

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	Heavy metals contamination and associated health risks in food webs—a review focuses on food safety and environmental sustainability in Bangladesh. <i>Environmental Science and Pollution Research</i> , 2022, 29, 3230-3245.	5.3	49
2	Sensitive detection of Penicillin-G chemical using SnO ₂ .YbO nanomaterials by electrochemical approach. <i>Journal of Saudi Chemical Society</i> , 2022, 26, 101392.	5.2	3
3	Studies of methanol electro-oxidation with ternary wet-chemically prepared ZCSO hexagonal nanodiscs with electrochemical approach. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 106, 503-511.	5.8	4
4	Selective 1,4-dioxane chemical sensor development with doped ZnO/GO nanocomposites by electrochemical approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 4360-4374.	2.2	5
5	Erosion characteristics of stainless steels under different percentage of SiC- Al ₂ O ₃ -Fe ₂ O ₃ solid particles. <i>Tribology International</i> , 2022, 167, 107403.	5.9	12
6	Facile fabrication of GCE/Nafion/Ni composite, a robust platform to detect hydrogen peroxide in basic medium via oxidation reaction. <i>Talanta</i> , 2022, 240, 123202.	5.5	15
7	Modeling Fracture Formation, Behavior and Mechanics of Polymeric Materials: A Biomedical Implant Perspective. <i>Journal of Composites Science</i> , 2022, 6, 31.	3.0	7
8	Development of a L-cysteine Sensor Based on Thallium Oxide Coupled Multi-walled Carbon Nanotube Nanocomposites with Electrochemical Approach. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	7
9	Ultraviolet and Infrared Irradiations Sensing of Gel-Orange Dye Composite-Based Flexible Electrochemical Cells. <i>Gels</i> , 2022, 8, 83.	4.5	1
10	Effect of Humidity and Temperature on the Impedances and Voltage of Al/Gr-Jelly/Cu-Rubber Composite-Based Flexible Electrochemical Sensors. <i>Gels</i> , 2022, 8, 73.	4.5	3
11	Biomass Lignin Integrated Polymeric Carbon Nitride for Boosted Photocatalytic Hydrogen and Oxygen Evolution Reactions. <i>Molecular Catalysis</i> , 2022, 518, 112064.	2.0	23
12	Catalytic Reduction of Environmental Pollutants with Biopolymer Hydrogel Cross-Linked Gelatin Conjugated Tin-Doped Gadolinium Oxide Nanocomposites. <i>Gels</i> , 2022, 8, 86.	4.5	8
13	Statistical Optimization and Modeling Approach for Fenton-like Discoloration of Methyl Orange using Green Zero-valent Iron Nanoparticle Catalysts. <i>ChemistrySelect</i> , 2022, 7, .	1.5	1
14	Electrocatalytic oxidation of catechol using IrOx-ITO electrode in aqueous medium. <i>Journal of Electroanalytical Chemistry</i> , 2022, 907, 116031.	3.8	7
15	Sunlight assisted photocatalytic dye degradation using zinc and iron based mixed metal-oxides nanopowders. <i>Journal of King Saud University - Science</i> , 2022, 34, 101841.	3.5	8
16	Ultra-sensitive, selective, and rapid carcinogenic 1,2-diaminobenzene chemical determination using sol-gel coating low-dimensional facile CuS modified-CNT nanocomposites by electrochemical approach. <i>Microchemical Journal</i> , 2022, 175, 107230.	4.5	10
17	Metal-Organic Frameworks Derived Electrocatalysts for Oxygen and Carbon Dioxide Reduction Reaction. <i>Chemical Record</i> , 2022, 22, e202100329.	5.8	26
18	Ultra-sensitive, selective and rapid carcinogenic Bisphenol A contaminant determination using low-dimensional facile binary Mg-SnO ₂ doped microcube by potential electro-analytical technique for the safety of environment. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 109, 147-154.	5.8	16

