

Nagaraj P Shetti

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4901260/nagaraj-p-shetti-publications-by-citations.pdf>

Version: 2024-04-25

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.

232
papers

7,340⁰
citations

52
h-index

77
g-index

243
ext. papers

10,072
ext. citations

5.5
avg, IF

7.19
L-index

#	Paper	IF	Citations
232	Graphitic carbon nitride (g-C ₃ N ₄) based metal-free photocatalysts for water splitting: A review. <i>Carbon</i> , 2019 , 149, 693-721	10.4	412
231	Polymeric graphitic carbon nitride (g-CN)-based semiconducting nanostructured materials: Synthesis methods, properties and photocatalytic applications. <i>Journal of Environmental Management</i> , 2019 , 238, 25-40	7.9	232
230	ZnO-based nanostructured electrodes for electrochemical sensors and biosensors in biomedical applications. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111417	11.8	199
229	Role of conducting polymer and metal oxide-based hybrids for applications in amperometric sensors and biosensors. <i>Microchemical Journal</i> , 2019 , 147, 7-24	4.8	181
228	Photocatalytic recovery of H ₂ from H ₂ S containing wastewater: Surface and interface control of photo-excitons in Cu ₂ S@TiO ₂ core-shell nanostructures. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 174-185	21.8	167
227	A review on frontiers in plasmonic nano-photocatalysts for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10453-10472	6.7	148
226	Band gap tuning and surface modification of carbon dots for sustainable environmental remediation and photocatalytic hydrogen production - A review. <i>Journal of Environmental Management</i> , 2019 , 250, 109486	7.9	140
225	Metal-organic frameworks (MOFs)-based efficient heterogeneous photocatalysts: Synthesis, properties and its applications in photocatalytic hydrogen generation, CO ₂ reduction and photodegradation of organic dyes. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7656-7679	6.7	132
224	Waste-to-energy nexus for circular economy and environmental protection: Recent trends in hydrogen energy. <i>Science of the Total Environment</i> , 2020 , 713, 136633	10.2	129
223	Sensors based on ruthenium-doped TiO nanoparticles loaded into multi-walled carbon nanotubes for the detection of flufenamic acid and mefenamic acid. <i>Analytica Chimica Acta</i> , 2019 , 1051, 58-72	6.6	124
222	Nanostructured titanium oxide hybrids-based electrochemical biosensors for healthcare applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 178, 385-394	6	122
221	Electrochemical detection and degradation of textile dye Congo red at graphene oxide modified electrode. <i>Microchemical Journal</i> , 2019 , 146, 387-392	4.8	106
220	Hetero-nanostructured metal oxide-based hybrid photocatalysts for enhanced photoelectrochemical water splitting [A review]. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18331-18347	6.7	106
219	An electrochemical sensor for clozapine at ruthenium doped TiO ₂ nanoparticles modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2017 , 247, 858-867	8.5	102
218	Efficient removal of toxic organic dyes and photoelectrochemical properties of iron-doped zirconia nanoparticles. <i>Chemosphere</i> , 2020 , 239, 124766	8.4	102
217	Biosensor nanoengineering: Design, operation, and implementation for biomolecular analysis. <i>Sensors International</i> , 2020 , 1, 100040	6.1	99
216	Electrochemical behavior of an antiviral drug acyclovir at fullerene-C(60)-modified glassy carbon electrode. <i>Bioelectrochemistry</i> , 2012 , 88, 76-83	5.6	98

