# Mohammed M Rahman

List of Publications by Year
in descending order

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|---|---|---|---|
| 463 papers | 18,939 citations | 13099 68 h-index | 24982 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. | 4.1 | 442 |
| 2 | Efficient detection and adsorption of cadmium(II) ions using innovative nano-composite materials. Chemical Engineering Journal, 2018, 343, 118-127. | 12.7 | 363 |
| 3 | Facile mercury detection and removal from aqueous media involving ligand impregnated conjugate nanomaterials. Chemical Engineering Journal, 2016, 290, 243-251. | 12.7 | 320 |
| 4 | Inorganic-organic based novel nano-conjugate material for effective cobalt(II) ions capturing from wastewater. Chemical Engineering Journal, 2017, 324, 130-139. | 12.7 | 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. | 12.7 | 256 |
| 6 | Novel composite material for selective copper(II) detection and removal from aqueous media. Journal of Molecular Liquids, 2019, 283, 772-780. | 4.9 | 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. | 8.0 | 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. | 9.3 | 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. | 12.0 | 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. | 9.3 | 223 |
| 11 | Introducing an alternate conjugated material for enhanced lead(II) capturing from wastewater. Journal of Cleaner Production, 2019, 224, 920-929. | 9.3 | 211 |
| 12 | Ultra-sensitive cholesterol biosensor based on low-temperature grown ZnO nanoparticles. Electrochemistry Communications, 2009, 11, 118-121. | 4.7 | 208 |
| 13 | Naked-eye lead(II) capturing from contaminated water using innovative large-pore facial composite materials. Microchemical Journal, 2020, 154, 104585. | 4.5 | 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. | 4.9 | 194 |
| 15 | Novel optical composite material for efficient vanadium(III) capturing from wastewater. Journal of Molecular Liquids, 2019, 283, 704-712. | 4.9 | 182 |
| 16 | Assessment of enhanced nitrite removal and monitoring using ligand modified stable conjugate materials. Chemical Engineering Journal, 2019, 363, 64-72. | 12.7 | 181 |
| 17 | Highly-sensitive cholesterol biosensor based on well-crystallized flower-shaped ZnO nanostructures. Talanta, 2009, 78, 284-289. | 5.5 | 179 |
| 18 | Low-temperature growth of ZnO nanoparticles: Photocatalyst and acetone sensor. Talanta, 2011, 85, 943-949. | 5.5 | 171 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Enzymatic glucose biosensor based on flower-shaped copper oxide nanostructures composed of thin nanosheets. Electrochemistry Communications, 2009, 11, 278-281. | 4.7 | 162 |
| 20 | CuO Codoped ZnO Based Nanostructured Materials for Sensitive Chemical Sensor Applications. ACS Applied Materials & Interfaces, 2011, 3, 1346-1351. | 8.0 | 162 |
| 21 | Highly sensitive ethanol chemical sensor based on Ni-doped SnO2 nanostructure materials. Biosensors and Bioelectronics, 2011, 28, 127-134. | 10.1 | 161 |
| 22 | Ligand based sustainable composite material for sensitive nickel(II) capturing in aqueous media. Journal of Environmental Chemical Engineering, 2020, 8, 103591. | 6.7 | 161 |
| 23 | Role of ZnO-CeO2 Nanostructures as a Photo-catalyst and Chemi-sensor. Journal of Materials Science and Technology, 2011, 27, 594-600. | 10.7 | 156 |
| 24 | One-step wet-chemical synthesis of ternary ZnO/CuO/Co<sub>3</sub>O<sub>4</sub>nanoparticles for sensitive and selective melamine sensor development. New Journal of Chemistry, 2019, 43, 4849-4858. | 2.8 | 149 |
| 25 | Non-enzymatic simultaneous detection of <scp>l</scp>-glutamic acid and uric acid using mesoporous Co<sub>3</sub>O<sub>4</sub> nanosheets. RSC Advances, 2016, 6, 80511-80521. | 3.6 | 148 |
| 26 | Detection of uric acid based on doped ZnO/Ag<sub>2</sub>O/Co<sub>3</sub>O<sub>4</sub>nanoparticle loaded glassy carbon electrode. New Journal of Chemistry, 2019, 43, 8651-8659. | 2.8 | 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. | 2.8 | 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. | 20.2 | 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. | 5.8 | 140 |
| 30 | Fabrication of 4-aminophenol sensor based on hydrothermally prepared ZnO/Yb<sub>2</sub>O<sub>3</sub>nanosheets. New Journal of Chemistry, 2017, 41, 9159-9169. | 2.8 | 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. | 2.4 | 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. | 1.8 | 134 |
