

# Umamaheswari Rajaji

## List of Publications by Year in descending order

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262  
papers

10,682  
citations

31949

53  
h-index

60583

81  
g-index

262  
all docs

262  
docs citations

262  
times ranked

7806  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2013, 41, 309-315.	5.3	355
2	Highly selective amperometric nitrite sensor based on chemically reduced graphene oxide modified electrode. <i>Electrochemistry Communications</i> , 2012, 17, 75-78.	2.3	283
3	Dopamine sensor based on a glassy carbon electrode modified with a reduced graphene oxide and palladium nanoparticles composite. <i>Mikrochimica Acta</i> , 2013, 180, 1037-1042.	2.5	175
4	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> , 2017, 9, 6547-6559.	4.0	170
5	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> , 2015, 3, 15529-15539.	5.2	163
6	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> , 2017, 485, 129-136.	5.0	153
7	Methyl parathion detection in vegetables and fruits using silver@graphene nanoribbons nanocomposite modified screen printed electrode. <i>Scientific Reports</i> , 2017, 7, 46471.	1.6	152
8	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> , 2014, 53, 420-427.	5.3	151
9	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> , 2018, 6, 16021-16031.	3.2	137
10	3D graphene oxide-cobalt oxide polyhedrons for highly sensitive non-enzymatic electrochemical determination of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 773-783.	4.0	131
11	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> , 2016, 475, 46-56.	5.0	129
12	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> , 2016, 8, 22545-22553.	4.0	126
13	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> , 2016, 183, 2267-2275.	2.5	121
14	Highly selective amperometric sensor for the trace level detection of hydrazine at bismuth nanoparticles decorated graphene nanosheets modified electrode. <i>Talanta</i> , 2014, 124, 43-51.	2.9	112
15	Innovative Strategy Based on a Novel Carbon-Black <sup>®</sup> -Cyclodextrin Nanocomposite for the Simultaneous Determination of the Anticancer Drug Flutamide and the Environmental Pollutant 4-Nitrophenol. <i>Analytical Chemistry</i> , 2018, 90, 6283-6291.	3.2	107
16	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> , 2017, 7, 11910.	1.6	104
17	Electrodeposition of copper nanoparticles using pectin scaffold at graphene nanosheets for electrochemical sensing of glucose and hydrogen peroxide. <i>Electrochimica Acta</i> , 2015, 176, 804-810.	2.6	101
18	Electrochemical preparation of activated graphene oxide for the simultaneous determination of hydroquinone and catechol. <i>Journal of Colloid and Interface Science</i> , 2017, 500, 54-62.	5.0	99

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19	Nanocomposites composed of layered molybdenum disulfide and graphene for highly sensitive amperometric determination of methyl parathion. <i>Mikrochimica Acta</i> , 2017, 184, 725-733.	2.5	97
20	Rapid microwave assisted synthesis of graphene nanosheets/polyethyleneimine/gold nanoparticle composite and its application to the selective electrochemical determination of dopamine. <i>Talanta</i> , 2014, 120, 148-157.	2.9	94
21	Electrocatalysis and simultaneous determination of catechol and quinol by poly(malachite green) coated multiwalled carbon nanotube film. <i>Analytical Biochemistry</i> , 2011, 411, 71-79.	1.1	93
22	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> , 2012, 173, 274-280.	4.0	90
23	Simplistic synthesis of ultrafine CoMnO <sub>3</sub> nanosheets: An excellent electrocatalyst for highly sensitive detection of toxic 4-nitrophenol in environmental water samples. <i>Journal of Hazardous Materials</i> , 2019, 361, 123-133.	6.5	86
24	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> , 2014, 135, 260-269.	2.6	85
25	Biosynthesis of silver nanoparticles by using <i>Camellia japonica</i> leaf extract for the electrocatalytic reduction of nitrobenzene and photocatalytic degradation of Eosin-Y. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 170, 164-172.	1.7	85
26	Electrochemically synthesized Pt@MnO <sub>2</sub> composite particles for simultaneous determination of catechol and hydroquinone. <i>Sensors and Actuators B: Chemical</i> , 2012, 169, 235-242.	4.0	83
27	Graphene oxide encapsulated 3D porous chalcocopyrite (CuFeS <sub>2</sub> ) nanocomposite as an emerging electrocatalyst for agro-hazardous (methyl paraoxon) detection in vegetables. <i>Composites Part B: Engineering</i> , 2019, 160, 268-276.	5.9	83
28	Bimetallic vanadium cobalt diselenide nanosheets with additional active sites for excellent asymmetric pseudocapacitive performance: comparing the electrochemical performances with NiCoSe <sub>2</sub> (M = Zn, Mn, and Cu). <i>Journal of Materials Chemistry A</i> , 2019, 7, 12565-12581.	5.2	81
29	A facile graphene oxide based sensor for electrochemical detection of prostate anti-cancer (anti-testosterone) drug flutamide in biological samples. <i>RSC Advances</i> , 2017, 7, 25702-25709.	1.7	80
30	3D Flower-Like Gadolinium Molybdate Catalyst for Efficient Detection and Degradation of Organophosphate Pesticide (Fenitrothion). <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 15652-15664.	4.0	80
31	A new electrochemical sensor for highly sensitive and selective detection of nitrite in food samples based on sonochemical synthesized Calcium Ferrite (CaFe <sub>2</sub> O <sub>4</sub> ) clusters modified screen printed carbon electrode. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 417-426.	5.0	80
32	Detection of Pesticide Residues (Fenitrothion) in Fruit Samples Based On Niobium Carbide@Molybdenum Nanocomposite: An Electrocatalytic Approach. <i>Analytica Chimica Acta</i> , 2018, 1030, 52-60.	2.6	80
33	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> , 2017, 501, 77-85.	5.0	78
34	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> , 2019, 162, 33-42.	5.9	78
35	Synthesis and characterization of bimetallic nickel-cobalt chalcogenides (NiCoSe <sub>2</sub> , NiCo <sub>2</sub> S <sub>4</sub> , and NiCo <sub>3</sub> S <sub>4</sub> ) and their electrocatalytic properties dependence on the metal-to-chalcogen composition. <i>Renewable Energy</i> , 2019, 138, 139-151.	4.3	77
36	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> , 2018, 346, 11-23.	6.6	75