215	Electrochemical Sensors and Biosensors Based on Graphene Functionalized with Metal Oxide Nanostructures for Healthcare Applications. <i>ChemistrySelect</i> , 2019 , 4, 5322-5337	1.8	93
214	Copper-doped ZrO nanoparticles as high-performance catalysts for efficient removal of toxic organic pollutants and stable solar water oxidation. <i>Journal of Environmental Management</i> , 2020 , 260, 110088	7.9	87
213	Fabrication of ZnO nanoparticles modified sensor for electrochemical oxidation of methdilazine. <i>Applied Surface Science</i> , 2019 , 496, 143656	6.7	85
212	Biofuels, biodiesel and biohydrogen production using bioprocesses. A review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1049-1072	13.3	82
211	Sustainable hydrogen production for the greener environment by quantum dots-based efficient photocatalysts: A review. <i>Journal of Environmental Management</i> , 2019 , 248, 109246	7.9	80
210	Voltammetric behavior of theophylline and its determination at multi-wall carbon nanotube paste electrode. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 97, 1-6	6	79
209	Electrochemical behavior of an anticancer drug 5-fluorouracil at methylene blue modified carbon paste electrode. <i>Materials Science and Engineering C</i> , 2016 , 65, 262-8	8.3	77
208	Electrochemical Sensor Based upon Ruthenium Doped TiO ₂ Nanoparticles for the Determination of Flufenamic Acid. <i>Journal of the Electrochemical Society</i> , 2017 , 164, B3036-B3042	3.9	75
207	Carbon Cloth-based Hybrid Materials as Flexible Electrochemical Supercapacitors. <i>ChemElectroChem</i> , 2019 , 6, 5771-5786	4.3	73
206	Barium titanate nanostructures for photocatalytic hydrogen generation and photodegradation of chemical pollutants. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 20646-20653	2.1	71
205	Electro-oxidation and determination of gabapentin at gold electrode. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 635, 51-57	4.1	71
204	Electrochemical behavior of flufenamic acid at amberlite XAD-4 resin and silver-doped titanium dioxide/ amberlite XAD-4 resin modified carbon electrodes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 177, 407-415	6	69
203	2D/2d heterojunction of MoS ₂ /g-CN nanoflowers for enhanced visible-light-driven photocatalytic and electrochemical degradation of organic pollutants. <i>Journal of Environmental Management</i> , 2020 , 274, 111208	7.9	68
202	Electro-Catalytic Behavior of Mg-Doped ZnO Nano-Flakes for Oxidation of Anti-Inflammatory Drug. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B3072-B3078	3.9	67
201	Electro-sensing base for herbicide acclonifen at graphitic carbon nitride modified carbon electrode □ Water and soil sample analysis. <i>Microchemical Journal</i> , 2019 , 149, 103976	4.8	66
200	A Novel Electrochemical Sensor for Detection of Molinate Using ZnO Nanoparticles Loaded Carbon Electrode. <i>Electroanalysis</i> , 2019 , 31, 1040-1049	3	66
199	Electro-sensing base for mefenamic acid on a 5% barium-doped zinc oxide nanoparticle modified electrode and its analytical application. <i>RSC Advances</i> , 2015 , 5, 104891-104899	3.7	65
198	Electrode materials for lithium-ion batteries. <i>Materials Science for Energy Technologies</i> , 2018 , 1, 182-187	5.2	64

197	Nanostructured silver doped TiO ₂ /CNTs hybrid as an efficient electrochemical sensor for detection of anti-inflammatory drug, cetirizine. <i>Microchemical Journal</i> , 2019 , 150, 104124	4.8	63
196	Membranes for dehydration of alcohols via pervaporation. <i>Journal of Environmental Management</i> , 2019 , 242, 415-429	7.9	62
195	Electrochemical oxidation of nimesulide in aqueous acid solutions based on TiO ₂ nanostructure modified electrode as a sensor. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 778, 103-109	4.1	62
194	Sustainable environmental management and related biofuel technologies. <i>Journal of Environmental Management</i> , 2020 , 273, 111096	7.9	62
193	A novel sensor for a food dye erythrosine at glucose modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2016 , 230, 140-148	8.5	61
192	Construction of nanoparticles composite sensor for atorvastatin and its determination in pharmaceutical and urine samples. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1462-1470	8.5	60
191	Nano molar detection of acyclovir, an antiviral drug at nanoclay modified carbon paste electrode. <i>Sensing and Bio-Sensing Research</i> , 2017 , 14, 39-46	3.3	59
190	Electrochemical behavior of thiosalicylic acid at Fe ₂ O ₃ nanoparticles and clay composite carbon electrode. <i>Electrochimica Acta</i> , 2018 , 269, 204-211	6.7	58
189	Fabrication of a TiO ₂ and clay nanoparticle composite electrode as a sensor. <i>Analytical Methods</i> , 2017 , 9, 4387-4393	3.2	56
188	Voltammetric oxidation and determination of loop diuretic furosemide at a multi-walled carbon nanotubes paste electrode. <i>Electrochimica Acta</i> , 2012 , 60, 95-101	6.7	56
187	Waste-to-energy nexus: A sustainable development. <i>Environmental Pollution</i> , 2020 , 267, 115501	9.3	56
186	Electro-oxidation of captopril at a gold electrode and its determination in pharmaceuticals and human fluids. <i>Analytical Methods</i> , 2015 , 7, 8673-8682	3.2	55
185	Electro-oxidation of nimesulide at 5% barium-doped zinc oxide nanoparticle modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 762, 37-42	4.1	55
184	Electro-oxidation and determination of trazodone at multi-walled carbon nanotube-modified glassy carbon electrode. <i>Talanta</i> , 2009 , 79, 361-8	6.2	55
183	Green synthesis of Cu-doped ZnO nanoparticles and its application for the photocatalytic degradation of hazardous organic pollutants. <i>Chemosphere</i> , 2022 , 287, 132081	8.4	55
182	Skin-Patchable Electrodes for Biosensor Applications: A Review. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1823-1835	5.5	54
181	Silver-Doped Titania Modified Carbon Electrode for Electrochemical Studies of Furantril. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, Q3215-Q3220	2	53
180	Novel ruthenium doped TiO ₂ /reduced graphene oxide hybrid as highly selective sensor for the determination of amroxol. <i>Journal of Molecular Liquids</i> , 2020 , 300, 112368	6	52

