

# Paramasivam Balasuramanian

## List of Publications by Citations

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134  
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134  
ext. papers

3,779  
ext. citations

6.7  
avg, IF

6.17  
L-index

#	Paper	IF	Citations
134	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	13	128
133	Sonochemical Synthesis of Sulfur Doped Reduced Graphene Oxide Supported CuS Nanoparticles for the Non-Enzymatic Glucose Sensor Applications. <i>Scientific Reports</i> , <b>2017</b> , 7, 2494	4.9	103
132	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
131	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
130	Electrochemical properties of the acetaminophen on the screen printed carbon electrode towards the high performance practical sensor applications. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 483, 109-117	9.3	61
129	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
128	Trace level electrochemical determination of the neurotransmitter dopamine in biological samples based on iron oxide nanoparticle decorated graphene sheets. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 705-718	6.8	55
127	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
126	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
125	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
124	Bimetallic vanadium cobalt diselenide nanosheets with additional active sites for excellent asymmetric pseudocapacitive performance: comparing the electrochemical performances with MoSe <sub>2</sub> (M = Zn, Mn, and Cu). <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12565-12581	13	48
123	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
122	Facile Solvothermal Preparation of MnCuO Microspheres: Excellent Electrocatalyst for Real-Time Detection of HO Released from Live Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43543-43551	9.5	46
121	Two-dimensional metal chalcogenides analogous NiSe nanosheets and its efficient electrocatalytic performance towards glucose sensing. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 507, 378-385	9.3	45
120	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> , <b>2016</b> , 37, 330-339	6.3	44
119	Facile synthesis of hierarchically nanostructured bismuth vanadate: An efficient photocatalyst for degradation and detection of hexavalent chromium. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 367, 647-657	12.8	42
118	Sonochemical driven simple preparation of nitrogen-doped carbon quantum dots/SnO <sub>2</sub> nanocomposite: A novel electrocatalyst for sensitive voltammetric determination of riboflavin. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 281, 602-612	8.5	42

117	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
116	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
115	Assessment of divergent functional properties of seed-like strontium molybdate for the photocatalysis and electrocatalysis of the postharvest scald inhibitor diphenylamine. <i>Journal of Catalysis</i> , <b>2017</b> , 352, 606-616	7.3	36
114	Electrochemical Determination of Caffeic Acid in Wine Samples Using Reduced Graphene Oxide/Polydopamine Composite. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, B726-B731	3.9	36
113	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
112	One-step sonochemical synthesis of 1D Bismuth tungstate nanorods: An efficient and excellent electrocatalyst for the selective electrochemical detection of antipsychotic drug chlorpromazine. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 44, 231-239	8.9	35
111	Electrocatalytic reduction of nitroaromatic compounds by activated graphite sheets in the presence of atmospheric oxygen molecules. <i>Journal of Catalysis</i> , <b>2017</b> , 356, 43-52	7.3	35
110	Synthesis and Characterization of Samarium-Substituted Molybdenum Diselenide and Its Graphene Oxide Nanohybrid for Enhancing the Selective Sensing of Chloramphenicol in a Milk Sample. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29712-29723	9.5	34
109	Rational Design of [email protected]2O Nanospheres Anchored B, N Co-doped Mesoporous Carbon: A Sustainable Electrocatalyst To Assay Eminent Neurotransmitters Acetylcholine and Dopamine. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5669-5680	8.3	34
108	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
107	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
106	Electrochemical synthesis of nitrogen-doped carbon quantum dots decorated copper oxide for the sensitive and selective detection of non-steroidal anti-inflammatory drug in berries. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 523, 191-200	9.3	32
105	Fabrication of europium doped molybdenum diselenide nanoflower based electrochemical sensor for sensitive detection of diphenylamine in apple juice. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 273, 616-626	8.5	32
104	Studies on the influence of Cyclodextrin on graphene oxide and its synergistic activity to the electrochemical detection of nitrobenzene. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 490, 365-371	9.3	32
103	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
102	Flame synthesis of nitrogen doped carbon for the oxygen reduction reaction and non-enzymatic methyl parathion sensor. <i>RSC Advances</i> , <b>2016</b> , 6, 71507-71516	3.7	30
101	Voltammetric sensing of sulfamethoxazole using a glassy carbon electrode modified with a graphitic carbon nitride and zinc oxide nanocomposite. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 396	5.8	30
100	Synthesis and application of bismuth ferrite nanosheets supported functionalized carbon nanofiber for enhanced electrochemical detection of toxic organic compound in water samples. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 514, 59-69	9.3	29