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19	Recent Development in Metallic Nanoparticles for Breast Cancer Therapy and Diagnosis. Chemical Record, 2022, 22, e202100331.	5.8	13
20	Recent Advancement of the Current Aspects of $\text{g}\alpha\text{C}_{3\text{N}_4}$ for its Photocatalytic Applications in Sustainable Energy System. Chemical Record, 2022, 22, e202100310.	5.8	32
21	Piezoelectric ceramics: Advanced applications in electrochemical and electronic fields. , 2022, , 167-179.		0
22	Synthesis, Characterization and Bio-Potential Activities of Co(II) and Ni(II) Complexes with O and N Donor Mixed Ligands. Crystals, 2022, 12, 326.	2.2	5
23	Nanostructured Carbons: Towards Soft Bioelectronics, Biosensing and Therapeutic Applications. Chemical Record, 2022, 22, e202100319.	5.8	7
24	Development of 4-aminophenol sensor probe based on $\text{Co}(0.8\text{-}x)\text{Zr}_x\text{Na}_{0.2}\text{Fe}_2\text{O}_4$ nanocomposites for monitoring environmental toxins. Emergent Materials, 2022, 5, 431-443.	5.7	2
25	Comprehensive Studies of Different Cancer Diseases among Less-Developed Countries. Healthcare (Switzerland), 2022, 10, 424.	2.0	4
26	Mixed Micellization, Thermodynamic and Adsorption Behavior of Tetracaine Hydrochloride in the Presence of Cationic Gemini/Conventional Surfactants. Gels, 2022, 8, 128.	4.5	7
27	Sol-Gel Synthesis and Characterization of Highly Selective Poly(N-methyl pyrrole) Stannous(II) Tungstate Nano Composite for Mercury (Hg(II)) Detection. Crystals, 2022, 12, 371.	2.2	3
28	Effect of Vibrations, Displacement, Pressure, Temperature and Humidity on the Resistance and Impedance of the Shockproof Resistors Based on Rubber and Jelly (NiPc@CNT@Oil) Composites. Gels, 2022, 8, 226.	4.5	0
29	Glassy Carbon Electrodes Decorated with HgO/CNT Nanocomposite and Modified with a Conducting Polymer Matrix for Enzyme-Free Ascorbic Acid Detection. ChemistrySelect, 2022, 7, .	1.5	2
30	Optimisation and Stability of Rh Particles on Noble Metal Films Immobilised on H^{++} Conducting Solid Polymer Electrolyte in Attaining Efficient Nitrate Removal. Chemistry - an Asian Journal, 2022, 17, e202200150.	3.3	5
31	Synthesis, characterization, In-silico and In-vitro investigation of sulfonamide based esters. Journal of Molecular Structure, 2022, 1259, 132711.	3.6	0
32	Recent Advances in Synthesis and Applications of Single-Atom Catalysts for Rechargeable Batteries. Chemical Record, 2022, 22, .	5.8	14
33	Physical, thermal, and mechanical properties of $\text{Al}_2\text{O}_3/\text{SiO}_2$ infused jute/glass fiber resin composite materials in relation to viscosity. Polymer Composites, 2022, 43, 3971-3982.	4.6	9
34	Improvement of Mechanical, Thermal, and Physical Behaviors of Jute/Cotton Biocomposites Reinforced by Spent Tea Leaf Particles. Journal of Composites Science, 2022, 6, 145.	3.0	1
35	Investigation on In Situ Carbon-Coated ZnFe_2O_4 as Advanced Anode Material for Li-Ion Batteries. Gels, 2022, 8, 305.	4.5	1
36	Energy Harvesting by Mesoporous Reduced Graphene Oxide Enhanced the Mediator-Free Glucose-Powered Enzymatic Biofuel Cell for Biomedical Applications. ACS Applied Materials & Interfaces, 2022, 14, 24229-24244.	8.0	15

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37	Development of 4-aminophenol sensor based on Co-MoS ₂ nanomaterials decorated on glassy carbon electrode using electrochemical technique. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 282, 115778.	3.5	6
38	An Efficient Enzyme-Less Uric Acid Sensor Development Based on PbO-Doped NiO Nanocomposites. Biosensors, 2022, 12, 381.	4.7	2
39	Detection of L-Aspartic Acid with Ag-Doped ZnO Nanosheets Using Differential Pulse Voltammetry. Biosensors, 2022, 12, 379.	4.7	9