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37	Robust and selective electrochemical detection of antibiotic residues: The case of integrated lutetium vanadate/graphene sheets architectures. <i>Journal of Hazardous Materials</i> , 2020, 384, 121304.	6.5	75
38	MoN Nanorod/Sulfur-Doped Graphitic Carbon Nitride for Electrochemical Determination of Chloramphenicol. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11088-11098.	3.2	72
39	Sonochemical synthesis of molybdenum oxide (MoO <sub>3</sub> ) microspheres anchored graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) ultrathin sheets for enhanced electrochemical sensing of Furazolidone. <i>Ultrasonics Sonochemistry</i> , 2019, 50, 96-104.	3.8	69
40	Direct electrochemistry of cytochrome c immobilized on a graphene oxide-carbon nanotube composite for picomolar detection of hydrogen peroxide. <i>RSC Advances</i> , 2014, 4, 28229-28237.	1.7	68
41	A voltammetric determination of caffeic acid in red wines based on the nitrogen doped carbon modified glassy carbon electrode. <i>Scientific Reports</i> , 2017, 7, 45924.	1.6	68
42	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> , 2018, 152, 220-230.	5.9	68
43	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> , 2017, 184, 3625-3634.	2.5	67
44	Eco-friendly synthesis of Ag-NPs using <i>Cerasus serrulata</i> plant extract - Its catalytic, electrochemical reduction of 4-NPh and antibacterial activity. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 330-339.	2.9	64
45	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> , 2018, 272, 274-281.	4.0	62
46	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> , 2019, 9, 13075.	1.6	62
47	Entrapment of bimetallic CoFeSe <sub>2</sub> nanosphere on functionalized carbon nanofiber for selective and sensitive electrochemical detection of caffeic acid in wine samples. <i>Analytica Chimica Acta</i> , 2018, 1006, 22-32.	2.6	61
48	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> , 2018, 6, 8615-8630.	3.2	61
49	Carbon aerogel supported palladium-ruthenium nanoparticles for electrochemical sensing and catalytic reduction of food dye. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 48-59.	4.0	59
50	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> , 2019, 161, 29-36.	5.9	59
51	Fabrication of Platinum-Rhenium Nanoparticle-Decorated Porous Carbons: Voltammetric Sensing of Furazolidone. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3591-3605.	3.2	57
52	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> , 2013, 110, 242-247.	2.5	56
53	Synthesis and characterization of graphene-cobalt phthalocyanines and graphene-iron phthalocyanine composites and their enzymatic fuel cell application. <i>Renewable Energy</i> , 2015, 74, 867-874.	4.3	56
54	Ultrathin 2D graphitic carbon nitride nanosheets decorated with silver nanoparticles for electrochemical sensing of quercetin. <i>Journal of Electroanalytical Chemistry</i> , 2018, 826, 207-216.	1.9	56

