

# Umamaheswari Rajaji

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/9314122/umamaheswari-rajaji-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

256  
papers

6,884  
citations

44  
h-index

67  
g-index

262  
ext. papers

8,674  
ext. citations

6.4  
avg, IF

6.92  
L-index

#	Paper	IF	Citations
256	Direct electrochemistry of glucose oxidase at electrochemically reduced graphene oxide-multiwalled carbon nanotubes hybrid material modified electrode for glucose biosensor. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 41, 309-15	11.8	300
255	Highly selective amperometric nitrite sensor based on chemically reduced graphene oxide modified electrode. <i>Electrochemistry Communications</i> , <b>2012</b> , 17, 75-78	5.1	237
254	Dopamine sensor based on a glassy carbon electrode modified with a reduced graphene oxide and palladium nanoparticles composite. <i>Mikrochimica Acta</i> , <b>2013</b> , 180, 1037-1042	5.8	138
253	Direct electrochemistry of myoglobin at reduced graphene oxide-multiwalled carbon nanotubes-platinum nanoparticles nanocomposite and biosensing towards hydrogen peroxide and nitrite. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 53, 420-7	11.8	130
252	Solvent-free mechanochemical synthesis of graphene oxide and Fe <sub>3</sub> O <sub>4</sub> -reduced graphene oxide nanocomposites for sensitive detection of nitrite. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15529-15539 <sup>3</sup>	13	128
251	Methyl parathion detection in vegetables and fruits using silver@graphene nanoribbons nanocomposite modified screen printed electrode. <i>Scientific Reports</i> , <b>2017</b> , 7, 46471	4.9	119
250	A Study of Electrocatalytic and Photocatalytic Activity of Cerium Molybdate Nanocubes Decorated Graphene Oxide for the Sensing and Degradation of Antibiotic Drug Chloramphenicol. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6547-6559	9.5	116
249	Molybdenum disulfide nanosheets coated multiwalled carbon nanotubes composite for highly sensitive determination of chloramphenicol in food samples milk, honey and powdered milk. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 485, 129-136	9.3	116
248	Green synthesized gold nanoparticles decorated graphene oxide for sensitive determination of chloramphenicol in milk, powdered milk, honey and eye drops. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 475, 46-56	9.3	99
247	Highly selective amperometric sensor for the trace level detection of hydrazine at bismuth nanoparticles decorated graphene nanosheets modified electrode. <i>Talanta</i> , <b>2014</b> , 124, 43-51	6.2	97
246	3D graphene oxide-cobalt oxide polyhedrons for highly sensitive non-enzymatic electrochemical determination of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 253, 773-783	8.5	95
245	Core-shell heterostructured multiwalled carbon nanotubes@reduced graphene oxide nanoribbons/chitosan, a robust nanobiocomposite for enzymatic biosensing of hydrogen peroxide and nitrite. <i>Scientific Reports</i> , <b>2017</b> , 7, 11910	4.9	86
244	Modern Approach to the Synthesis of Ni(OH) <sub>2</sub> Decorated Sulfur Doped Carbon Nanoparticles for the Nonenzymatic Glucose Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22545-53	9.5	86
243	Electrodeposition of copper nanoparticles using pectin scaffold at graphene nanosheets for electrochemical sensing of glucose and hydrogen peroxide. <i>Electrochimica Acta</i> , <b>2015</b> , 176, 804-810	6.7	84
242	Determination of dopamine using a glassy carbon electrode modified with a graphene and carbon nanotube hybrid decorated with molybdenum disulfide flowers. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 2267-2275 <sup>8</sup>	5.8	83
241	Rapid microwave assisted synthesis of graphene nanosheets/polyethyleneimine/gold nanoparticle composite and its application to the selective electrochemical determination of dopamine. <i>Talanta</i> , <b>2014</b> , 120, 148-57	6.2	82
240	Innovative Strategy Based on a Novel Carbon-Black- $\beta$ -Cyclodextrin Nanocomposite for the Simultaneous Determination of the Anticancer Drug Flutamide and the Environmental Pollutant 4-Nitrophenol. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 6283-6291	7.8	79

239	Nanocomposites composed of layered molybdenum disulfide and graphene for highly sensitive amperometric determination of methyl parathion. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 725-733	5.8	76
238	Ultrathin Sulfur-Doped Graphitic Carbon Nitride Nanosheets As Metal-Free Catalyst for Electrochemical Sensing and Catalytic Removal of 4-Nitrophenol. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 16021-16031	8.3	74
237	Electrochemical preparation of activated graphene oxide for the simultaneous determination of hydroquinone and catechol. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 500, 54-62	9.3	73
236	Electrocatalysis and simultaneous determination of catechol and quinol by poly(malachite green) coated multiwalled carbon nanotube film. <i>Analytical Biochemistry</i> , <b>2011</b> , 411, 71-9	3.1	73
235	Highly stable and sensitive amperometric sensor for the determination of trace level hydrazine at cross linked pectin stabilized gold nanoparticles decorated graphene nanosheets. <i>Electrochimica Acta</i> , <b>2014</b> , 135, 260-269	6.7	72
234	Electrochemically synthesized PtMnO <sub>2</sub> composite particles for simultaneous determination of catechol and hydroquinone. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 169, 235-242	8.5	68
233	Highly sensitive amperometric sensor for carbamazepine determination based on electrochemically reduced graphene oxide/single-walled carbon nanotube composite film. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 173, 274-280	8.5	67
232	Simplistic synthesis of ultrafine CoMnO nanosheets: An excellent electrocatalyst for highly sensitive detection of toxic 4-nitrophenol in environmental water samples. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 361, 123-133	12.8	62
231	Graphene oxide encapsulated 3D porous chalcopyrite (CuFeS <sub>2</sub> ) nanocomposite as an emerging electrocatalyst for agro-hazardous (methyl paraoxon) detection in vegetables. <i>Composites Part B: Engineering</i> , <b>2019</b> , 160, 268-276	10	61
230	Nanomolar electrochemical detection of caffeic acid in fortified wine samples based on gold/palladium nanoparticles decorated graphene flakes. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 501, 77-85	9.3	59
229	Synthesis of silver nanoparticles decorated on core-shell structured tannic acid-coated iron oxide nanospheres for excellent electrochemical detection and efficient catalytic reduction of hazardous 4-nitrophenol. <i>Composites Part B: Engineering</i> , <b>2019</b> , 162, 33-42	10	59
228	Detection of Pesticide Residues (Fenitrothion) in Fruit Samples Based On Niobium Carbide@Molybdenum Nanocomposite: An Electrocatalytic Approach. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1030, 52-60	6.6	56
227	Microwave-assisted synthesis of Bi <sub>2</sub> WO <sub>6</sub> flowers decorated graphene nanoribbon composite for electrocatalytic sensing of hazardous dihydroxybenzene isomers. <i>Composites Part B: Engineering</i> , <b>2018</b> , 152, 220-230	10	55
226	Biosynthesis of silver nanoparticles by using Camellia japonica leaf extract for the electrocatalytic reduction of nitrobenzene and photocatalytic degradation of Eosin-Y. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2017</b> , 170, 164-172	6.7	54
225	A new electrochemical sensor for highly sensitive and selective detection of nitrite in food samples based on sonochemical synthesized Calcium Ferrite (CaFeO) clusters modified screen printed carbon electrode. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 524, 417-426	9.3	54
224	A facile graphene oxide based sensor for electrochemical detection of prostate anti-cancer (anti-testosterone) drug flutamide in biological samples. <i>RSC Advances</i> , <b>2017</b> , 7, 25702-25709	3.7	53
223	Direct electrochemistry of cytochrome c immobilized on a graphene oxide/carbon nanotube composite for picomolar detection of hydrogen peroxide. <i>RSC Advances</i> , <b>2014</b> , 4, 28229-28237	3.7	53
222	Screen-printed electrode modified with a composite prepared from graphene oxide nanosheets and Mn <sub>3</sub> O <sub>4</sub> microcubes for ultrasensitive determination of nitrite. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 3625-3634	5.8	52