| 33 | Fabrication of Highly Sensitive Ethanol Chemical Sensor Based on Sm-Doped Co<sub>3</sub>O<sub>4</sub> Nanokernels by a Hydrothermal Method. Journal of Physical Chemistry C, 2011, 115, 9503-9510. | 3.1 | 130 |
| 34 | Development of 3-methoxyaniline sensor probe based on thin Ag<sub>2</sub>O@La<sub>2</sub>O<sub>3</sub> nanosheets for environmental safety. New Journal of Chemistry, 2019, 43, 4620-4632. | 2.8 | 130 |
| 35 | Ethanol chemi-sensor: Evaluation of structural, optical and sensing properties of CuO nanosheets. Materials Letters, 2011, 65, 1400-1403. | 2.6 | 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. | 7.8 | 121 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A lactate biosensor based on lactate dehydrogenase/nictotinamide adenine dinucleotide (oxidized) Tj ETQq1 1 0.784314 rgBT /Overlock Biochemistry, 2009, 384, 159-165. | 2.4 | 121 |
| 38 | Ultra-sensitive hydrazine chemical sensor based on high-aspect-ratio ZnO nanowires. Talanta, 2009, 77, 1376-1380. | 5.5 | 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. | 3.3 | 115 |
| 40 | Fabrication of ZnO nanoparticles based sensitive methanol sensor and efficient photocatalyst. Applied Surface Science, 2012, 258, 7515-7522. | 6.1 | 110 |
| 41 | Smart chemical sensor and active photo-catalyst for environmental pollutants. Chemical Engineering Journal, 2011, 173, 178-184. | 12.7 | 103 |
| 42 | A Nanoscale Demonstration of Hydrogen Atom Spillover and Surface Diffusion Across Silica Using the Kinetics of CO<sub>2</sub> Methanation Catalyzed on Spatially Separate Pt and Co Nanoparticles.. Nano Letters, 2014, 14, 4792-4796. | 9.1 | 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. | 6.1 | 100 |
| 44 | Highly sensitive formaldehyde chemical sensor based on hydrothermally prepared spinel ZnFe2O4 nanorods. Sensors and Actuators B: Chemical, 2012, 171-172, 932-937. | 7.8 | 98 |
| 45 | Synthesis, characterizations, photocatalytic and sensing studies of ZnO nanocapsules. Applied Surface Science, 2011, 258, 672-677. | 6.1 | 96 |
| 46 | Highly sensitive methanol chemical sensor based on undoped silver oxide nanoparticles prepared by a solution method. Mikrochimica Acta, 2012, 178, 99-106. | 5.0 | 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. | 3.6 | 96 |
| 48 | Characterization and applications of as-grown Î²-Fe2O3 nanoparticles prepared by hydrothermal method. Journal of Nanoparticle Research, 2011, 13, 3789-3799. | 1.9 | 93 |
| 49 | Multi-layered mesoporous TiO<sub>2</sub>thin films with large pores and highly crystalline frameworks for efficient photoelectrochemical conversion. Journal of Materials Chemistry A, 2013, 1, 1591-1599. | 10.3 | 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. | 12.7 | 87 |
| 52 | Hierarchical Cu<sub>2</sub>S Microsponges Constructed from Nanosheets for Efficient Photocatalysis. Small, 2013, 9, 2702-2708. | 10.0 | 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. | 12.0 | 81 |
| 54 | Nanoremediation technologies for sustainable remediation of contaminated environments: Recent advances and challenges. Chemosphere, 2021, 275, 130065. | 8.2 | 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. | 3.8 | 80 |
| 56 | An assessment of zinc oxide nanosheets as a selective adsorbent for cadmium. Nanoscale Research Letters, 2013, 8, 377. | 5.7 | 78 |
| 57 | MgO polyhedral nanocages and nanocrystals based glucose biosensor. Electrochemistry Communications, 2009, 11, 1353-1357. | 4.7 | 77 |
| 58 | Ethanol sensor development based on ternary-doped metal oxides (CdO/ZnO/Yb<sub>2</sub>O<sub>3</sub>) nanosheets for environmental safety. RSC Advances, 2017, 7, 22627-22639. | 3.6 | 77 |
| 59 | Fabrication of selective chemical sensor with ternary ZnO/SnO2/Yb2O3 nanoparticles. Talanta, 2017, 170, 215-223. | 5.5 | 76 |
| 60 | Helicobacter pylori Infection in the Young in Bangladesh: Prevalence, Socioeconomic and Nutritional Aspects. International Journal of Epidemiology, 1996, 25, 894-898. | 1.9 | 74 |
| 61 | A novel approach towards hydrazine sensor development using SrOÂ·CNT nanocomposites. RSC Advances, 2016, 6, 65338-65348. | 3.6 | 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. | 10.1 | 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. | 5.2 | 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. | 7.8 | 73 |
| 65 | Electrochemical determination of olmesartan medoxomil using hydrothermally prepared nanoparticles composed SnO2â€“Co3O4 nanocubes in tablet dosage forms. Talanta, 2012, 99, 924-931. | 5.5 | 72 |
