NiS2-CNT nanocomposites. Journal of the Taiwan Institute of Chemical Engineers, 2016, 64, 157-165.	2.7	50
115	Development of highly-sensitive hydrazine sensor based on facile CoS₂â€“CNT nanocomposites. RSC Advances, 2016, 6, 90470-90479.	1.7	50
116	Hydrazine sensor based on silver nanoparticle-decorated polyaniline tungstophosphate nanocomposite for use in environmental remediation. Mikrochimica Acta, 2016, 183, 1787-1796.	2.5	49
117	Fabrication of 1,2-dichlorobenzene sensor based on mesoporous MCM-41 material. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 562, 161-169.	2.3	49
118	Heavy metals contamination and associated health risks in food websâ€”a review focuses on food safety and environmental sustainability in Bangladesh. Environmental Science and Pollution Research, 2022, 29, 3230-3245.	2.7	49
119	Development of selective and sensitive bicarbonate chemical sensor based on wet-chemically prepared CuO-ZnO nanorods. Sensors and Actuators B: Chemical, 2015, 214, 82-91.	4.0	48
120	Efficient 4-Nitrophenol sensor development based on facile Ag@Nd2O3 nanoparticles. Materials Today Communications, 2018, 16, 307-313.	0.9	48
121	One-step facile synthesis of Nd2O3/ZnO nanostructures for an efficient selective 2,4-dinitrophenol sensor probe. Applied Surface Science, 2019, 487, 1253-1261.	3.1	48
122	Enzymeless Electrocatalytic Detection of Uric Acid Using Polydopamine/Polypyrrole Copolymeric film. ChemistrySelect, 2020, 5, 156-164.	0.7	48
123	Sensor development of 1,2 Dichlorobenzene based on polypyrole/Cu-doped ZnO (PPY/CZO) nanocomposite embedded silver electrode and their antimicrobial studies. International Journal of Biological Macromolecules, 2017, 98, 256-267.	3.6	47
124	Synthesis of Fe- or Ag-doped TiO2â€“MWCNT nanocomposite thin films and their visible-light-induced catalysis of dye degradation and antibacterial activity. Research on Chemical Intermediates, 2018, 44, 2667-2683.	1.3	47
125	Ternary nanocomposite based poly(pyrrole-co-O-toluidine), cobalt ferrite and decorated chitosan as a selective Co2+ cationic sensor. Composites Part B: Engineering, 2019, 175, 107175.	5.9	47
126	Fabrication of 3-methoxyphenol sensor based on Fe3O4 decorated carbon nanotube nanocomposites for environmental safety: Real sample analyses. PLoS ONE, 2017, 12, e0177817.	1.1	47

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127	Sensitive L-leucine sensor based on a glassy carbon electrode modified with SrO nanorods. Mikrochimica Acta, 2016, 183, 3265-3273.	2.5	46
128	2-Nitrophenol sensor-based wet-chemically prepared binary doped Co₃O₄/Al₂O₃nanosheets by an electrochemical approach. RSC Advances, 2018, 8, 960-970.	1.7	46
129	Fabrication of a 2,4-dinitrophenol sensor based on Fe₃O₄@Ag@Ni nanomaterials and studies on their antibacterial properties. New Journal of Chemistry, 2018, 42, 872-881.	1.4	46
130	Thiourea sensor development based on hydrothermally prepared CMO nanoparticles for environmental safety. Biosensors and Bioelectronics, 2018, 99, 586-592.	5.3	46
131	Efficient 2-Nitrophenol Chemical Sensor Development Based on Ce2O3 Nanoparticles Decorated CNT Nanocomposites for Environmental Safety. PLoS ONE, 2016, 11, e0166265.	1.1	45
132	Development of Creatine sensor based on antimony-doped tin oxide (ATO) nanoparticles. Sensors and Actuators B: Chemical, 2017, 242, 167-175.	4.0	45
133	Mixed oxides CuO-NiO fabricated for selective detection of 2-Aminophenol by electrochemical approach. Journal of Materials Research and Technology, 2020, 9, 1457-1467.	2.6	45