221	A voltammetric determination of caffeic acid in red wines based on the nitrogen doped carbon modified glassy carbon electrode. <i>Scientific Reports</i> , <b>2017</b> , 7, 45924	4.9	51
220	3D Flower-Like Gadolinium Molybdate Catalyst for Efficient Detection and Degradation of Organophosphate Pesticide (Fenitrothion). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 15652-15664	8.5	51
219	Bimetallic vanadium cobalt diselenide nanosheets with additional active sites for excellent asymmetric pseudocapacitive performance: comparing the electrochemical performances with $MCoSe_2$ (M = Zn, Mn, and Cu). <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12565-12581	13	48
218	Determination of oxidative stress biomarker 3-nitro-L-tyrosine using CdWO <sub>4</sub> nanodots decorated reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 272, 274-281	8.5	48
217	Porous carbon-modified electrodes as highly selective and sensitive sensors for detection of dopamine. <i>Analyst, The</i> , <b>2014</b> , 139, 4994-5000	5	47
216	Sonochemical synthesis of molybdenum oxide (MoO) microspheres anchored graphitic carbon nitride (g-CN) ultrathin sheets for enhanced electrochemical sensing of Furazolidone. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 50, 96-104	8.9	47
215	Synthesis and characterization of graphene-cobalt phthalocyanines and graphene-iron phthalocyanine composites and their enzymatic fuel cell application. <i>Renewable Energy</i> , <b>2015</b> , 74, 867-874	8.1	45
214	Hierarchically structured CuFe <sub>2</sub> O <sub>4</sub> ND@RGO composite for the detection of oxidative stress biomarker in biological fluids. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 944-950	6.8	44
213	Design of novel 3D flower-like neodymium molybdate: An efficient and challenging catalyst for sensing and destroying pulmonary toxicity antibiotic drug nitrofurantoin. <i>Chemical Engineering Journal</i> , <b>2018</b> , 346, 11-23	14.7	44
212	Highly sensitive determination of non-steroidal anti-inflammatory drug nimesulide using electrochemically reduced graphene oxide nanoribbons. <i>RSC Advances</i> , <b>2017</b> , 7, 33043-33051	3.7	44
211	Eco-friendly synthesis of Ag-NPs using <i>Cerasus serrulata</i> plant extract as catalytic, electrochemical reduction of 4-NPh and antibacterial activity. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 37, 330-339	6.3	44
210	Iron nanoparticles decorated graphene-multiwalled carbon nanotubes nanocomposite-modified glassy carbon electrode for the sensitive determination of nitrite. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 1015-1023	2.6	43
209	Robust and selective electrochemical detection of antibiotic residues: The case of integrated lutetium vanadate/graphene sheets architectures. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121304	12.8	42
208	Determination of Neurotransmitter in Biological and Drug Samples Using Gold Nanorods Decorated f-MWCNTs Modified Electrode. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, B370-B377	3.9	41
207	Simultaneous determination for toxic ractopamine and salbutamol in pork sample using hybrid carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 177, 428-436	8.5	39
206	Graphene Oxide Nanoribbons Film Modified Screen-Printed Carbon Electrode for Real-Time Detection of Methyl Parathion in Food Samples. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, B403-B408	3.8	39
205	Electrochemical detection of toxic ractopamine and salbutamol in pig meat and human urine samples by using poly taurine/zirconia nanoparticles modified electrodes. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 110, 242-7	6	38
204	Entrapment of bimetallic CoFeSe nanosphere on functionalized carbon nanofiber for selective and sensitive electrochemical detection of caffeic acid in wine samples. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1006, 22-32	6.6	37

203	Sonochemical synthesis of bismuth(III) oxide decorated reduced graphene oxide nanocomposite for detection of hormone (epinephrine) in human and rat serum. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 51, 103-110	8.9	37
202	Reduced graphene oxide supported raspberry-like SrWO <sub>4</sub> for sensitive detection of catechol in green tea and drinking water samples. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 89, 215-223	5.3	37
201	Synthesis and characterization of bimetallic nickel-cobalt chalcogenides (NiCoSe <sub>2</sub> , NiCo <sub>2</sub> S <sub>4</sub> , and NiCo <sub>2</sub> O <sub>4</sub> ) for non-enzymatic hydrogen peroxide sensor and energy storage: Electrochemical properties dependence on the metal-to-chalcogen composition. <i>Renewable Energy</i> , <b>2019</b> , 138, 139-151	8.1	36
200	The Immobilization of Glucose Oxidase at Manganese Dioxide Particles-Decorated Reduced Graphene Oxide Sheets for the Fabrication of a Glucose Biosensor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 15582-15589	3.9	36
199	Nitrite determination at electrochemically synthesized polydiphenylamine-Pt composite modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 177, 887-892	8.5	36
198	Facile and novel synthesis of palladium nanoparticles supported on a carbon aerogel for ultrasensitive electrochemical sensing of biomolecules. <i>Nanoscale</i> , <b>2017</b> , 9, 6486-6496	7.7	35
197	Fabrication of Platinum-Ruthenium Nanoparticle-Decorated Porous Carbons: Voltammetric Sensing of Furazolidone. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 3591-3605	8.3	35
196	Ruthenium Nanoparticles Decorated Tungsten Oxide as a Bifunctional Catalyst for Electrocatalytic and Catalytic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 31794-31805	9.5	35
195	Microwave-assisted synthesis of europium(III) oxide decorated reduced graphene oxide nanocomposite for detection of chloramphenicol in food samples. <i>Composites Part B: Engineering</i> , <b>2019</b> , 161, 29-36	10	35
194	Sonochemical synthesis of graphene oxide sheets supported Cu <sub>2</sub> S nanodots for high sensitive electrochemical determination of caffeic acid in red wine and soft drinks. <i>Composites Part B: Engineering</i> , <b>2019</b> , 158, 419-427	10	35
193	Carbon aerogel supported palladium-ruthenium nanoparticles for electrochemical sensing and catalytic reduction of food dye. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 257, 48-59	8.5	34
192	Design of Novel Ytterbium Molybdate Nanoflakes Anchored Carbon Nanofibers: Challenging Sustainable Catalyst for the Detection and Degradation of Assassination Weapon (Paraoxon-Ethyl). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 8615-8630	8.3	34
191	A novel synthesis of non-aggregated spinel nickel ferrite nanosheets for developing non-enzymatic reactive oxygen species sensor in biological samples. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 820, 161-167	4.1	33
190	Transition-Metal-Doped Molybdenum Diselenides with Defects and Abundant Active Sites for Efficient Performances of Enzymatic Biofuel Cell and Supercapacitor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 18483-18493	9.5	32
189	Highly selective determination of cysteine using a composite prepared from multiwalled carbon nanotubes and gold nanoparticles stabilized with calcium crosslinked pectin. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 727-735	5.8	32
188	Electrochemical determination of morin in Kiwi and Strawberry fruit samples using vanadium pentoxide nano-flakes. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 504, 626-632	9.3	31
187	Reduced Graphene Oxide Supported Cobalt Bipyridyl Complex for Sensitive Detection of Methyl Parathion in Fruits and Vegetables. <i>Electroanalysis</i> , <b>2017</b> , 29, 1950-1960	3	31
186	A core-shell molybdenum nanoparticles entrapped f-MWCNTs hybrid nanostructured material based non-enzymatic biosensor for electrochemical detection of dopamine neurotransmitter in biological samples. <i>Scientific Reports</i> , <b>2019</b> , 9, 13075	4.9	31