179	Z-scheme binary 1D ZnWO nanorods decorated 2D NiFeO nanoplates as photocatalysts for high efficiency photocatalytic degradation of toxic organic pollutants from wastewater. <i>Journal of Environmental Management</i> , 2020 , 268, 110677	7.9	51
178	Point of care detection of COVID-19: Advancement in biosensing and diagnostic methods. <i>Chemical Engineering Journal</i> , 2021 , 414, 128759	14.7	51
177	Electrooxidation and determination of flufenamic acid at graphene oxide modified carbon electrode. <i>Surfaces and Interfaces</i> , 2017 , 9, 107-113	4.1	49
176	Development of a novel nanosensor using Ca-doped ZnO for antihistamine drug. <i>Materials Chemistry and Physics</i> , 2020 , 246, 122791	4.4	47
175	Biomass utilization and production of biofuels from carbon neutral materials. <i>Environmental Pollution</i> , 2021 , 276, 116731	9.3	46
174	A novel biosensor based on graphene oxide-nanoclay hybrid electrode for the detection of Theophylline for healthcare applications. <i>Microchemical Journal</i> , 2019 , 149, 103985	4.8	45
173	Sustainable energy from waste organic matters via efficient microbial processes. <i>Science of the Total Environment</i> , 2020 , 722, 137927	10.2	44
172	Determination of dopamine in presence of ascorbic acid and uric acid using poly (Spands Reagent) modified carbon paste electrode. <i>Materials Science and Engineering C</i> , 2015 , 57, 378-86	8.3	43
171	Microplastics in the environment: Occurrence, perils, and eradication. <i>Chemical Engineering Journal</i> , 2021 , 408, 127317	14.7	42
170	Novel Co and Ni metal nanostructures as efficient photocatalysts for photodegradation of organic dyes. <i>Materials Research Express</i> , 2019 , 6, 125502	1.7	39
169	Graphene/graphitic carbon nitride-based ternary nanohybrids: Synthesis methods, properties, and applications for photocatalytic hydrogen production. <i>FlatChem</i> , 2020 , 24, 100200	5.1	38
168	Electrochemical investigations for COVID-19 detection-A comparison with other viral detection methods. <i>Chemical Engineering Journal</i> , 2021 , 420, 127575	14.7	38
167	Nanostructured organic and inorganic materials for Li-ion batteries: A review. <i>Materials Science in Semiconductor Processing</i> , 2019 , 104, 104684	4.3	37
166	Amberlite XAD-4 modified electrodes for highly sensitive electrochemical determination of nimesulide in human urine. <i>Microchemical Journal</i> , 2020 , 153, 104389	4.8	37
165	Novel nanoclay-based electrochemical sensor for highly efficient electrochemical sensing nimesulide. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 137, 109210	3.9	36
164	Fabrication of MWCNTs and Ru Doped TiO ₂ Nanoparticles Composite Carbon Sensor for Biomedical Application. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, Q3070-Q3078	2	35
163	Electrochemical Sensor for the Determination of Anticancer Drug 5- Fluorouracil at Glucose Modified Electrode. <i>ChemistrySelect</i> , 2016 , 1, 771-777	1.8	35
162	Hetero-nanostructured iron oxide and bentonite clay composite assembly for the determination of an antiviral drug acyclovir. <i>Microchemical Journal</i> , 2020 , 155, 104727	4.8	34