| 66 | Ultra-sensitive 2-nitrophenol detection based on reduced graphene oxide/ZnO nanocomposites. Journal of Electroanalytical Chemistry, 2017, 788, 66-73. | 3.8 | 72 |
| 67 | Efficient formaldehyde sensor development based on Cu-codoped ZnO nanomaterial by an electrochemical approach. Sensors and Actuators B: Chemical, 2020, 305, 127541. | 7.8 | 72 |
| 68 | Acetone sensor based on solvothermally prepared ZnO doped with Co3O4 nanorods. Mikrochimica Acta, 2013, 180, 675-685. | 5.0 | 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. | 2.8 | 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. | 4.0 | 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. | 4.9 | 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. | 5.8 | 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. | 12.0 | 68 |
| 74 | Selective hydrazine sensor fabrication with facile low-dimensional Fe<sub>2</sub>O<sub>3</sub>/CeO<sub>2</sub>nanocubes. New Journal of Chemistry, 2018, 42, 10263-10270. | 2.8 | 68 |
| 75 | Chemical sensor development based on polycrystalline gold electrode embedded low-dimensional Ag2O nanoparticles. Electrochimica Acta, 2013, 112, 422-430. | 5.2 | 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. | 7.5 | 67 |
| 77 | Amine modified tannin gel for adsorptive removal of Brilliant Green dye. Journal of Environmental Chemical Engineering, 2016, 4, 1231-1241. | 6.7 | 67 |
| 78 | Preparation and evaluation of composite hybrid nanomaterials for rare-earth elements separation and recovery. Separation and Purification Technology, 2020, 253, 117515. | 7.9 | 67 |
| 79 | Special susceptive aqueous ammonia chemi-sensor: Extended applications of novel UV-curable polyurethane-clay nanohybrid. Talanta, 2011, 84, 1005-1010. | 5.5 | 66 |
| 80 | Fabrication of a methanol chemical sensor based on hydrothermally prepared Î±-Fe2O3 codoped SnO2 nanocubes. Talanta, 2012, 95, 18-24. | 5.5 | 66 |
| 81 | Cobalt doped antimony oxide nano-particles based chemical sensor and photo-catalyst for environmental pollutants. Applied Surface Science, 2012, 261, 52-58. | 6.1 | 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. | 4.5 | 66 |
| 83 | Ultrasensitive and selective hydrazine sensor development based on Sn/ZnO nanoparticles. RSC Advances, 2016, 6, 29342-29352. | 3.6 | 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. | 4.3 | 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. | 3.9 | 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. | 3.5 | 62 |
| 87 | Polyaniline/graphene/carbon nanotubes nanocomposites for sensing environmentally hazardous 4-aminophenol. Nano Structures Nano Objects, 2018, 15, 63-74. | 3.5 | 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. | 3.3 | 61 |
| 89 | Fabrication of chloroform sensor based on hydrothermally prepared low-dimensional Î²-Fe2O3 nanoparticles. Superlattices and Microstructures, 2011, 50, 369-376. | 3.1 | 59 |
| 90 | Efficient Bisphenol-A detection based on the ternary metal oxide (TMO) composite by electrochemical approaches. Electrochimica Acta, 2017, 246, 597-605. | 5.2 | 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. | 6.1 | 59 |
| 92 | Hg<sup>2+</sup> 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. | 3.5 | 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. | 5.5 | 57 |
| 94 | Novel Mn-/Co-N<sub>x</sub> 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. | 8.0 | 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. | 12.0 | 56 |
| 96 | Wet-chemically prepared low-dimensional ZnO/Al<sub>2</sub>O<sub>3</sub>/Cr<sub>2</sub>O<sub>3</sub>nanoparticles for xanthine sensor development using an electrochemical method. RSC Advances, 2018, 8, 12562-12572. | 3.6 | 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. | 5.2 | 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. | 5.5 | 54 |
| 100 | Fabrication of an acetone sensor based on facile ternary MnO<sub>2</sub>/Gd<sub>2</sub>O<sub>3</sub>/SnO<sub>2</sub> nanosheets for environmental safety. New Journal of Chemistry, 2017, 41, 9938-9946. | 2.8 | 54 |
| 101 | Electrocatalytic Oxidation of 4â€Aminophenol Molecules at the Surface of an FeS<sub>2</sub>/Carbon Nanotube Modified Glassy Carbon Electrode in Aqueous Medium. ChemPlusChem, 2019, 84, 175-182. | 2.8 | 54 |
| 102 | Fabrication of highly sensitive ethanol sensor based on doped nanostructure materials using tiny chips. RSC Advances, 2015, 5, 63252-63263. | 3.6 | 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. | 5.0 | 53 |