185	MoS <sub>2</sub> Flowers Grown on Graphene/Carbon Nanotubes: a Versatile Substrate for Electrochemical Determination of Hydrogen Peroxide. <i>International Journal of Electrochemical Science</i> , <b>2016</b> , 2954-2961	2.2	31
184	Graphene Nanoribbons in Electrochemical Sensors and Biosensors: A Review. <i>International Journal of Electrochemical Science</i> , <b>2018</b> , 6643-6654	2.2	31
183	Ex-situ decoration of graphene oxide with palladium nanoparticles for the highly sensitive and selective electrochemical determination of chloramphenicol in food and biological samples. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 89, 26-38	5.3	31
182	Preparation and characterization of a novel hybrid hydrogel composite of chitin stabilized graphite: Application for selective and simultaneous electrochemical detection of dihydroxybenzene isomers in water. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 785, 40-47	4.1	30
181	Electrodeposition of gold nanoparticles on a pectin scaffold and its electrocatalytic application in the selective determination of dopamine. <i>RSC Advances</i> , <b>2014</b> , 4, 55900-55907	3.7	30
180	Coherent design of palladium nanostructures adorned on the boron nitride heterojunctions for the unparalleled electrochemical determination of fatal organophosphorus pesticides. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 307, 127586	8.5	30
179	Simultaneous determination of dopamine and uric acid in the presence of high ascorbic acid concentration using cetyltrimethylammonium bromide/polyaniline/activated charcoal composite. <i>RSC Advances</i> , <b>2016</b> , 6, 100605-100613	3.7	30
178	Design and Construction of the Gadolinium Oxide Nanorod-Embedded Graphene Aerogel: A Potential Application for Electrochemical Detection of Postharvest Fungicide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 16216-16226	9.5	28
177	A new type of terbium diselenide nano octagon integrated oxidized carbon nanofiber: An efficient electrode material for electrochemical detection of morin in the food sample. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 269, 354-367	8.5	28
176	Determination of 8-hydroxy-2'-deoxyguanosine oxidative stress biomarker using dysprosium oxide nanoparticles@reduced graphene oxide. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 2885-2892	6.8	28
175	Ultrathin 2D graphitic carbon nitride nanosheets decorated with silver nanoparticles for electrochemical sensing of quercetin. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 826, 207-216	4.1	28
174	Defect and Additional Active Sites on the Basal Plane of Manganese-Doped Molybdenum Diselenide for Effective Enzyme Immobilization: In Vitro and in Vivo Real-Time Analyses of Hydrogen Peroxide Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 7862-7871	9.5	27
173	Hydrothermal synthesis of silver molybdate/reduced graphene oxide hybrid composite: An efficient electrode material for the electrochemical detection of tryptophan in food and biological samples. <i>Composites Part B: Engineering</i> , <b>2019</b> , 169, 249-257	10	27
172	One-Pot Biosynthesis of Reduced Graphene Oxide/Prussian Blue Microcubes Composite and Its Sensitive Detection of Prophylactic Drug Dimetridazole. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, B27-B33	3.9	27
171	Ultrasound treated cerium oxide/tin oxide (CeO/SnO) nanocatalyst: A feasible approach and enhanced electrode material for sensing of anti-inflammatory drug 5-aminosalicylic acid in biological samples. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1096, 76-88	6.6	27
170	Ultrasonic energy-assisted preparation of Cyclodextrin-carbon nanofiber composite: Application for electrochemical sensing of nitrofurantoin. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 52, 391-400	8.9	27
169	Synthesis and Characterization of Zirconium Dioxide Anchored Carbon Nanofiber Composite for Enhanced Electrochemical Determination of Chloramphenicol in Food Samples. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, B281-B288	3.9	26
168	MoN Nanorod/Sulfur-Doped Graphitic Carbon Nitride for Electrochemical Determination of Chloramphenicol. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 11088-11098	8.3	26