134	Multilevel topological description of molecular packings in 1,2-benzothiazines. CrystEngComm, 2014, 16, 1963-1970.	1.3	44
135	Development of selective Co2+ ionic sensor based on various derivatives of benzenesulfonohydrazide (BSH) compound: An electrochemical approach. Chemical Engineering Journal, 2018, 339, 133-143.	6.6	44
136	Sensitive and selective m-tolyl hydrazine chemical sensor development based on CdO nanomaterial decorated multi-walled carbon nanotubes. Journal of Industrial and Engineering Chemistry, 2019, 77, 309-316.	2.9	44
137	High performance polyaniline/vanadyl phosphate (PANIâ€“VOPO4) nano composite sheets prepared by exfoliation/intercalation method for sensing applications. European Polymer Journal, 2016, 75, 388-398.	2.6	43
138	Phenolic sensor development based on chromium oxide-decorated carbon nanotubes for environmental safety. Journal of Environmental Management, 2017, 188, 228-237.	3.8	43
139	Functionalized magnetic nanoparticle-reduced graphene oxide nanocomposite for enzymatic biofuel cell applications. International Journal of Hydrogen Energy, 2019, 44, 28294-28304.	3.8	43
140	Development of an efficient phenolic sensor based on facile Ag₂O/Sb₂O₃nanoparticles for environmental safety. Nanoscale Advances, 2019, 1, 696-705.	2.2	43
141	Electrochemical detection of 2-nitrophenol using a heterostructure ZnO/RuO₂ nanoparticle modified glassy carbon electrode. RSC Advances, 2020, 10, 122-132.	1.7	43
142	SnO2â€“TiO2 nanocomposites as new adsorbent for efficient removal of La(III) ions from aqueous solutions. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1964-1974.	2.7	42
143	Sensitive and fast response ethanol chemical sensor based on as-grown Gd2O3 nanostructures. Journal of Rare Earths, 2015, 33, 214-220.	2.5	42
144	Chemical sensor development based on poly(o-anisidine)silverizedâ€“MWCNT nanocomposites deposited on glassy carbon electrodes for environmental remediation. RSC Advances, 2015, 5, 71370-71378.	1.7	42

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145	A glutathione biosensor based on a glassy carbon electrode modified with CdO nanoparticle-decorated carbon nanotubes in a nafion matrix. Mikrochimica Acta, 2016, 183, 3255-3263.	2.5	42
146	The synthesis and characterization of carbon dots and their application in dye sensitized solar cell. International Journal of Hydrogen Energy, 2019, 44, 14580-14587.	3.8	42
147	Electrochemical decolorization of Methylene blue at Pt electrode in KCl solution for environmental remediation. Journal of Industrial and Engineering Chemistry, 2015, 21, 787-791.	2.9	41
148	Electro-kinetics of conversion of NO3â˜' into NO2â˜'and sensing of nitrate ions via reduction reactions at copper immobilized platinum surface in the neutral medium. Electrochimica Acta, 2020, 346, 135994.	2.6	41
149	One-step facile synthesis of SnO₂@Nd₂O₃ nanocomposites for selective amidol detection in aqueous phase. New Journal of Chemistry, 2020, 44, 4952-4959.	1.4	41
150	Hydrothermally prepared Ag2O/CuO nanomaterial for an efficient chemical sensor development for environmental remediation. Environmental Nanotechnology, Monitoring and Management, 2018, 10, 1-9.	1.7	40
151	Branched Alkylamineâ€“Reduced Graphene Oxide Hybrids as a Dual Protonâ€“Electron Conductor and Organic-Only Water-Splitting Photocatalyst. ACS Applied Materials & Interfaces, 2020, 12, 10829-10838.	4.0	40
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