161	Synthesis of different biofuels from livestock waste materials and their potential as sustainable feedstocks [A review]. <i>Energy Conversion and Management</i> , 2021 , 236, 114038	10.6	34
160	Molecular insights and novel approaches for targeting tumor metastasis. <i>International Journal of Pharmaceutics</i> , 2020 , 585, 119556	6.5	33
159	Electroanalysis of Carbendazim using MWCNT/Ca-ZnO Modified Electrode. <i>Electroanalysis</i> , 2020 , 32, 1590-1599	3	33
158	Silica gel-modified electrode as an electrochemical sensor for the detection of acetaminophen. <i>Microchemical Journal</i> , 2019 , 150, 104206	4.8	32
157	Electrochemical behavior of anticancer drug 5-fluorouracil at carbon paste electrode and its analytical application. <i>Journal of Analytical Science and Technology</i> , 2016 , 7,	3.4	31
156	Biohydrogen Production from Organic Waste [A Review]. <i>Chemical Engineering and Technology</i> , 2020 , 43, 1240-1248	2	30
155	Synthesis of Ca-doped ZnO nanoparticles and its application as highly efficient electrochemical sensor for the determination of anti-viral drug, acyclovir. <i>Journal of Molecular Liquids</i> , 2021 , 322, 114552 ⁶		30
154	Fullerene-C60-MWCNT composite film based ultrasensitive electrochemical sensing platform for the trace analysis of pyruvic acid in biological fluids. <i>Talanta</i> , 2015 , 134, 554-559	6.2	28
153	CTAB modified Fe-WO ₃ as an electrochemical detector of amitrole by catalytic oxidation. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104580	6.8	28
152	Electrochemical behavior of diclofenac sodium at core-shell nanostructure modified electrode and its analysis in human urine and pharmaceutical samples. <i>Sensors International</i> , 2020 , 1, 100002	6.1	27
151	Photocatalytic water splitting hydrogen production via environmental benign carbon based nanomaterials. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 33696-33717	6.7	27
150	Electrochemical behavior of azo food dye at nanoclay modified carbon electrode-a nanomolar determination. <i>Vacuum</i> , 2018 , 155, 524-530	3.7	26
149	An electrochemical sensor based on poly (solochrome dark blue) film coated electrode for the determination of dopamine and simultaneous separation in the presence of uric acid and ascorbic acid: a voltammetric method. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 106, 145-50	6	26
148	Novel biosensor for efficient electrochemical detection of methdilazine using carbon nanotubes-modified electrodes. <i>Materials Research Express</i> , 2019 , 6, 116308	1.7	25
147	Functionalized magnetic nanoparticles/biopolymer hybrids: Synthesis methods, properties and biomedical applications. <i>Methods in Microbiology</i> , 2019 , 46, 227-254	2.8	25
146	Voltammetric Response and Determination of an Anti-Inflammatory Drug at a Cationic Surfactant-Modified Glassy Carbon Electrode. <i>Journal of Surfactants and Detergents</i> , 2016 , 19, 1071-1079 ^{1.9}		25
145	Electrochemical sensors for the detection of SARS-CoV-2 virus. <i>Chemical Engineering Journal</i> , 2022 , 430, 132966	14.7	25
144	Ultrasonication and electrochemically-assisted synthesis of reduced graphene oxide nanosheets for electrochemical sensor applications. <i>FlatChem</i> , 2020 , 23, 100183	5.1	23