167	A novel design and synthesis of ruthenium sulfide decorated activated graphite nanocomposite for the electrochemical determination of antipsychotic drug chlorpromazine. <i>Composites Part B: Engineering</i> , <b>2019</b> , 168, 282-290	10	26
166	Development of novel 3D flower-like praseodymium molybdate decorated reduced graphene oxide: An efficient and selective electrocatalyst for the detection of acetylcholinesterase inhibitor methyl parathion. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 270, 353-361	8.5	26
165	Metallated porphyrin noncovalent interaction with reduced graphene oxide-modified electrode for amperometric detection of environmental pollutant hydrazine. <i>Applied Organometallic Chemistry</i> , <b>2017</b> , 31, e3703	3.1	25
164	Core-shell like Cu <sub>2</sub> O nanocubes enfolded with Co(OH) <sub>2</sub> on reduced graphene oxide for the amperometric detection of caffeine. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 2713-2721	5.8	25
163	Active-Site-Rich 1T-Phase CoMoSe Integrated Graphene Oxide Nanocomposite as an Efficient Electrocatalyst for Electrochemical Sensor and Energy Storage Applications. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 8358-8365	7.8	24
162	A relative study on sonochemically synthesized mesoporous WS nanorods & hydrothermally synthesized WS nanoballs towards electrochemical sensing of psychoactive drug (Clonazepam). <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 54, 79-89	8.9	24
161	Facile synthesis of perovskite-type NdNiO <sub>3</sub> nanoparticles for an effective electrochemical non-enzymatic glucose biosensor. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 11201-11207	3.6	24
160	Effects of annealing temperature on crystal structure and glucose sensing properties of cuprous oxide. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 266, 655-663	8.5	23
159	Sonochemical synthesis of perovskite-type barium titanate nanoparticles decorated on reduced graphene oxide nanosheets as an effective electrode material for the rapid determination of ractopamine in meat samples. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 56, 318-326	8.9	22
158	Hydrothermal synthesis of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles as an efficient electrocatalyst for the electrochemical detection of bisphenol A. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 7698-7707	3.6	22
157	Enhanced sensing of hazardous 4-nitrophenol by a graphene oxide/TiO <sub>2</sub> composite: environmental pollutant monitoring applications. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 4590-4603	3.6	22
156	Simple sonochemical synthesis of novel grass-like vanadium disulfide: A viable non-enzymatic electrochemical sensor for the detection of hydrogen peroxide. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 48, 473-481	8.9	22
155	Gold Nanoparticle Embedded on a Reduced Graphene Oxide/polypyrrole Nanocomposite: Voltammetric Sensing of Furazolidone and Flutamide. <i>Langmuir</i> , <b>2020</b> , 36, 13949-13962	4	22
154	Graphene Oxide/MnO <sub>2</sub> Binary Nanosheets Based Non-Enzymatic Biosensor for Pico-Molar Level Electrochemical Detection of Biomarker (Guanine) in DNA Sample. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, B651-B658	3.9	22
153	Synthesis of Two-Dimensional Sr-Doped MoSe <sub>2</sub> Nanosheets and Their Application for Efficient Electrochemical Reduction of Metronidazole. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 12474-12484	3.8	22
152	[email protected] Nanoparticle/Carbon Nanotube Nanocomposite with Superior Electrocatalytic Activity for Electrochemical Detection of Toxic Mercury(II). <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 1943-1952 <sup>21</sup>	4	21
151	Hierarchical construction and characterization of lanthanum molybdate nanospheres as an unassailable electrode material for electrocatalytic sensing of the antibiotic drug nitrofurantoin. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 46-54	3.6	21
150	Hydrothermal Synthesis of Three Dimensional Graphene-Multiwalled Carbon Nanotube Nanocomposite for Enhanced Electro Catalytic Oxidation of Caffeic Acid. <i>Electroanalysis</i> , <b>2017</b> , 29, 1103-1112 <sup>20</sup>	3	20

149	Voltammetric determination of vitamin B by using a highly porous carbon electrode modified with palladium-copper nanoparticles. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 299	5.8	20
148	Facile synthesis of mesoporous WS nanorods decorated N-doped RGO network modified electrode as portable electrochemical sensing platform for sensitive detection of toxic antibiotic in biological and pharmaceutical samples. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 56, 430-436	8.9	20
147	Ultrafine gold nanoparticle embedded poly(diallyldimethylammonium chloride)graphene oxide hydrogels for voltammetric determination of an antimicrobial drug (metronidazole). <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 7575-7590	7.1	20
146	Facile sonochemical synthesis of porous and hierarchical manganese(III) oxide tiny nanostructures for super sensitive electrocatalytic detection of antibiotic (chloramphenicol) in fresh milk. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 58, 104648	8.9	20
145	Designing novel perovskite-type strontium stannate (SrSnO <sub>3</sub> ) and its potential as an electrode material for the enhanced sensing of anti-inflammatory drug mesalamine in biological samples. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 12264-12274	3.6	20
144	Fabrication of g-CN Nanomesh-Anchored Amorphous NiCoPO: Tuned Cycling Life and the Dynamic Behavior of a Hybrid Capacitor. <i>ACS Omega</i> , <b>2018</b> , 3, 18694-18704	3.9	20
143	Electrochemical detection of toxic anti-scald agent diphenylamine using oxidized carbon nanofiber encapsulated titanium carbide electrocatalyst. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 368, 760-770	12.8	19
142	A novel electrochemical sensor for the detection of oxidative stress and cancer biomarker (4-nitroquinoline N-oxide) based on iron nitride nanoparticles with multilayer reduced graphene nanosheets modified electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 291, 120-129	8.5	19
141	A robust Mn@FeNi-S/graphene oxide nanocomposite as a high-efficiency catalyst for the non-enzymatic electrochemical detection of hydrogen peroxide. <i>Nanoscale</i> , <b>2020</b> , 12, 5961-5972	7.7	19
140	Ultrasonic-assisted preparation and characterization of magnetic ZnFeO/g-CN nanomaterial and their applications towards electrocatalytic reduction of 4-nitrophenol. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 68, 105071	8.9	19
139	Electrochemical synthesis of dysprosium hexacyanoferrate micro stars incorporated multi walled carbon nanotubes and its electrocatalytic applications. <i>Electrochimica Acta</i> , <b>2013</b> , 105, 439-446	6.7	19
138	Sol-Gel Synthesis of Carbon-Coated LaCoO <sub>3</sub> for Effective Electrocatalytic Oxidation of Salicylic Acid. <i>ChemElectroChem</i> , <b>2017</b> , 4, 935-940	4.3	18
137	Facile, low-temperature synthesis of tungsten carbide (WC) flakes for the sensitive and selective electrocatalytic detection of dopamine in biological samples. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 2024-2034	6.8	18
136	A straightforward ultrasonic-assisted synthesis of zinc sulfide for supersensitive detection of carcinogenic nitrite ions in water samples. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 305, 127387	8.5	18
135	Sr-Doped NiO <sub>3</sub> nanorods synthesized by a simple sonochemical method as excellent materials for voltammetric determination of quercetin. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 2821-2832	3.6	18
134	Facile synthesis of copper ferrite nanoparticles with chitosan composite for high-performance electrochemical sensor. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 63, 104902	8.9	18
133	Simple sonochemical synthesis of lanthanum tungstate (La(WO)) nanoparticles as an enhanced electrocatalyst for the selective electrochemical determination of anti-scald-inhibitor diphenylamine. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 58, 104647	8.9	17
132	Enzyme-free electrocatalytic sensing of hydrogen peroxide using a glassy carbon electrode modified with cobalt nanoparticle-decorated tungsten carbide. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 265	5.8	17