40	Detection of Acetylcholine in an Enzyme-Free System Based on a GCE/V ₂ O ₅ NRs/BPM Modified Sensor. ChemistrySelect, 2022, 7, .	1.5	1
41	Mapping the Progress in Natural Dye-Sensitized Solar Cells: Materials, Parameters and Durability. ChemistrySelect, 2022, 7, .	1.5	5
42	Fabrication of highly sensitive 4-Nitrophenol sensor and photocatalytic performance of multifunctional Ba _{0.5} Sr _{0.5} CoxHfxFe _{12-2x} O ₁₉ Ferrite. Materials Chemistry and Physics, 2022, 288, 126396.	4.0	5
43	Electrocatalysis of 2,6-Dinitrophenol Based on Wet-Chemically Synthesized PbO-ZnO Microstructures. Catalysts, 2022, 12, 727.	3.5	3
44	UV-blocking cotton fabric design for comfortable summer wears: factors, durability and nanomaterials. Cellulose, 2022, 29, 7555-7585.	4.9	18
45	Electrocatalytic oxidation of ascorbic acid in the basic medium over electrochemically functionalized glassy carbon surface. Surfaces and Interfaces, 2022, 33, 102200.	3.0	6
46	rGO-diaminobutane surfaces with optimized N doping and hydrodynamics as dual proton-electron conductors and carbon photocatalysts. New Journal of Chemistry, 2021, 45, 383-393.	2.8	7
47	Efficient electro-chemical sensor for sensitive Cd ²⁺ detection based on novel in-situ synthesized hydrazoneyl bromide (HB). Journal of Molecular Structure, 2021, 1231, 129690.	3.6	11
48	Photocatalytic, anti-bacterial performance and development of 2,4-diaminophenylhydrazine chemical sensor probe based on ternary doped Ag-SrSnO ₃ nanorods. New Journal of Chemistry, 2021, 45, 1634-1650.	2.8	5
49	A reliable electrochemical approach for detection of testosterone with CuO-doped CeO ₂ nanocomposites-coated glassy carbon electrode. Journal of Materials Science: Materials in Electronics, 2021, 32, 5259-5273.	2.2	10
50	Photocatalytic performance, anti-bacterial activities and 3-chlorophenol sensor fabrication using MnAl ₂ O ₄ -ZnAl ₂ O ₄ nanomaterials. Nanoscale Advances, 2021, 3, 5872-5889.	4.6	8
51	An enzyme free simultaneous detection of ¹³ C-amino-butyric acid and testosterone based on copper oxide nanoparticles. RSC Advances, 2021, 11, 20794-20805.	3.6	7
52	Water-stable metal-organic framework for environmental remediation. , 2021, , 585-621.		3
53	Nanoagriculture: A Holistic Approach for Sustainable Development of Agriculture. , 2021, , 2587-2602.		1
54	Metal-Organic Framework-Derived Catalysts for Zn-Air Batteries. , 2021, , 2475-2489.		0

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55	A reliable electrochemical sensor developed based on ZnO/SnO ₂ , nanoparticles modified glassy carbon electrode. <i>Advances in Biochips</i> , 2021, 2, 24-34.	0.8	2
56	Development of a 4- <i>N</i> -nitrophenylhydrazine Sensor Based on MgTi ₂ O ₄ ·TiO ₂ ·Zn ₂ TiO ₄ Nanomaterials. <i>ChemistrySelect</i> , 2021, 6, 323-331.	1.5	0
57	Rapid and sensitive detection of selective 1,2-diaminobenzene based on facile hydrothermally prepared doped Co ₃ O ₄ /Yb ₂ O ₃ nanoparticles. <i>PLoS ONE</i> , 2021, 16, e0246756.	2.5	1
58	Environmental Contamination, Toxicology, and Safety by Nanocatalysts. <i>Current Analytical Chemistry</i> , 2021, 17, 124-125.	1.2	0
59	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.	3.3	115
60	Engineering tunable conductivity, p-n junction and light-harvesting semi-conductivity of graphene oxide by fixing reduction mood only. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 120, 325-335.	5.3	6
61	Electric properties of flexible rubber-based CNT/CNT-OD/Al cells fabricated by rubbing-in technology. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	6