143	Photocatalysis of Graphene and Carbon Nitride-Based Functional Carbon Quantum Dots 2019 , 759-781		23
142	Recent advances and viability in biofuel production. <i>Energy Conversion and Management: X</i> , 2021 , 10, 100070	2.5	22
141	Ultra-small zinc oxide nanosheets anchored onto sodium bismuth sulfide nanoribbons as solar-driven photocatalysts for removal of toxic pollutants and photoelectrocatalytic water oxidation. <i>Chemosphere</i> , 2021 , 267, 128559	8.4	22
140	Synergistic degradation of 4-chlorophenol by persulfate and oxalic acid mixture with heterogeneous Fenton like system for wastewater treatment: Adaptive neuro-fuzzy inference systems modeling. <i>Journal of Environmental Management</i> , 2020 , 268, 110678	7.9	21
139	Electrocatalytic detection of herbicide, amitrole at WO ₃ .33HO modified carbon paste electrode for environmental applications. <i>Science of the Total Environment</i> , 2020 , 743, 140691	10.2	21
138	Poly(eriochrome black T) modified electrode for electroensing of methdilazine. <i>Materials Science in Semiconductor Processing</i> , 2020 , 120, 105261	4.3	21
137	Advances in transition metal dichalcogenide-based two-dimensional nanomaterials. <i>Materials Today Chemistry</i> , 2021 , 19, 100399	6.2	21
136	Electro-oxidation and determination of 2-thiouracil at TiO ₂ nanoparticles-modified gold electrode. <i>Surfaces and Interfaces</i> , 2017 , 6, 127-133	4.1	20
135	Electrochemical oxidation of erythrosine at TiO ₂ nanoparticles modified gold electrode [An environmental application. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 2083-2089	6.8	20
134	Novel layered structured bentonite clay-based electrodes for electrochemical sensor applications. <i>Microchemical Journal</i> , 2020 , 159, 105441	4.8	20
133	A novel sensor based on WO ₃ .33HO nanorods modified electrode for the detection and degradation of herbicide, carbendazim. <i>Journal of Environmental Management</i> , 2021 , 279, 111611	7.9	20
132	Conventional and Nanotechnology-Based Sensing Methods for SARS Coronavirus (2019-nCoV). <i>ACS Applied Bio Materials</i> , 2021 , 4, 1178-1190	4.1	20
131	Metal oxide nanohybrids-based low-temperature sensors for NO ₂ detection: a short review. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 8160-8170	2.1	19
130	Kinetic and Mechanistic Investigations on Oxidation of L-tryptophan by Diperoiodatocuprate(III) in Aqueous Alkaline Medium. <i>Zeitschrift Fur Physikalische Chemie</i> , 2009 , 223, 299-317	3.1	19
129	Biosensors Based on MnO ₂ Nanostructures: A Review. <i>ACS Applied Nano Materials</i> , 2021 , 4, 2285-2302	5.6	19
128	Electro-oxidation and determination of nimesulide at nanosilica modified sensor. <i>Materials Science for Energy Technologies</i> , 2019 , 2, 396-400	5.2	18
127	Functional nanostructured metal oxides and its hybrid electrodes [Recent advancements in electrochemical biosensing applications. <i>Microchemical Journal</i> , 2020 , 159, 105522	4.8	18
126	Mechanistic investigation on the oxidation of ampicillin drug by diperoiodatoargentate (III) in aqueous alkaline medium. <i>Journal of Physical Organic Chemistry</i> , 2009 , 22, 234-240	2.1	17