131	Two-Dimensional Copper Tungstate Nanosheets: Application toward the Electrochemical Detection of Mesalazine. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 18279-18287	8.3	17
130	Two-dimensional binary nanosheets (Bi <sub>2</sub> Te <sub>3</sub> @g-C <sub>3</sub> N <sub>4</sub> ): Application toward the electrochemical detection of food toxic chemical. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1125, 220-230	6.6	17
129	Rational Design and Interlayer Effect of Dysprosium-Stannate Nanoplatelets Incorporated Graphene Oxide: A Versatile and Competent Electrocatalyst for Toxic Carbamate Pesticide Detection in Vegetables. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 17882-17892	8.3	17
128	Determination of the antioxidant propyl gallate in meat by using a screen-printed electrode modified with CoSe nanoparticles and reduced graphene oxide. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 520	5.8	17
127	Sonochemical synthesis of nickel-manganous oxide nanocrumbs decorated partially reduced graphene oxide for efficient electrochemical reduction of metronidazole. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 68, 105176	8.9	16
126	A nanocomposite consisting of cuprous oxide supported on graphitic carbon nitride nanosheets for non-enzymatic electrochemical sensing of 8-hydroxy-2'-deoxyguanosine. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 459	5.8	16
125	Rational construction of novel strontium hexaferrite decorated graphitic carbon nitrides for highly sensitive detection of neurotoxic organophosphate pesticide in fruits. <i>Electrochimica Acta</i> , <b>2021</b> , 371, 137756	6.7	16
124	Ecofriendly preparation of graphene sheets decorated with an ethylenediamine copper(II) complex composite modified electrode for the selective detection of hydroquinone in water. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 490-500	6.8	16
123	Developing green sonochemical approaches towards the synthesis of highly integrated and interconnected carbon nanofiber decorated with SmO nanoparticles and their use in the electrochemical detection of toxic 4-nitrophenol. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 58, 104595	8.9	15
122	One-pot sonochemical synthesis of BiWO nanospheres with multilayer reduced graphene nanosheets modified electrode as rapid electrochemical sensing platform for high sensitive detection of oxidative stress biomarker in biological sample. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 57, 233-241	8.9	15
121	Ultrasound-assisted synthesis of BiMnS (alabandite) nanoparticles decorated reduced graphene oxide hybrids: Enhanced electrocatalyst for electrochemical detection of Parkinson's disease biomarker. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 56, 378-385	8.9	15
120	Enzymatic glucose biosensor based on bismuth nanoribbons electrochemically deposited on reduced graphene oxide. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 2165-2172	5.8	15
119	Highly sensitive electrode materials for the voltammetric determination of nitrofurantoin based on zinc cobaltate nanosheets. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 12036-12047	3.6	15
118	The facile co-precipitation synthesis of strontium tungstate anchored on a boron nitride (SrWO <sub>4</sub> /BN) composite as a promising electrocatalyst for pharmaceutical drug analysis. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 2489-2499	3.6	15
117	Functionalized Carbon Black Nanospheres Hybrid with MoS <sub>2</sub> Nanoclusters for the Effective Electrocatalytic Reduction of Chloramphenicol. <i>Electroanalysis</i> , <b>2018</b> , 30, 1828-1836	3	15
116	A Green Approach to the Synthesis of Well-structured Prussian Blue Cubes for the Effective Electrocatalytic Reduction of Antiprotozoal Agent Coccidiostat Nicarbazin. <i>Electroanalysis</i> , <b>2018</b> , 30, 1669-1677	3	15
115	Ultrasonication and hydrothermal assisted synthesis of cloud-like zinc molybdate nanospheres for enhanced detection of flutamide. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 61, 104823	8.9	15
114	Facile synthesis and characterization of erbium oxide (ErO) nanospheres embellished on reduced graphene oxide nanomatrix for trace-level detection of a hazardous pollutant causing Methemoglobinemia. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 56, 422-429	8.9	15

113	Electrochemical sensing of free radical antioxidant diphenylamine cations (DPAH <sup>•+</sup> ) with carbon interlaced nanoflake-assembled Mg <sub>9</sub> Ni <sub>9</sub> S <sub>8</sub> microspheres. <i>CrystEngComm</i> , <b>2019</b> , 21, 724-735	3.3	14
112	Facile synthesis of copper(II) oxide nanospheres covered on functionalized multiwalled carbon nanotubes modified electrode as rapid electrochemical sensing platform for super-sensitive detection of antibiotic. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 58, 104596	8.9	14
111	Sonochemical synthesis and fabrication of perovskite type calcium titanate interfacial nanostructure supported on graphene oxide sheets as a highly efficient electrocatalyst for electrochemical detection of chemotherapeutic drug. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 69, 105242	8.9	14
110	Highly Sensitive Determination of Folic Acid Using Graphene Oxide Nanoribbon Film Modified Screen Printed Carbon Electrode. <i>International Journal of Electrochemical Science</i> , <b>2017</b> , 475-484	2.2	14
109	Design of novel WO <sub>3</sub> /CB nanohybrids: An affordable and efficient electrochemical sensor for the detection of multifunctional flavonoid rutin. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 1085-1093	6.8	14
108	Highly Sensitive and Selective Detection of Phenolic Compound in River and Drinking Water Samples Using One-Pot Synthesized 3D Cobalt Oxide Polyhedrons. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, B463-B469	3.9	14
107	One-pot synthesis of rod-shaped gadolinia doped zinc oxide decorated on graphene oxide composite as an efficient electrode material for isoprenaline sensor. <i>Composites Part B: Engineering</i> , <b>2021</b> , 211, 108631	10	14
106	A novel sensitive and reliable electrochemical determination of palmatine based on CeO <sub>2</sub> /RGO/MWCNT ternary composite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 96, 549-558	5.3	14
105	A simple sonochemical assisted synthesis of NiMoO <sub>4</sub> /chitosan nanocomposite for electrochemical sensing of amlodipine in pharmaceutical and serum samples. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 64, 104827	8.9	14
104	An Ultra-sensitive Electrochemical Sensor for the Detection of Oxidative Stress Biomarker 3-Nitro-L-tyrosine in Human Blood Serum and Saliva Samples Based on Reduced Graphene Oxide Entrapped Zirconium (IV) Oxide. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 066517	3.9	14
103	Microwave-assisted synthesis of gadolinium(III) oxide decorated reduced graphene oxide nanocomposite for detection of hydrogen peroxide in biological and clinical samples. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 837, 167-174	4.1	13
102	Evaluating an effective electrocatalyst for the rapid determination of triptan drug (Maxalt <sup>®</sup> ) from (mono and binary) transition metal (Co, Mn, CoMn, MnCo) oxides via electrochemical approaches. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 605-613	3.6	13
101	Effects of sonochemical approach and induced contraction of core-shell bismuth sulfide/graphitic carbon nitride as an efficient electrode materials for electrocatalytic detection of antibiotic drug in foodstuffs. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 72, 105445	8.9	13
100	A novel hybrid construction of MnMoO <sub>4</sub> nanorods anchored graphene nanosheets; an efficient electrocatalyst for the picomolar detection of ecological pollutant ornidazole in water and urine samples. <i>Chemosphere</i> , <b>2021</b> , 273, 129665	8.4	13
99	Bismuth telluride decorated on graphitic carbon nitrides based binary nanosheets: Its application in electrochemical determination of salbutamol (feed additive) in meat samples. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125265	12.8	13
98	Nanomolar level detection of non-steroidal antiandrogen drug flutamide based on ZnMnO nanoparticles decorated porous reduced graphene oxide nanocomposite electrode. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124096	12.8	13
97	Sonochemical synthesis and fabrication of honeycomb like zirconium dioxide with chitosan modified electrode for sensitive electrochemical determination of anti-tuberculosis (TB) drug. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 59, 104718	8.9	12
96	Synthesis, characterization and catalytic performance of nanostructured dysprosium molybdate catalyst for selective biomolecule detection in biological and pharmaceutical samples. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 5065-5077	7.3	12