99	Evaluation of a new electrochemical sensor for selective detection of non-enzymatic hydrogen peroxide based on hierarchical nanostructures of zirconium molybdate. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 500, 44-53	9.3	28
98	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
97	N-doped carbon quantum dots @ hexagonal porous copper oxide decorated multiwall carbon nanotubes: A hybrid composite material for an efficient ultra-sensitive determination of caffeic acid. <i>Composites Part B: Engineering</i> , <b>2019</b> , 174, 106973	10	27
96	A selective electrochemical sensor for caffeic acid and photocatalyst for metronidazole drug pollutant - A dual role by rod-like SrVO. <i>Scientific Reports</i> , <b>2017</b> , 7, 7254	4.9	27
95	Novel hydrothermal synthesis of MoS <sub>2</sub> nanocluster structure for sensitive electrochemical detection of human and environmental hazardous pollutant 4-aminophenol. <i>RSC Advances</i> , <b>2016</b> , 6, 40399-40407	3.7	27
94	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
93	Defects engineered 2D ultrathin cobalt hydroxide nanosheets as highly efficient electrocatalyst for non-enzymatic electrochemical sensing of glucose and l-cysteine. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 320, 128374	8.5	26
92	Electrochemical synthesis of poly(3,4-ethylenedioxythiophene) on terbium hexacyanoferrate for sensitive determination of tartrazine. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 256, 195-203	8.5	26
91	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
90	Novel Bifunctional Electrocatalyst for ORR Activity and Methyl Parathion Detection Based on Reduced Graphene Oxide/Palladium Tetraphenylporphyrin Nanocomposite. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 14096-14107	3.8	25
89	A novel, efficient electrochemical sensor for the detection of isoniazid based on the B/N doped mesoporous carbon modified electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 283, 613-620	8.5	25
88	Facile Synthesis of Spinel-Type Copper Cobaltite Nanoplates for Enhanced Electrocatalytic Detection of Acetylcholine. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 7642-7651	8.3	24
87	Protein-Supported RuO Nanoparticles with Improved Catalytic Activity, In Vitro Salt Resistance, and Biocompatibility: Colorimetric and Electrochemical Biosensing of Cellular HO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 14876-14883	9.5	24
86	Hexamine cobalt(III) coordination complex grafted reduced graphene oxide composite for sensitive and selective electrochemical determination of morin in fruit samples. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 1145-1155	6.8	24
85	Amperometric sensing of nitrite at nanomolar concentrations by using carboxylated multiwalled carbon nanotubes modified with titanium nitride nanoparticles. <i>Mikrochimica Acta</i> , <b>2018</b> , 186, 8	5.8	24
84	Synthesis of rose like structured LaCoO <sub>3</sub> assisted functionalized carbon nanofiber nanocomposite for efficient electrochemical detection of anti-inflammatory drug 4-aminoantipyrine. <i>Electrochimica Acta</i> , <b>2018</b> , 260, 571-581	6.7	24
83	Ultrasensitive non-enzymatic electrochemical sensing of glucose in noninvasive samples using interconnected nanosheets-like NiMnO <sub>3</sub> as a promising electrocatalyst. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 299, 126974	8.5	23
82	One pot synthesis of nanospheres-like trimetallic NiFeCo nanoalloy: A superior electrocatalyst for electrochemical sensing of hydrazine in water bodies. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 296, 126620	8.5	22