125	Highly sensitive electrochemical assay for selective detection of Aminotriazole based on TiO ₂ /poly(CTAB) modified sensor. <i>Environmental Technology and Innovation</i> , 2021 , 21, 101222	7	17
124	Novel heterostructured Ru-doped TiO ₂ /CNTs hybrids with enhanced electrochemical sensing performance for Cetirizine. <i>Materials Research Express</i> , 2019 , 6, 115085	1.7	16
123	Nanostructured Ba/ZnO modified electrode as a sensor material for detection of organosulfur thiosalicylic acid. <i>Microchemical Journal</i> , 2020 , 159, 105409	4.8	16
122	Electrochemical oxidation of provitamin B5, d-panthenol and its analysis in spiked human urine. <i>Journal of Analytical Science and Technology</i> , 2016 , 7,	3.4	16
121	GrapheneClay-Based Hybrid Nanostructures for Electrochemical Sensors and Biosensors 2019 , 235-274		16
120	Identification and removal of micro- and nano-plastics: Efficient and cost-effective methods. <i>Chemical Engineering Journal</i> , 2021 , 421, 129816-129816	14.7	16
119	Modernization of Biosensing Strategies for the Development of Lab-on-Chip Integrated Systems 2019 , 325-342		15
118	Electrocatalytic behavior of a heterostructured nanocomposite sensor for aminotriazole. <i>New Journal of Chemistry</i> , 2020 , 44, 19376-19384	3.6	15
117	Glucose modified carbon paste sensor in the presence of cationic surfactant for mefenamic acid detection in urine and pharmaceutical samples. <i>Microchemical Journal</i> , 2021 , 160, 105599	4.8	15
116	Photocatalytic carbon dioxide reduction: Exploring the role of ultrathin 2D graphitic carbon nitride (g-C ₃ N ₄). <i>Chemical Engineering Journal</i> , 2021 , 425, 131402	14.7	15
115	Structure reactivity and thermodynamic analysis on the oxidation of ampicillin drug by copper(III) complex in aqueous alkaline medium (stopped-flow technique). <i>Journal of Molecular Structure</i> , 2009 , 930, 180-186	3.4	14
114	Hydrogen production technologies - Membrane based separation, storage and challenges. <i>Journal of Environmental Management</i> , 2022 , 302, 113963	7.9	14
113	Electrochemical Multiplexed Paper Nanosensor for Specific Dengue Serotype Detection Predicting Pervasiveness of DHF/DSS. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5886-5894	5.5	14
112	Adsorption of 4-chlorophenol by magnetized activated carbon from pomegranate husk using dual stage chemical activation. <i>Chemosphere</i> , 2021 , 270, 128623	8.4	14
111	Current treatment protocol for COVID-19 in India. <i>Sensors International</i> , 2020 , 1, 100013	6.1	13
110	Invasion of novel corona virus (COVID-19) in Indian territory. <i>Sensors International</i> , 2020 , 1, 100012	6.1	13
109	Mechanistic aspects of uncatalysed and Os(VIII) catalysed oxidation of 5-flourouracil [An anticancer drug by alkaline diperiodatoargentate(III). <i>Inorganica Chimica Acta</i> , 2009 , 362, 2270-2278	2.7	13
108	Oxidative degradation and deamination of atenolol by diperiodatocuprate(III) in aqueous alkaline medium: A mechanistic study. <i>Polyhedron</i> , 2009 , 28, 3499-3506	2.7	13

107	Fabrication of multi-walled carbon nanotubes and ZnO nanoparticles composite electrode as a sensor for paracetamol. <i>Materials Today: Proceedings</i> , 2019 , 18, 1124-1131	1.4	12
106	Electrochemical behavior of theophylline at methylene blue dye modified electrode and its analytical application. <i>Materials Today: Proceedings</i> , 2018 , 5, 21474-21481	1.4	12
105	Mechanistic investigations on the oxidation of l-valine by diperiodatocuprate(III) in aqueous alkaline medium: a kinetic model. <i>Transition Metal Chemistry</i> , 2009 , 34, 143-152	2.1	11
104	Kinetic and Mechanistic Investigations of Oxidation of Pentoxifylline Drug by Alkaline Permanganate. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7025-7031	3.9	11
103	Mechanistic Investigations of Ruthenium(III) Catalyzed Oxidation of L-Tryptophan by Diperiodatocuprate(III) in Aqueous Alkaline Media (Stopped Flow Technique): A Kinetic Study. <i>Open Catalysis Journal</i> , 2009 , 2, 130-139		11
102	Remediation of per- and polyfluoroalkyls (PFAS) via electrochemical methods. <i>Chemical Engineering Journal</i> , 2022 , 430, 132895	14.7	11
101	Photocatalytic hydrogen production by ternary heterojunction composites of silver nanoparticles doped FCNT-TiO. <i>Journal of Environmental Management</i> , 2021 , 286, 112130	7.9	11
100	A review on multicomponent reactions catalysed by zero-dimensional/one-dimensional titanium dioxide (TiO) nanomaterials: Promising green methodologies in organic chemistry. <i>Journal of Environmental Management</i> , 2021 , 279, 111603	7.9	11
99	In-vitro evaluation of antioxidant and anticholinesterase activities of novel pyridine, quinoxaline and s-triazine derivatives. <i>Environmental Research</i> , 2021 , 199, 111320	7.9	11
98	Electrochemical detection of chlorpheniramine maleate in the presence of an anionic surfactant and its analytical applications. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 553-559	0.9	10
97	Integrated biorefinery processes for conversion of lignocellulosic biomass to value added materials: Paving a path towards circular economy. <i>Bioresource Technology</i> , 2022 , 343, 126151	11	10
96	Metal chalcogenide-based core/shell photocatalysts for solar hydrogen production: Recent advances, properties and technology challenges. <i>Journal of Hazardous Materials</i> , 2021 , 415, 125588	12.8	10
95	The COVID-19 paradox: Impact on India and developed nations of the world. <i>Sensors International</i> , 2020 , 1, 100026	6.1	9
94	Indians vs.COVID-19: The scenario of mental health. <i>Sensors International</i> , 2020 , 1, 100038	6.1	9
93	Versatile fullerenes as sensor materials. <i>Materials Today Chemistry</i> , 2021 , 20, 100454	6.2	9
92	Advanced oxidation of 4-chlorophenol via combined pulsed light and sulfate radicals methods: Effect of co-existing anions. <i>Journal of Environmental Management</i> , 2021 , 291, 112595	7.9	9
91	Recent trends in functionalized nanoparticles loaded polymeric composites: An energy application. <i>Materials Science for Energy Technologies</i> , 2020 , 3, 515-525	5.2	8
90	Retention of atenolol from single and binary aqueous solutions by thin film composite nanofiltration membrane: Transport modeling and pore radius estimation. <i>Journal of Environmental Management</i> , 2020 , 271, 111005	7.9	8