95	One-pot synthesis of three-dimensional MnO microcubes for high-level sensitive detection of head and neck cancer drug nimorazole. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 505, 1193-1201	9.3	12
94	Methyl Parathion Detection Using SnS <sub>2</sub> /N, SiO <sub>2</sub> -Doped Reduced Graphene Oxide Nanocomposite. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 11194-11203	8.3	12
93	A sonochemical assisted synthesis of hollow sphere structured tin (IV) oxide on graphene oxide sheets for the low-level detection of environmental pollutant mercury in biological samples and foodstuffs. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 67, 105164	8.9	11
92	A binder-free Ni <sub>2</sub> P <sub>2</sub> O <sub>7</sub> /Co <sub>2</sub> P <sub>2</sub> O <sub>7</sub> nanograin array as an efficient cathode for supercapacitors. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 13131-13140	3.6	11
91	A feasible sonochemical approach to synthesize CuO@CeO nanomaterial and their enhanced non-enzymatic sensor performance towards neurotransmitter. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 63, 104903	8.9	11
90	Using cerium (III) orthovanadate as an efficient catalyst for the electrochemical sensing of anti-prostate cancer drug (flutamide) in biological fluids. <i>Microchemical Journal</i> , <b>2020</b> , 159, 105509	4.8	11
89	Tailoring of bismuth vanadate impregnated on molybdenum/graphene oxide sheets for sensitive detection of environmental pollutants 2, 4, 6 trichlorophenol. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 211, 111934	7	11
88	Design and Fabrication of Yttrium Ferrite Garnet-Embedded Graphitic Carbon Nitride: A Sensitive Electrocatalyst for Smartphone-Enabled Point-of-Care Pesticide (Mesotrione) Analysis in Food Samples. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 24865-24876	9.5	11
87	Ultrasonic preparation and nanosheets supported binary metal oxide nanocomposite for the effective application towards the electrochemical sensor. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 64, 105007	8.9	10
86	Ultrasonication assisted synthesis of NiO nanoparticles anchored on graphene oxide: an enzyme-free glucose sensor with ultrahigh sensitivity. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 15071-15080	3.6	10
85	Electrochemical Study of Nitrobenzene Reduction Using Potentiostatic Preparation of nephrolepis Leaf Like Silver Microstructure. <i>International Journal of Electrochemical Science</i> , <b>2016</b> , 6164-6172	2.2	10
84	Deep eutectic solvents synthesis of perovskite type cerium aluminate embedded carbon nitride catalyst: High-sensitive amperometric platform for sensing of glucose in biological fluids. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 102, 312-320	6.3	10
83	A novel nanocomposite with superior electrocatalytic activity: A magnetic property based ZnFeO nanocubes embellished with reduced graphene oxide by facile ultrasonic approach. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 57, 116-124	8.9	9
82	Rapid sonochemical synthesis of silver nano-leaves encapsulated on iron pyrite nanocomposite: An excellent catalytic application in the electrochemical detection of herbicide (Acifluorfen). <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 54, 90-98	8.9	9
81	Simple synthesis of CoSn(OH) <sub>6</sub> nanocubes for the rapid electrochemical determination of rutin in the presence of quercetin and acetaminophen. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 11271-11281	3.6	9
80	Sonochemical synthesis of graphitic carbon nitrides-wrapped bimetal oxide nanoparticles hybrid materials and their electrocatalytic activity for xanthine electro-oxidation. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 64, 105006	8.9	9
79	A sensitive electrochemical determination of chemotherapy agent using graphitic carbon nitride covered vanadium oxide nanocomposite; sonochemical approach. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 58, 104664	8.9	9
78	Investigation of sonochemically synthesized sphere-like metal tungstate nanocrystals decorated activated carbon sheets network and its application towards highly sensitive detection of arsenic drug in biological samples. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2020</b> , 114, 211-219	5.3	9

77	Ultrafine Bi-Sn nanoparticles decorated on carbon aerogels for electrochemical simultaneous determination of dopamine (neurotransmitter) and clozapine (antipsychotic drug). <i>Nanoscale</i> , <b>2020</b> , 12, 22217-22233	7.7	9
76	Electrochemical Determination of Isoniazid Using Gallic Acid Supported Reduced Graphene Oxide. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, H503-H508	3.9	8
75	Simultaneous and sensitive detection of dopamine and uric acid based on cobalt oxide-decorated graphene oxide composite. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 12595-12607	2.1	8
74	Cobalt-tungsten diselenide-supported nickel foam as a battery-type positive electrode for an asymmetric supercapacitor device: comparison with various MWSe (M = Ni, Cu, Zn, and Mn) on the structural and capacitance characteristics. <i>Nanoscale</i> , <b>2020</b> , 12, 15752-15766	7.7	8
73	Sonochemical synthesis and fabrication of neodymium sesquioxide entrapped with graphene oxide based hierarchical nanocomposite for highly sensitive electrochemical sensor of anti-cancer (raloxifene) drug. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 64, 104717	8.9	8
72	Highly Selective Voltammetric Sensor for L-Tryptophan Using Composite-Modified Electrode Composed of CuSn(OH) <sub>6</sub> Microsphere Decorated on Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25821-25834	3.8	8
71	Glutathione and cystamine functionalized MoS <sub>2</sub> -shell nanoparticles for enhanced electrochemical detection of doxorubicin. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 35	5.8	8
70	Electrocatalytic evaluation of graphene oxide warped tetragonal t-lanthanum vanadate (GO@LaVO) nanocomposites for the voltammetric detection of antifungal and antiprotozoal drug (clioquinol). <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 102	5.8	8
69	High-performance catalytic strips assembled with BiOBr Nano-rose architectures for electrochemical and SERS detection of theophylline. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 130616	14.7	8
68	An Ultra-Sensitive Electrochemical Sensor for the Detection of Carcinogen Oxidative Stress 4-Nitroquinoline N-Oxide in Biologic Matrices Based on Hierarchical Spinel Structured NiCoO and NiCoS; A Comparative Study. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	7
67	A La <sup>3+</sup> -doped TiO <sub>2</sub> nanoparticle decorated functionalized-MWCNT catalyst: novel electrochemical non-enzymatic sensing of paraoxon-ethyl. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 3033-3049	5.1	7
66	Ni-Doped ZrO nanoparticles decorated MW-CNT nanocomposite for the highly sensitive electrochemical detection of 5-amino salicylic acid. <i>Analyst, The</i> , <b>2021</b> , 146, 664-673	5	7
65	An electrochemical platform for the selective detection of azathioprine utilizing a screen-printed carbon electrode modified with manganese oxide/reduced graphene oxide. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 3640-3651	3.6	7
64	Cadmium sulfide quantum dots anchored on reduced graphene oxide for the electrochemical detection of metronidazole. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 3022-3033	3.6	7
63	Facile synthesis of ultrathin NiSnO <sub>3</sub> nanoparticles for enhanced electrochemical detection of an antibiotic drug in water bodies and biological samples. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 10604-10612	3.6	6
62	Improving sensitivity of antimicrobial drug nitrofurazone detection in food and biological samples based on nanostructured anatase-titania sheathed reduced graphene oxide. <i>Nanotechnology</i> , <b>2020</b> , 31, 445502	3.4	6
61	Facile sonochemical synthesis of rutile-type titanium dioxide microspheres decorated graphene oxide composite for efficient electrochemical sensor. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 62, 104872	8.9	6
60	FeMn layered double hydroxides: an efficient bifunctional electrocatalyst for real-time tracking of cysteine in whole blood and dopamine in biological samples. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 8249-8260	7.3	6