81	Biocompatible chitosan-pectin polyelectrolyte complex for simultaneous electrochemical determination of metronidazole and metribuzin. <i>Carbohydrate Polymers</i> , <b>2019</b> , 214, 317-327	10.3	22
80	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
79	Chitosan Stabilized Multi-Walled Carbon Nanotubes for Electrochemical Determination of Dihydroxybenzene Isomers. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, H958-H966	3.9	22
78	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
77	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
76	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
75	Engineering of oxygen vacancies regulated core-shell N-doped carbon@NiFe <sub>2</sub> O <sub>4</sub> nanospheres: A superior bifunctional electrocatalyst for boosting the kinetics of oxygen and hydrogen evolution reactions. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126732	14.7	20
74	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
73	Highly selective electrochemical detection of antipsychotic drug chlorpromazine in drug and human urine samples based on peas-like strontium molybdate as an electrocatalyst. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 643-655	6.8	19
72	Osmium nanozyme as peroxidase mimic with high performance and negligible interference of O <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 25226-25234	13	19
71	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
70	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
69	Cobalt molybdenum sulfide decorated with highly conductive sulfur-doped carbon as an electrocatalyst for the enhanced activity of hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 9164-9173	6.7	18
68	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
67	High capacity supercapacitor material based on reduced graphene oxide loading mesoporous murdochite-type Ni <sub>6</sub> MnO <sub>8</sub> nanospheres. <i>Electrochimica Acta</i> , <b>2016</b> , 219, 284-294	6.7	18
66	A high-performance fluorescent probe for dopamine detection based on g-CN nanofibers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 212, 300-307	4.4	18
65	Ultrasound-assisted synthesis of two-dimensional layered ytterbium substituted molybdenum diselenide nanosheets with excellent electrocatalytic activity for the electrochemical detection of diphenylamine anti-scald agent in fruit extract. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 50, 265-277	8.9	18
64	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

63	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
62	One-pot cascade catalysis at neutral pH driven by CuO tandem nanozyme for ascorbic acid and alkaline phosphatase detection. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 321, 128511	8.5	17
61	Facile synthesis of orthorhombic strontium copper oxide microflowers for highly sensitive nonenzymatic detection of glucose in human blood. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2017</b> , 81, 182-189	5.3	17
60	Amorphous cobalt boride nanosheets anchored surface-functionalized carbon nanofiber: An bifunctional and efficient catalyst for electrochemical sensing and oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 580, 318-331	9.3	17
59	Hierarchical multi-layered molybdenum carbide encapsulated oxidized carbon nanofiber for selective electrochemical detection of antimicrobial agents: inter-connected path in multi-layered structure for efficient electron transfer. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 1680-1693	6.8	16
58	In situ assembly of sulfur-doped carbon quantum dots surrounded iron(III) oxide nanocomposite; a novel electrocatalyst for highly sensitive detection of antipsychotic drug olanzapine. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 268, 471-480	6	16
57	Optimized electrochemical synthesis of copper nanoparticles decorated reduced graphene oxide: Application for enzymeless determination of glucose in human blood. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 807, 128-136	4.1	16
56	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
55	A sensitive and high-performance electrochemical detection of nitrite in water samples based on Sonochemical synthesized Strontium Ferrite Nanochain architectures. <i>Electrochimica Acta</i> , <b>2020</b> , 360, 136797	6.7	15
54	Synthesis and characterization of nanostructured nickel phosphate as a robust electrocatalyst for the highly sensitive voltammetric determination of chlorpromazine in biological sample. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 93, 11-20	5.3	14
53	Construction of strontium phosphate/graphitic-carbon nitride: A flexible and disposable strip for acetaminophen detection. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 410, 124542	12.8	14
52	Low potential detection of antiprotozoal drug metronidazole with aid of novel dysprosium vanadate incorporated oxidized carbon nanofiber modified disposable screen-printed electrode. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 407, 124745	12.8	14
51	A novel hybrid construction of MnMoO 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
50	A highly conducting flower like Au nanoparticles interconnected functionalized CNFs and its enhanced electrocatalytic activity towards hydrazine through direct electron transfer. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 82, 64-74	5.3	13
49	A facile low-temperature synthesis of V <sub>2</sub> O <sub>5</sub> flakes for electrochemical detection of hydrogen peroxide sensor. <i>Ionics</i> , <b>2017</b> , 23, 2193-2200	2.7	12
48	Solid-state thiolate-stabilized copper nanoclusters with ultrahigh photoluminescence quantum yield for white light-emitting devices. <i>Nanoscale</i> , <b>2020</b> , 12, 15791-15799	7.7	12
47	Oxygen vacancy confined nickel cobaltite nanostructures as an excellent interface for the enzyme-free electrochemical sensing of extracellular H <sub>2</sub> O <sub>2</sub> secreted from live cells. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 14050-14059	3.6	10
46	Design and investigation of ytterbium tungstate nanoparticles: An efficient catalyst for the sensitive and selective electrochemical detection of antipsychotic drug chlorpromazine. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 96, 509-519	5.3	10