62	In-situ phenylhydrazine chemical detection based on facile Zr-doped MoS ₂ nanocomposites (NCs) for environmental safety. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 120, 267-277.	5.3	10
63	Synthesis, structural analysis, electrochemical and antimicrobial activities of copper magnesium zirconosilicate (Cu ₂₀ Mg ₁₀ Si ₄₀ Zr _(30-x) O _(x=0,5,7,10) Ni ₂ +) nanocrystals. <i>Microchemical Journal</i> , 2021, 163, 105881.	4.5	25
64	Dye-sensitized solar cell with plasmonic gold nanoparticles modified photoanode. <i>Nano Structures Nano Objects</i> , 2021, 26, 100698.	3.5	18
65	Electrochemical Detection of 2- <i>N</i> -nitrophenol Using a Glassy Carbon Electrode Modified with BaO Nanorods. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1475-1485.	3.3	14
66	Novel Mn-/Co-N_x/ Moieties Captured in N-Doped Carbon Nanotubes for Enhanced Oxygen Reduction Activity and Stability in Acidic and Alkaline Media. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23191-23200.	8.0	57
67	Recent Progress in Electrochemical Detection of Human Papillomavirus (HPV) via Graphene-Based Nanosensors. <i>Journal of Sensors</i> , 2021, 2021, 1-15.	1.1	9
68	Assessment of Melamine in Different Water Samples with ZnO-doped Co₃O₄ Nanoparticles on a Glassy Carbon Electrode by Differential Pulse Voltammetry. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1820-1831.	3.3	10
69	Wet-chemically synthesis of SnO ₂ -doped Ag ₂ O nanostructured materials for sensitive detection of choline by an alternative electrochemical approach. <i>Microchemical Journal</i> , 2021, 165, 106092.	4.5	16
70	Impedimetric multifunctional Sensor Based on Rubber-CNTs-orange Dye Nanocomposite Fabricated by Rubbing-in Technology. <i>International Journal of Electrochemical Science</i> , 2021, 16, 210712.	1.3	2
71	Nanoremediation technologies for sustainable remediation of contaminated environments: Recent advances and challenges. <i>Chemosphere</i> , 2021, 275, 130065.	8.2	81
72	Electrocatalytic oxidation of ammonia in the neutral medium using Cu ₂ O.CuO film immobilized on glassy carbon surface. <i>Journal of Electroanalytical Chemistry</i> , 2021, 897, 115592.	3.8	14

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73	Salt-assisted gas-liquid interfacial fluorine doping: Metal-free defect-induced electrocatalyst for oxygen reduction reaction. <i>Molecular Catalysis</i> , 2021, 514, 111878.	2.0	14
74	Nanocomposite Based on CNT embedded in Water Soluble Conjugated Polyelectrolyte for the Electrochemical Sensing Barium(II) ion. <i>International Journal of Electrochemical Science</i> , 2021, 16, 21092.	1.3	0
75	Fabrication of IrOx immobilized glassy carbon surface for attaining electrocatalytic ascorbic acid oxidation reactions. <i>Electrochimica Acta</i> , 2021, 392, 138999.	5.2	13
76	Fabrication of Novel and Potential Selective 4-Cyanophenol Chemical Sensor Probe Based on Cu-Doped Gd ₂ O ₃ Nanofiber Materials Modified PEDOT:PSS Polymer Mixtures with Au/ μ -Chip for Effective Monitoring of Environmental Contaminants from Various Water Samples. <i>Polymers</i> , 2021, 13, 3379.	4.5	6
77	Chemical and Mineralogical Composition Analysis of Different Nigerian Metakaolins. <i>Journal of Applied Science & Process Engineering</i> , 2021, 8, 953-964.	0.1	0
78	Bacillus-Mediated Silver Nanoparticle Synthesis and Its Antagonistic Activity against Bacterial and Fungal Pathogens. <i>Antibiotics</i> , 2021, 10, 1334.	3.7	15
79	Development of Methanol Sensor Based on Sol-Gel Drop-Coating Co ₃ O ₄ -CdO-ZnO Nanoparticles Modified Gold-Coated μ -Chip by Electro-Oxidation Process. <i>Gels</i> , 2021, 7, 235.	4.5	7