59	Platelet-structured strontium titanate perovskite decorated on graphene oxide as a nanocatalyst for electrochemical determination of neurotransmitter dopamine. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 18431-18441	3.6	6
58	Fabrication of p-n Junction (Ni/Zn)O and Reduced Graphene Oxide (rGO) Nanocomposites for the Electrocatalysis of Analgesic Drug (Acetaminophen) Detection in Pharmaceutical and Biological Samples. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 036501	3.9	6
57	Sonochemical synthesis of copper vanadate nanoparticles for the highly selective voltammetric detection of antibiotic drug ornidazole. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 867, 159019	5.7	6
56	Designing hybrid barium tungstate on functionalized carbon black as electrode modifier for low potential detection of antihistamine drug promethazine hydrochloride. <i>Composites Part B: Engineering</i> , <b>2021</b> , 215, 108789	10	6
55	Synthesis of highly electroactive nanoflowers like manganesetin oxide and electroanalytical application for chloramphenicol determination in milk and honey samples. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 880, 114914	4.1	6
54	An eco-friendly low-temperature synthetic approach towards micro-pebble-structured GO@SrTiO nanocomposites for the detection of 2,4,6-trichlorophenol in environmental samples. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 72	5.8	6
53	Deep eutectic solvent synthesis of iron vanadate-decorated sulfur-doped carbon nanofiber nanocomposite: electrochemical sensing tool for doxorubicin. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 303	5.8	6
52	Massive engineering of spinel cobalt tin oxide/tin oxide-based electrocatalyst for the selective voltammetric determination of antibiotic drug furaltadone in water samples. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 882, 160750	5.7	6
51	Preparation of three dimensional flower-like cobalt phosphate as dual functional electrocatalyst for flavonoids sensing and supercapacitor applications. <i>Ceramics International</i> , <b>2021</b> , 47, 29688-29706	5.1	6
50	Synthesis of Flower-Like Iron Oxide Capped Tripolyphosphate for Electrochemical Detection of Carbadox Drugs in Meat. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, B555-B561	3.9	5
49	Synergistic activity of binary metal sulphide WS <sub>2</sub> /RuS <sub>2</sub> nanospheres for the electrochemical detection of the antipsychotic drug promazine. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 4621-4630	3.6	5
48	High-Efficiency of Bi-Functional-Based Perovskite Nanocomposite for Oxygen Evolution and Oxygen Reduction Reaction: An Overview. <i>Materials</i> , <b>2021</b> , 14,	3.5	5
47	Polyol mediated synthesis of hexagonal manganese cobaltate nanoparticles for voltammetric determination of thioridazine. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 621, 126625	5.1	5
46	Rational Construction of SiO <sub>2</sub> /MoS <sub>2</sub> /TiO <sub>2</sub> Composite Nanostructures for Anti-Biofouling and Anti-Corrosion Applications. <i>ChemistrySelect</i> , <b>2021</b> , 6, 917-927	1.8	5
45	Ultrasonic assisted preparation of CoMoO <sub>4</sub> nanoparticles modified electrochemical sensor for chloramphenicol determination. <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 302, 122392	3.3	5
44	Facile one-step synthesis of Ni@CeO <sub>2</sub> nanoparticles towards high performance voltammetric sensing of antipsychotic drug trifluoperazine. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 882, 160682	5.7	5
43	Exploring the electrocatalytic application of two-dimensional samarium molybdate (Sm <sub>3</sub> (MoO <sub>4</sub> ) <sub>3</sub> ) nanoplatelets for the selective sensing of the organophosphate insecticide oxyparathion. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 4285-4294	3.6	4
42	High-performance electrochemical sensing of hazardous pesticide Paraoxon using BiVO nano dendrites equipped catalytic strips. <i>Chemosphere</i> , <b>2021</b> , 132511	8.4	4