45	Synthesis and characterization of manganese diselenide nanoparticles (MnSeNPs): Determination of capsaicin by using MnSeNP-modified glassy carbon electrode. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 313	5.8	10
44	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
43	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
42	Hydrothermal Synthesis of CrSe Hexagons for Sensitive and Low-level Detection of 4-Nitrophenol in Water. <i>Scientific Reports</i> , <b>2018</b> , 8, 4839	4.9	9
41	Simple hydrothermal synthesis of defective CeMoSe <sub>2</sub> dendrites as an effective electrocatalyst for the electrochemical sensing of 4-nitrophenol in water samples. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 17200-17210	3.6	10
40	Electrochemical reduction of Procardia drug with aid of silver phosphate/strontium phosphate nanoparticles (AgP/SrP NPs) modified glassy carbon electrode. <i>Microchemical Journal</i> , <b>2020</b> , 159, 105565	4.8	9
39	Construction of metal-free oxygen-doped graphitic carbon nitride as an electrochemical sensing platform for determination of antimicrobial drug metronidazole. <i>Applied Surface Science</i> , <b>2021</b> , 556, 149814	6.7	9
38	Porous-coral-like cerium doped tungsten oxide/graphene oxide micro balls: A robust electrochemical sensing platform for the detection of antibiotic residue. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 628, 127275	5.1	9
37	Ultrasound-induced radicals initiated the formation of inorganic-organic PrO/polystyrene hybrid composite for electro-oxidative determination of chemotherapeutic drug methotrexate. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 56, 410-421	8.9	8
36	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
35	Electrochemical sensing of anti-inflammatory agent in paramedical sample based on FeMoSe modified SPCE: Comparison of various preparation methods and morphological effects. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1083, 88-100	6.6	8
34	Bimetallic AgAu decorated MWCNTs enable robust nonenzyme electrochemical sensors for in-situ quantification of dopamine and H <sub>2</sub> O <sub>2</sub> biomarkers expelled from PC-12 cells. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 878, 114554	4.1	8
33	Ultrasound supported synthesis of tantalum carbide integrated functionalized carbon composite for the voltammetric determination of the antibacterial drug nitrofurantoin in pharmaceutical samples. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 342	5.8	7
32	3D Flower-like NiCo Layered Double Hydroxides: An Efficient Electrocatalyst for Non-Enzymatic Electrochemical Biosensing of Hydrogen Peroxide in Live Cells and Glucose in Biofluids.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 3203-3213	4.1	7
31	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
30	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
29	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
28	Facile synthesis of hexagonal-shaped zinc doped cobalt oxide: Application for electroanalytical determination of antibacterial drug ofloxacin in urine samples. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 885, 115101	4.1	6