80	Sensitive Detection of Thiourea Hazardous Toxin with Sandwich-Type Nafion/CuO/ZnO Nanospikes/Glassy Carbon Composite Electrodes. <i>Polymers</i> , 2021, 13, 3998.	4.5	12
81	Design, synthesis, crystal structure, <i>in vitro</i> cytotoxicity evaluation, density functional theory calculations and docking studies of 2-(benzamido) benzohydrazide derivatives as potent AChE and BChE inhibitors. <i>RSC Advances</i> , 2021, 12, 154-167.	3.6	10
82	Cytotoxicity Study of Cadmium-Selenium Quantum Dots (CdSe QDs) for Destroying the Human HepG2 Liver Cancer Cell. <i>Journal of Biomedical Nanotechnology</i> , 2021, 17, 2153-2164.	1.1	10
83	NIR red luminescent doped Ag-(Y _{0.95} Eu _{0.05}) ₂ O ₃ nanocomposite for 3-Chlorophenol sensor probe and anti-MDR bacterial application. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106881.	6.7	2
84	Efficient Hg(II) ionic probe development based on one-step synthesized diethyl thieno[2,3-b]thiophene-2,5-dicarboxylate (DETDC2) onto glassy carbon electrode. <i>Microchemical Journal</i> , 2020, 152, 104291.	4.5	66
85	Structural, spectroscopic and nonlinear optical properties of sulfonamide derivatives; experimental and theoretical study. <i>Journal of Molecular Structure</i> , 2020, 1202, 127393.	3.6	22
86	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.	4.9	194
87	Fabrication of hybrid PVA-PVC/SnZnOx/SWCNTs nanocomposites as Sn ²⁺ ionic probe for environmental safety. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 642-657.	1.3	8
88	Naked-eye lead(II) capturing from contaminated water using innovative large-pore facial composite materials. <i>Microchemical Journal</i> , 2020, 154, 104585.	4.5	195
89	Electrochemical detection of 2-nitrophenol using a heterostructure ZnO/RuO ₂ nanoparticle modified glassy carbon electrode. <i>RSC Advances</i> , 2020, 10, 122-132.	3.6	43
90	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.	20.2	147

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91	Enzymeless Electrocatalytic Detection of Uric Acid Using Polydopamine/Polypyrrole Copolymeric film. ChemistrySelect, 2020, 5, 156-164.	1.5	48
92	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
93	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
94	Ligand based sustainable composite material for sensitive nickel(II) capturing in aqueous media. Journal of Environmental Chemical Engineering, 2020, 8, 103591.	6.7	161
95	Photocatalysis, photoinduced enhanced anti-bacterial functions and development of a selective <i>m</i> -tolyl hydrazine sensor based on mixed Ag ₂ NiMn ₂ O ₄ nanomaterials. RSC Advances, 2020, 10, 30603-30619.	3.6	8
96	Development of highly efficient non-enzymatic nitrite sensor using La ₂ CuO ₄ nanoparticles. Microchemical Journal, 2020, 159, 105527.	4.5	21
97	Insights of temperature dependent catalysis and kinetics of electro-oxidation of nitrite ions on a glassy carbon electrode. Electrochimica Acta, 2020, 362, 137102.	5.2	17
98	Fabrication of selective and sensitive chemical sensor development based on flower-flake La ₂ ZnO ₄ nanocomposite for effective non-enzymatic sensing of hydrogen peroxide by electrochemical method. Microchemical Journal, 2020, 159, 105536.	4.5	18
99	Bifunctional electron conductive solid electrolyte and dye degrading photocatalyst from rGO-aminoalkane non-metallic origin. Journal of the Taiwan Institute of Chemical Engineers, 2020, 112, 87-96.	5.3	8
100	Development of L-glutamic acid biosensor with ternary ZnO/NiO/Al ₂ O ₃ nanoparticles. Journal of Luminescence, 2020, 227, 117528.	3.1	21