89	Electrooxidation of antihistamine drug methdilazine and its analysis in human urine and blood samples. <i>Cogent Chemistry</i> , 2016 , 2, 1153274	2.5	8
88	Electroanalysis of paracetamol at nanoclay modified graphite electrode. <i>Materials Today: Proceedings</i> , 2019 , 18, 986-993	1.4	8
87	A kinetic and mechanistic study on the oxidation of L-cystine by alkaline diperiodatocuprate(III): A free radical intervention. <i>Kinetics and Catalysis</i> , 2009 , 50, 530-539	1.5	8
86	Thermodynamic Quantities for the Different Steps Involved in the Oxidation of the Drug Ketorolac by Copper(III) Periodate Complex in Aqueous Alkaline Medium: A Mechanistic Approach. <i>Journal of Solution Chemistry</i> , 2010 , 39, 417-430	1.8	8
85	Enhanced removal of humic acid from aqueous solution by combined alternating current electrocoagulation and sulfate radical. <i>Environmental Pollution</i> , 2021 , 277, 116632	9.3	8
84	Novel graphene-nanoclay hybrid electrodes for electrochemical determination of theophylline. <i>Microchemical Journal</i> , 2021 , 165, 106115	4.8	8
83	An enhanced sensing platform for clozapine at 2.0% silver doped TiO ₂ nanoparticles - A sensitive detection. <i>Materials Today: Proceedings</i> , 2018 , 5, 21271-21278	1.4	8
82	Highly sensitive electrochemical sensor for the detection and quantification of Linuron based on silica gel modified carbon paste electrode. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101687	7	8
81	Nanostructured graphitic carbon nitride (g-CN)-CTAB modified electrode for the highly sensitive detection of amino-triazole and linuron herbicides. <i>Environmental Research</i> , 2022 , 204, 111856	7.9	8
80	Recent developments in ionic liquid-based electrolytes for energy storage supercapacitors and rechargeable batteries 2020 , 199-221		7
79	Nano level detection and analysis of an antiviral drug at ZnO nanoparticles modified sensor. <i>Materials Today: Proceedings</i> , 2019 , 18, 1568-1573	1.4	7
78	Valorisation of lignocellulosic biomass to value-added products: Paving the pathway towards low-carbon footprint. <i>Fuel</i> , 2022 , 313, 122678	7.1	7
77	Cholesterol intercalated 2D graphene oxide sheets fabricated sensor for voltammetric analysis of theophylline. <i>FlatChem</i> , 2021 , 28, 100255	5.1	7
76	Recent Progress in TiO ₂ - and ZnO-Based Nanostructured Hybrid Photocatalysts for Water Purification and Hydrogen Generation 2019 , 815-843		7
75	Fabrication of activated carbon from pomegranate husk by dual consecutive chemical activation for 4-chlorophenol adsorption. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 13919-13930	5.1	7
74	Strategies, advances, and challenges associated with the use of graphene-based nanocomposites for electrochemical biosensors.. <i>Advances in Colloid and Interface Science</i> , 2022 , 304, 102664	14.3	7
73	Gram-scale synthesis of ZnS/NiO core-shell hierarchical nanostructures and their enhanced H ₂ production in crude glycerol and sulphide wastewater. <i>Environmental Research</i> , 2021 , 199, 111323	7.9	6
72	2D materials and its heterostructured photocatalysts: Synthesis, properties, functionalization and applications in environmental remediation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106408	6.8	6