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55	Determination of Neurotransmitter in Biological and Drug Samples Using Gold Nanorods Decorated MWCNTs Modified Electrode. <i>Journal of the Electrochemical Society</i> , 2018, 165, B370-B377.	1.3	56
56	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> , 2019, 51, 103-110.	3.8	56
57	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> , 2019, 11, 18483-18493.	4.0	54
58	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> , 2020, 44, 7698-7707.	1.4	54
59	Highly sensitive determination of non-steroidal anti-inflammatory drug nimesulide using electrochemically reduced graphene oxide nanoribbons. <i>RSC Advances</i> , 2017, 7, 33043-33051.	1.7	53
60	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> , 2020, 8, 17882-17892.	3.2	53
61	Porous carbon-modified electrodes as highly selective and sensitive sensors for detection of dopamine. <i>Analyst</i> , 2014, 139, 4994.	1.7	51
62	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> , 2017, 164, B403-B408.	1.3	51
63	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> , 2019, 158, 419-427.	5.9	51
64	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> , 2020, 307, 127586.	4.0	51
65	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> , 2020, 12, 16216-16226.	4.0	51
66	Ruthenium Nanoparticles Decorated Tungsten Oxide as a Bifunctional Catalyst for Electrocatalytic and Catalytic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 31794-31805.	4.0	50
67	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> , 2014, 18, 1015-1023.	1.2	49
68	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> , 2018, 5, 944-950.	3.0	49
69	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> , 2022, 5, 3252-3264.	2.4	49
70	Simultaneous determination for toxic ractopamine and salbutamol in pork sample using hybrid carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 428-436.	4.0	48
71	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> , 2019, 168, 282-290.	5.9	47
72	Facile and novel synthesis of palladium nanoparticles supported on a carbon aerogel for ultrasensitive electrochemical sensing of biomolecules. <i>Nanoscale</i> , 2017, 9, 6486-6496.	2.8	46

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73	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> , 2018, 89, 215-223.	2.7	46
74	Fabrication of g-C <sub>3</sub> N <sub>4</sub> Nanomesh-Anchored Amorphous NiCoP <sub>2</sub> O <sub>7</sub> : Tuned Cycling Life and the Dynamic Behavior of a Hybrid Capacitor. <i>ACS Omega</i> , 2018, 3, 18694-18704.	1.6	45
75	Determination of 8-hydroxy-2- $\alpha$ -deoxyguanosine oxidative stress biomarker using dysprosium oxide nanoparticles@reduced graphene oxide. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2885-2892.	3.0	45
76	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> , 2018, 270, 353-361.	4.0	45
77	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> , 2019, 169, 249-257.	5.9	45
78	Ultrasonic energy-assisted preparation of $\beta$ -cyclodextrin-carbon nanofiber composite: Application for electrochemical sensing of nitrofurantoin. <i>Ultrasonics Sonochemistry</i> , 2019, 52, 391-400.	3.8	45
79	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> , 2018, 89, 26-38.	2.7	44
80	Active-Site-Rich 1T-Phase CoMoSe <sub>2</sub> Integrated Graphene Oxide Nanocomposite as an Efficient Electrocatalyst for Electrochemical Sensor and Energy Storage Applications. <i>Analytical Chemistry</i> , 2019, 91, 8358-8365.	3.2	44
81	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> , 0, , 2954-2961.	0.5	43
82	Reduced Graphene Oxide Supported Cobalt Bipyridyl Complex for Sensitive Detection of Methyl Parathion in Fruits and Vegetables. <i>Electroanalysis</i> , 2017, 29, 1950-1960.	1.5	43
83	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> , 2018, 820, 161-167.	1.9	43
84	Graphene Nanoribbons in Electrochemical Sensors and Biosensors: A Review. <i>International Journal of Electrochemical Science</i> , 2018, 13, 6643-6654.	0.5	43
85	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> , 2018, 269, 354-367.	4.0	43
86	Ultrasound treated cerium oxide/tin oxide (CeO <sub>2</sub> /SnO <sub>2</sub> ) 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> , 2020, 1096, 76-88.	2.6	43
87	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> , 2020, 12, 5961-5972.	2.8	43
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> , 2021, 13, 24865-24876.	4.0	42
89	Electrochemical determination of morin in Kiwi and Strawberry fruit samples using vanadium pentoxide nano-flakes. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 626-632.	5.0	41
90	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> , 2018, 165, B27-B33.	1.3	41