101	Nanocomposite cross-linked conjugated polyelectrolyte/MWCNT/poly(pyrrole) for enhanced Mg ²⁺ ion sensing and environmental remediation in real samples. Journal of Materials Research and Technology, 2020, 9, 9667-9674.	5.8	11
102	Synthesis, characterization, and crystal structure of (E)-N ¹ -(4-Bromobenzylidene)-benzenesulfonohydrazide and its application as a sensor of chromium ion detection from environmental samples. Journal of Molecular Structure, 2020, 1207, 127810.	3.6	20
103	Fabrication of selective and sensitive chemical sensor probe based on ternary nano-formulated CuO/MnO ₂ /Gd ₂ O ₃ spikes by hydrothermal approach. Scientific Reports, 2020, 10, 20248.	3.3	17
104	Non-enzymatic simultaneous detection of acetylcholine and ascorbic acid using ZnO-CuO nanoleaves: Real sample analysis. Microchemical Journal, 2020, 159, 105534.	4.5	31
105	Development of an ultra-sensitive <i>para</i> -nitrophenol sensor using tri-metallic oxide MoO ₂ -Fe ₃ O ₄ -CuO nanocomposites. Materials Advances, 2020, 1, 2831-2839.	5.4	26
106	Preparation and evaluation of composite hybrid nanomaterials for rare-earth elements separation and recovery. Separation and Purification Technology, 2020, 253, 117515.	7.9	67
107	An enzyme free detection of L-Glutamic acid using deposited CuO.GdO nanospikes on a flat glassy carbon electrode. Surfaces and Interfaces, 2020, 20, 100617.	3.0	13
108	Fabrication of dopamine sensor based on ternary AlMn _{0.645} Cr _{1.76} O _{7.47} nanoparticles. Materials Chemistry and Physics, 2020, 244, 122740.	4.0	18

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109	Fabrication of ascorbic sensor acid with Co ₃ O ₄ .Fe ₂ O ₃ nanosphere materials by electrochemical technique. Surfaces and Interfaces, 2020, 20, 100607.	3.0	12
110	Fabrication of a hydrazine chemical sensor based on facile synthesis of doped NZO nanostructure materials. New Journal of Chemistry, 2020, 44, 13018-13029.	2.8	25
111	Detection of thiourea with ternary Ag ₂ O/TiO ₂ /ZrO ₂ nanoparticles by electrochemical approach. Journal of Materials Science: Materials in Electronics, 2020, 31, 15422-15433.	2.2	6
112	Heterogeneous Kinetics of Thiourea Electro-catalytic Oxidation Reactions on Palladium Surface in Aqueous Medium. Chemistry - an Asian Journal, 2020, 15, 4327-4338.	3.3	11
113	A reliable alternative approach for the ultra-sensitive detection of l-glutathione with wet chemically synthesized Co ₃ O ₄ -doped SnO ₂ nanoparticles decorated on a glassy carbon electrode. New Journal of Chemistry, 2020, 44, 16020-16030.	2.8	10
114	A novel highly selective electrochemical chlorobenzene sensor based on ternary oxide RuO ₂ /ZnO/TiO ₂ nanocomposites. RSC Advances, 2020, 10, 32532-32547.	3.6	19
115	Facile SrO nanorods: an efficient and alternate detection approach for the selective removal of 4-aminophenol towards environmental safety. New Journal of Chemistry, 2020, 44, 15507-15514.	2.8	6
116	An Electrochemical Approach for the Selective Detection of Cancer Metabolic Creatine Biomarker with Porous Nano-Formulated CMNO Materials Decorated Glassy Carbon Electrode. Sensors, 2020, 20, 7060.	3.8	3
117	An alternative electrochemical approach for toluene detection with ZnO/MgO/Cr ₂ O ₃ nanofibers on a glassy carbon electrode for environmental monitoring. RSC Advances, 2020, 10, 44641-44653.	3.6	10
118	Selective detection of ascorbic acid with wet-chemically prepared CdO/SnO ₂ /V ₂ O ₅ micro-sheets by electrochemical approach. SN Applied Sciences, 2020, 2, 1.	2.9	9