| 104 | Development of Cd2+ sensor based on BZNA/Nafion/Glassy carbon electrode by electrochemical approach. Chemical Engineering Journal, 2018, 352, 225-231. | 12.7 | 53 |
| 105 | Fabrication of 1,4-dioxane sensor based on microwave assisted PAni-SiO2 nanocomposites. Talanta, 2019, 193, 64-69. | 5.5 | 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. | 5.2 | 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. | 4.4 | 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. | 10.1 | 51 |
| 110 | A glassy carbon electrode modified with Î³-Ce<sub>2</sub>S<sub>3</sub>-decorated CNT nanocomposites for uric acid sensor development: a real sample analysis. RSC Advances, 2017, 7, 14649-14659. | 3.6 | 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. | 5.8 | 51 |
| 112 | 3,4-Diaminotoluene sensor development based on hydrothermally prepared MnCoxOy nanoparticles. Talanta, 2018, 176, 17-25. | 5.5 | 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. | 11.4 | 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. | 5.3 | 50 |
| 115 | Development of highly-sensitive hydrazine sensor based on facile CoS<sub>2</sub>â€“CNT nanocomposites. RSC Advances, 2016, 6, 90470-90479. | 3.6 | 50 |
| 116 | Hydrazine sensor based on silver nanoparticle-decorated polyaniline tungstophosphate nanocomposite for use in environmental remediation. Mikrochimica Acta, 2016, 183, 1787-1796. | 5.0 | 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. | 4.7 | 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. | 5.3 | 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. | 7.8 | 48 |
| 120 | Efficient 4-Nitrophenol sensor development based on facile Ag@Nd2O3 nanoparticles. Materials Today Communications, 2018, 16, 307-313. | 1.9 | 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. | 6.1 | 48 |
| 122 | Enzymeless Electrocatalytic Detection of Uric Acid Using Polydopamine/Polypyrrole Copolymeric film. ChemistrySelect, 2020, 5, 156-164. | 1.5 | 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. | 7.5 | 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. | 2.7 | 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. | 12.0 | 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. | 2.5 | 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. | 5.0 | 46 |
| 128 | 2-Nitrophenol sensor-based wet-chemically prepared binary doped Co<sub>3</sub>O<sub>4</sub>/Al<sub>2</sub>O<sub>3</sub>nanosheets by an electrochemical approach. RSC Advances, 2018, 8, 960-970. | 3.6 | 46 |
| 129 | Fabrication of a 2,4-dinitrophenol sensor based on Fe<sub>3</sub>O<sub>4</sub>@Ag@Ni nanomaterials and studies on their antibacterial properties. New Journal of Chemistry, 2018, 42, 872-881. | 2.8 | 46 |
| 130 | Thiourea sensor development based on hydrothermally prepared CMO nanoparticles for environmental safety. Biosensors and Bioelectronics, 2018, 99, 586-592. | 10.1 | 46 |
| 131 | Efficient 2-Nitrophenol Chemical Sensor Development Based on Ce2O3 Nanoparticles Decorated CNT Nanocomposites for Environmental Safety. PLoS ONE, 2016, 11, e0166265. | 2.5 | 45 |
| 132 | Development of Creatine sensor based on antimony-doped tin oxide (ATO) nanoparticles. Sensors and Actuators B: Chemical, 2017, 242, 167-175. | 7.8 | 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. | 5.8 | 45 |
| 134 | Multilevel topological description of molecular packings in 1,2-benzothiazines. CrystEngComm, 2014, 16, 1963-1970. | 2.6 | 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. | 12.7 | 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. | 5.8 | 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. | 5.4 | 43 |
| 138 | Phenolic sensor development based on chromium oxide-decorated carbon nanotubes for environmental safety. Journal of Environmental Management, 2017, 188, 228-237. | 7.8 | 43 |
| 139 | Functionalized magnetic nanoparticle-reduced graphene oxide nanocomposite for enzymatic biofuel cell applications. International Journal of Hydrogen Energy, 2019, 44, 28294-28304. | 7.1 | 43 |
| 140 | Development of an efficient phenolic sensor based on facile Ag<sub>2</sub>O/Sb<sub>2</sub>O<sub>3</sub>nanoparticles for environmental safety. Nanoscale Advances, 2019, 1, 696-705. | 4.6 | 43 |
| 141 | Electrochemical detection of 2-nitrophenol using a heterostructure ZnO/RuO<sub>2</sub> nanoparticle modified glassy carbon electrode. RSC Advances, 2020, 10, 122-132. | 3.6 | 43 |
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