41	Floret-like manganese doped tin oxide anchored reduced graphene oxide for electrochemical detection of dimetridazole in milk and egg samples. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 631, 127733	5.1	4
40	Interfacial Influence of Strontium Niobium Engulfed Reduced Graphene Oxide Composite for Sulfamethazine Detection: Employing an Electrochemical Route in Real Samples. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 057512	3.9	4
39	Copper sulfide nano-globules reinforced electrodes for high-performance electrochemical determination of toxic pollutant hydroquinone. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 3215-3223	3.6	4
38	Highly selective voltammetric detection of antipsychotic drug thioridazine hydrochloride based on NiO@Gd <sub>2</sub> O <sub>3</sub> modified screen printed carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 895, 115535	4.1	4
37	Facile solvothermal synthesis of ultrathin spinel ZnMn <sub>2</sub> O <sub>4</sub> nanospheres: An efficient electrocatalyst for in vivo and in vitro real time monitoring of H <sub>2</sub> O <sub>2</sub> . <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 900, 115674	4.1	4
36	Additive-free synthesis of BiVO <sub>4</sub> microspheres as an electrochemical sensor for determination of antituberculosis drug rifampicin. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 624, 126849	5.1	4
35	Electrochemical Sensors and Biosensors for Redox Analytes Implicated in Oxidative Stress: Review. <i>International Journal of Electrochemical Science</i> , <b>2020</b> , 7064-7081	2.2	3
34	Sonochemical preparation of carbon nanosheets supporting cuprous oxide architecture for high-performance and non-enzymatic electrochemical sensor in biological samples. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 66, 105072	8.9	3
33	Review of MoSe <sub>2</sub> Nanostructures and Related Electrodes for Advanced Supercapacitor Developments. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 013503	3.9	3
32	Fabrication of Thulium Metal-Organic Frameworks Based Smartphone Sensor Towards Arsenical Feed Additive Drug Detection: Applicable in Food Safety Analysis. <i>Electrochimica Acta</i> , <b>2021</b> , 139487	6.7	3
31	Impact of gadolinium oxide with functionalized carbon nanosphere: A portable advanced electrocatalyst for pesticide detection in aqueous environmental samples. <i>Talanta</i> , <b>2022</b> , 238, 123028	6.2	3
30	Samarium vanadate nanospheres integrated carbon nanofiber composite as an efficient electrocatalyst for antituberculosis drug detection in real samples. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 617, 126385	5.1	3
29	MoS <sub>2</sub> Sphere/2D S-Ti <sub>3</sub> C <sub>2</sub> MXene Nanocatalysts on Laser-Induced Graphene Electrodes for Hazardous Aristolochic Acid and Roxarsone Electrochemical Detection. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 3252-3264	5.6	3
28	Surface engineering of 3D spinel Zn <sub>3</sub> V <sub>2</sub> O <sub>8</sub> wrapped on sulfur doped graphitic nitride composites: Investigation on the dual role of electrocatalyst for simultaneous detection of antibiotic drugs in biological fluids. <i>Composites Part B: Engineering</i> , <b>2022</b> , 110017	10	3
27	Fabrication of Flexible and Efficient Dye Sensitized Solar Cells Using Modified TiO <sub>2</sub> Electrode at Low-Temperature Annealing Process. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2017</b> , 12, 872-879	1.3	2
26	Simple construction of GdBiVO <sub>4</sub> assembled on reduced graphene oxide for selective and sensitive electrochemical detection of chloramphenicol in food samples. <i>New Journal of Chemistry</i> ,	3.6	2
25	Ultrafine rhenium Ruthenium nanoparticles decorated on functionalized carbon nanotubes for the simultaneous determination of antibiotic (nitrofurantoin) and anti-testosterone (flutamide) drugs. <i>Journal of Materials Chemistry C</i> ,	7.1	2
24	A disposable electrode modified with metal orthovanadate and sulfur-reduced graphene oxide for electrochemical detection of anti-rheumatic drug. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 19858-19867	3.6	2

23	A Novel High-Performance Electrocatalytic Determination Platform for Voltammetric Sensing of Eugenol in Acidic Media using Pyrochlore Structured Lanthanum Stannate Nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 106, 103-103	6.3	2
22	Sonochemical approach to the synthesis of metal tungstate/nafion composite with electrocatalytic properties and its electrochemical sensing performance. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 66, 104901	8.9	2
21	An electrochemical assay for the detection of nitrofurantoin based on bismuth titanate enclosed carbon nanofiber in environmental and biological samples. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 887, 115152	4.1	2
20	Green sonochemical synthesis and fabrication of cubic MnFeO electrocatalyst decorated carbon nitride nanohybrid for neurotransmitter detection in serum samples. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 70, 105305	8.9	2
19	Electrochemical sensors for $\beta$ -adrenoceptor agonist isoprenaline analysis in human urine and serum samples using manganese cobalt oxide-modified glassy carbon electrode. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 9084-9095	3.6	2
18	Development of an electrochemical sensor based on a cobalt oxide/tin oxide composite for determination of antibiotic drug ornidazole. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 12593-12605	3.6	2
17	Synergistic photocatalytic activity of SnO <sub>2</sub> /PANI nanocomposite for the removal of direct blue 15 under UV light irradiation. <i>Ceramics International</i> , <b>2021</b> , 47, 29225-29231	5.1	2
16	Polyol-assisted synthesis of spinel-type magnesium cobalt oxide nanochains for voltammetric determination of the antipsychotic drug thioridazine. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 898, 115600	4.1	2
15	Fabricating BiOI nanostructures armed catalytic strips for selective electrochemical and SERS detection of pesticide in polluted water.. <i>Environmental Pollution</i> , <b>2021</b> , 296, 118754	9.3	1
14	Pr-TiO <sub>2</sub> Decorated Functionalized-Carbon Nano Tubes for Highly Selective Detection of Tryptophan in Pharmaceutical Samples for Neurotransmitter Treatment. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 057532	3.9	1
13	A Neoteric Double Perovskite Gd <sub>2</sub> NiMnO <sub>6</sub> Nanostructure Electrocatalyst for Augmented Detection of Ecological Pollutant 2, 4, 6 Trichlorophenol. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 077515	3.9	1
12	Ultrasound assisted synthesis of silver titanate for the differential pulse voltammetric determination of antibiotic drug metronidazole. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2021</b> , 134, 114865	3	1
11	Temperature abetted synthesis of novel magnesium stannate nanoparticles assisted for nanomolar level detection of hazardous flavonoid in biological samples. <i>Food Chemistry</i> , <b>2021</b> , 361, 130162	8.5	1
10	Bismuth sulfide/zinc-doped graphitic carbon nitride nanocomposite for electrochemical detection of hazardous nitric oxide. <i>Journal of Electroanalytical Chemistry</i> , <b>2022</b> , 910, 116174	4.1	1
9	Hydrothermally constructed AgWO <sub>3</sub> -rGO nanocomposites as an electrode enhancer for ultrasensitive electrochemical detection of hazardous herbicide crisquat.. <i>Chemosphere</i> , <b>2022</b> , 299, 134434	8.4	1
8	Designing of cerium-doped bismuth vanadate nanorods/functionalized-MWCNT nanocomposite for the high toxicity of 4-cyanophenol herbicide detection in human urine sample. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 639, 128371	5.1	0
7	. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	0
6	Electrochemical sensor based on cerium niobium oxide nanoparticles modified electrode for sensing of environmental toxicity in water samples. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 637, 128277	5.1	0

5	Rational design of manganese oxide/tin oxide hybrid nanocomposite based electrochemical sensor for detection of prochlorperazine (Antipsychotic drug). <i>Microchemical Journal</i> , <b>2022</b> , 175, 107082	4.8	○
4	One step construction of crystal rod like Bi <sub>2</sub> O <sub>3</sub> /ZnO nanocomposite for voltammetry determination of isoprenaline in pharmaceutical and urine sample. <i>Microchemical Journal</i> , <b>2022</b> , 172, 106894	4.8	○
3	Facile synthesis of Co(II)-doped cobalt oxide nanostructures: their application in the sensitive determination of the prophylactic drug furazolidone. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 12738-12749	3.6	○
2	Graphitic carbon nitride nanosheets incorporated with polypyrrole nanocomposite: A sensitive metal-free electrocatalyst for determination of antibiotic drug nitrofurantoin. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 629, 127433	5.1	○
1	In-situ construction of ternary metal oxide heterostructures Mn@LaZrO: A novel multi-functional nanocatalyst for detecting environmental hazardous 4-nitroaniline. <i>Chemical Engineering Journal</i> , <b>2022</b> , 446, 137025	14.7	○