119	Enzyme-free detection of uric acid using hydrothermally prepared CuO-Fe ₂ O ₃ nanocrystals. New Journal of Chemistry, 2020, 44, 19581-19590.	2.8	15
120	Assessment of environmentally unsafe pollutants using facile wet-chemically prepared CeO ₂ -ZrO ₂ nanocomposites by the electrochemical approach. New Journal of Chemistry, 2020, 44, 20285-20293.	2.8	4
121	Selective Hg ²⁺ sensor performance based various carbon-nanofillers into CuO-PMMA nanocomposites. Polymers for Advanced Technologies, 2020, 31, 1946-1962.	3.2	17
122	A non-enzymatic electrochemical approach for l-lactic acid sensor development based on CuO-MWCNT nanocomposites modified with a Nafion matrix. New Journal of Chemistry, 2020, 44, 9775-9787.	2.8	24
123	The fabrication of a chemical sensor with PANI-TiO ₂ nanocomposites. RSC Advances, 2020, 10, 12224-12233.	3.6	23
124	Simultaneous detection of l-aspartic acid and glycine using wet-chemically prepared Fe ₃ O ₄ @ZnO nanoparticles: real sample analysis. RSC Advances, 2020, 10, 19276-19289.	3.6	18
125	Fabrication of sensitive D-fructose sensor based on facile ternary mixed ZnO/CdO/SnO ₂ nanocomposites by electrochemical approach. Surfaces and Interfaces, 2020, 19, 100540.	3.0	12
126	Influence of Additives and Temperature on the Interaction of Acid Red 151 Dye with Cetyltrimethylammonium Bromide: A Conductometric Study. Journal of Surfactants and Detergents, 2020, 23, 903.	2.1	6

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127	Photocatalysis, enhanced anti-bacterial performance and discerning thiourea sensing of Ag ₂ O-SnO ₂ -TiO ₂ hetero-structure. Journal of Environmental Chemical Engineering, 2020, 8, 104051.	6.7	26
128	Selective and sensitive 4-Aminophenol chemical sensor development based on low-dimensional Ge-doped ZnO nanocomposites by electrochemical method. Microchemical Journal, 2020, 157, 104945.	4.5	21
129	The Performance of Various SWCNT Loading into CuO-PMMA Nanocomposites Towards the Detection of Mn ²⁺ Ions. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 5024-5041.	3.7	12
130	Fabrication of an ultra-sensitive <i>p</i> -nitrophenol sensor based on facile Zn-doped Er ₂ O ₃ nanocomposites via an electrochemical approach. Analytical Methods, 2020, 12, 3470-3483.	2.7	16
131	Enhanced visible light-mediated photocatalysis, antibacterial functions and fabrication of a 3-chlorophenol sensor based on ternary Ag ₂ O-SrO-CaO. RSC Advances, 2020, 10, 11274-11291.	3.6	39
132	Electro-kinetics of conversion of NO ₃ ⁻ into NO ₂ ⁻ and sensing of nitrate ions via reduction reactions at copper immobilized platinum surface in the neutral medium. Electrochimica Acta, 2020, 346, 135994.	5.2	41
133	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
134	A New Cr ³⁺ Electrochemical Sensor Based on ATNA/Nafion/Glassy Carbon Electrode. Materials, 2020, 13, 2695.	2.9	13
135	A potent synthesis and supramolecular synthon hierarchy perception of (E)-N ¹ -(Naphthalen-1-yl-methylene)-benzenesulfonohydrazide and 1-Naphthaldehyde: A combined experimental and DFT studies. Journal of Molecular Structure, 2020, 1221, 128797.	3.6	19
136	In-situ preparation of cadmium sulphide nanostructure decorated CNT composite materials for the development of selective benzaldehyde chemical sensor probe to remove the water contaminant by electrochemical method for environmental remediation. Materials Chemistry and Physics, 2020, 245, 122788.	4.0	12
137	One-step facile synthesis of SnO ₂ @Nd ₂ O ₃ nanocomposites for selective amidol detection in aqueous phase. New Journal of Chemistry, 2020, 44, 4952-4959.	2.8	41
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