27	Simple strategy synthesis of manganese cobalt oxide anchored on graphene oxide composite as an efficient electrocatalyst for hazardous 4-nitrophenol detection in toxic tannery waste. <i>Microchemical Journal</i> , <b>2021</b> , 168, 106514	4.8	6
26	6-Aza-2-Thio-Thymine Stabilized Gold Nanoclusters as Photoluminescent Probe for Protein Detection. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	5
25	Rational construction of N,S-doped carbon wrapped MnFe <sub>2</sub> O <sub>4</sub> nanospheres with copious oxygen deficiency as extremely efficient and robust electrocatalyst for urea electrocatalysis. <i>Journal of Power Sources</i> , <b>2021</b> , 494, 229757	8.9	5
24	Synthesis of BixMoyOz/BiaWbOc nanocomposite by pH tuning with high electrochemical performance. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 832, 303-310	4.1	5
23	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
22	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
21	Highly sensitive electrochemical sensor based on carbon-rich graphitic carbon nitride as an electrocatalyst for the detection of diphenylamine. <i>Microchemical Journal</i> , <b>2020</b> , 159, 105587	4.8	4
20	Bismuth molybdate incorporated functionalized carbon nanofiber as an electrocatalytic tool for the pinpoint detection of organic pollutant in life samples. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 209, 111828	7	4
19	2D-Titanium carbide MXene/RGO composite modified electrode for selective detection of carcinogenic residue furazolidone in food and biological samples. <i>Materials Letters</i> , <b>2021</b> , 297, 129979	3.3	4
18	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
17	Platinum group element-based nanozymes for biomedical applications: An overview. <i>Biomedical Materials (Bristol)</i> , <b>2020</b> ,	3.5	3
16	3D Honey-Comb like Nitrogen Self-Doped Porous Carbon Networks for High-Performance Electrochemical Detection of Antibiotic Drug Furazolidone. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 047503	3.9	3
15	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
14	Boron carbon oxyphosphide heterostructured nanodots with phosphate tunable emission for switchable dual detection channels of 6-mercaptopurine assay. <i>Talanta</i> , <b>2021</b> , 226, 122067	6.2	3
13	Efficient and green synthesis of silver nanocomposite using guar gum for voltammetric determination of diphenylamine. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 1289-1302 <sup>21</sup>		3
12	Vanadium carbide and nitrogen-doped graphene nanosheets based layered architecture for electrochemical evaluation of cloiquinol detection and energy storage application. <i>Electrochimica Acta</i> , <b>2022</b> , 408, 139930	6.7	2
11	Surface engineering of gadolinium oxide nanoseeds with nitrogen-doped carbon quantum dots: an efficient nanocomposite for precise detection of antibiotic drug cloiquinol. <i>New Journal of Chemistry</i> ,	3.6	2
10	Electrochemical sensor based on cobalt ruthenium sulfide nanoparticles embedded on boron nitrogen co-doped reduced graphene oxide for the determination of nitrite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 637, 128271	5.1	2



9	Electrocatalytic detection of noxious antioxidant diphenylamine in fruit samples with support of Cu@nanoporous carbon modified sensor.. <i>Chemosphere</i> , <b>2021</b> , 292, 133400	8.4	2
8	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
7	Hybrid ternary nanocomposite of N-doped carbon quantum dots@SnO <sub>2</sub> /multiwall carbon nanotubes: A robust and sensitive electrocatalyst for the detection of antineoplastic agent gallic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 641, 128544	5.1	1
6	Efficient Electrocatalyst for Hydrogen Evolution Reaction based on N-rGO-MWCNT/CuAlO <sub>2</sub> Nanocomposite in Acidic Media. <i>ECS Journal of Solid State Science and Technology</i> , <b>2021</b> , 10, 045011	2	1
5	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
4	Nanoarchitected nickel phosphate integrated with graphene oxide for the toxicant diphenylamine detection in food samples. <i>Journal of Food Composition and Analysis</i> , <b>2022</b> , 104628	4.1	1
3	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
2	Potentiostatic oxidation of N-doped algae-derived carbon for P-nitrophenol sensitive determination. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 876, 114736	4.1	0
1	Facile Hydrothermal Synthesis of Manganese Sulfide Nanoelectrocatalyst for High Sensitive Detection of Bisphenol A in Food and Eco-samples. <i>Food Chemistry</i> , <b>2022</b> , 133316	8.5	0