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91	Simple sonochemical synthesis of lanthanum tungstate (La <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> ) nanoparticles as an enhanced electrocatalyst for the selective electrochemical determination of anti-scald-inhibitor diphenylamine. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104647.	3.8	41
92	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> , 2016, 6, 100605-100613.	1.7	40
93	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> , 2020, 44, 4590-4603.	1.4	40
94	Electrodeposition of gold nanoparticles on a pectin scaffold and its electrocatalytic application in the selective determination of dopamine. <i>RSC Advances</i> , 2014, 4, 55900-55907.	1.7	39
95	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> , 2014, 53, 15582-15589.	1.8	39
96	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> , 2018, 122, 12474-12484.	1.5	39
97	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> , 2018, 165, B281-B288.	1.3	39
98	Nitrite determination at electrochemically synthesized polydiphenylamine-Pt composite modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 887-892.	4.0	38
99	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> , 2017, 785, 40-47.	1.9	38
100	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> , 2019, 11, 7862-7871.	4.0	38
101	Gold Nanoparticle Embedded on a Reduced Graphene Oxide/polypyrrole Nanocomposite: Voltammetric Sensing of Furazolidone and Flutamide. <i>Langmuir</i> , 2020, 36, 13949-13962.	1.6	38
102	Ultrasonic-assisted preparation and characterization of magnetic ZnFe <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanomaterial and their applications towards electrocatalytic reduction of 4-nitrophenol. <i>Ultrasonics Sonochemistry</i> , 2020, 68, 105071.	3.8	38
103	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> , 2015, 182, 727-735.	2.5	37
104	Facile synthesis of mesoporous WS <sub>2</sub> 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> , 2019, 56, 430-436.	3.8	37
105	Nanomolar level detection of non-steroidal antiandrogen drug flutamide based on ZnMn <sub>2</sub> O <sub>4</sub> nanoparticles decorated porous reduced graphene oxide nanocomposite electrode. <i>Journal of Hazardous Materials</i> , 2021, 405, 124096.	6.5	37
106	Metallated porphyrin noncovalent interaction with reduced graphene oxide-modified electrode for amperometric detection of environmental pollutant hydrazine. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3703.	1.7	36
107	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> , 2018, 48, 473-481.	3.8	36
108	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> , 2019, 56, 318-326.	3.8	36

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109	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> , 2020, 1125, 220-230.	2.6	36
110	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> , 2021, 273, 129665.	4.2	35
111	Sr@FeNi-S Nanoparticle/Carbon Nanotube Nanocomposite with Superior Electrocatalytic Activity for Electrochemical Detection of Toxic Mercury(II). <i>ACS Applied Electronic Materials</i> , 2020, 2, 1943-1952.	2.0	34
112	Effects of annealing temperature on crystal structure and glucose sensing properties of cuprous oxide. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 655-663.	4.0	33
113	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> , 2020, 44, 2821-2832.	1.4	33
114	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> , 2020, 44, 46-54.	1.4	33
115	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> , 2021, 102, 312-320.	2.9	33
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122	Rational construction of novel strontium hexaferrite decorated graphitic carbon nitrides for highly sensitive detection of neurotoxic organophosphate pesticide in fruits. <i>Electrochimica Acta</i> , 2021, 371, 137756.	2.6	32
123	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> , 2021, 72, 105445.	3.8	32
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132	Facile synthesis of copper ferrite nanoparticles with chitosan composite for high-performance electrochemical sensor. <i>Ultrasonics Sonochemistry</i> , 2020, 63, 104902.	3.8	30
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138	High-performance electrochemical sensing of hazardous pesticide Paraoxon using BiVO <sub>4</sub> nano dendrites equipped catalytic strips. <i>Chemosphere</i> , 2022, 288, 132511.	4.2	28
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142	Ultrasonic assisted preparation of CoMoO <sub>4</sub> nanoparticles modified electrochemical sensor for chloramphenicol determination. <i>Journal of Solid State Chemistry</i> , 2021, 302, 122392.	1.4	27
143	Ultrasonication and hydrothermal assisted synthesis of cloud-like zinc molybdate nanospheres for enhanced detection of flutamide. <i>Ultrasonics Sonochemistry</i> , 2020, 61, 104823.	3.8	27
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182	Highly Sensitive Determination of Folic Acid Using Graphene Oxide Nanoribbon Film Modified Screen Printed Carbon Electrode. <i>International Journal of Electrochemical Science</i> , 2017, 12, 475-484.	0.5	19
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219	Electrochemical Study of Nitrobenzene Reduction Using Potentiostatic Preparation of Leaf Like Silver Microstructure. <i>International Journal of Electrochemical Science</i> , 2016, 11, 6164-6172.	0.5	12
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