71	Analysis of herbicide and its applications through a sensitive electrochemical technique based on MWCNTs/ZnO/CPE fabricated sensor. <i>Chemosphere</i> , 2022 , 287, 132086	8.4	6
70	Electro oxidation and analytical applications of nimesulide at graphene oxide and reduced graphene oxide modified carbon paste electrode. <i>Materials Today: Proceedings</i> , 2019 , 18, 751-758	1.4	5
69	Development of Voltammetric Method for the Determination of an Anticancer Drug, 5-Flurouracil, at a Multiwalled Carbon Nanotubes Paste Electrode. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016 , 46, 814-820		5
68	Electrochemical oxidation of loop diuretic furosemide in aqueous acid medium and its analytical application. <i>Cogent Chemistry</i> , 2016 , 2, 1152784	2.5	5
67	Oxidation of 6-aminopenicillanic acid by an alkaline copper(III) periodate complex in the absence and presence of ruthenium(III) as a homogeneous catalyst. <i>Polyhedron</i> , 2011 , 30, 1785-1798	2.7	5
66	Graphene/g-carbon nitride (GO/g-CN) nanohybrids as a sensor material for the detection of methyl parathion and carbendazim.. <i>Chemosphere</i> , 2021 , 292, 133450	8.4	5
65	Analytical methods for detection of human cytomegalovirus clinched biosensor a cutting-edge diagnostic tool. <i>Biomedical Engineering Advances</i> , 2021 , 1, 100006		5
64	Electrochemical Behavior of an Anti-Viral Drug Valacyclovir at Carbon Paste Electrode and Its Analytical Application. <i>Russian Journal of Electrochemistry</i> , 2018 , 54, 760-768	1.2	5
63	Synthesis of ruthenium doped titanium dioxide nanoparticles for the electrochemical detection of diclofenac sodium. <i>Journal of Molecular Liquids</i> , 2021 , 340, 116891	6	5
62	Magnetron sputter deposited NiCu alloy catalysts for production of hydrogen through electrolysis in alkaline water. <i>Materials Science for Energy Technologies</i> , 2018 , 1, 160-165	5.2	4
61	Electroanalysis of 1,3βimethylexanthine at zinc oxide nanoparticles modified electrode. <i>Materials Today: Proceedings</i> , 2019 , 18, 590-595	1.4	4
60	TiO ₂ nanoparticles modified sensor for theophylline drug. <i>Materials Today: Proceedings</i> , 2019 , 18, 606-612	1.4	4
59	Nano-silica modified electrode as a sensor for the determination of mefenamic acid - A voltammetric sensor. <i>Materials Today: Proceedings</i> , 2018 , 5, 21466-21473	1.4	4
58	Electrochemical behavior of mefenamic acid at zinc oxide nanoparticles modified carbon paste electrode. <i>Materials Today: Proceedings</i> , 2018 , 5, 21458-21465	1.4	4
57	Clay-based carbon sensor for electro-oxidation of nimesulide. <i>Materials Chemistry and Physics</i> , 2021 , 272, 124992	4.4	4
56	Amberlite XAD-4 based electrochemical sensor for diclofenac detection in urine and commercial tablets. <i>Materials Chemistry and Physics</i> , 2021 , 273, 125044	4.4	4
55	Detection of ketorolac drug using pencil graphite electrode. <i>Biomedical Engineering Advances</i> , 2021 , 2, 100009		4
54	Photocatalytic conversion of CO ₂ into valuable products using emerging two-dimensional graphene-based nanomaterials: A step towards sustainability. <i>Chemical Engineering Journal</i> , 2021 , 425, 131401	14.7	4

53	Hf-Doped Tungsten Oxide Nanorods as Electrode Materials for Electrochemical Detection of Paracetamol and Salbutamol. <i>ACS Applied Nano Materials</i> , 2022 , 5, 1263-1275	5.6	4
52	Voltammetric detection and determination of mefenamic acid at silver-doped TiO ₂ nanoparticles modified electrode. <i>Materials Today: Proceedings</i> , 2019 , 18, 671-678	1.4	3
51	Applications of zinc oxide nanoparticles as an electrode modifier for ambroxol. <i>Materials Today: Proceedings</i> , 2019 , 18, 963-967	1.4	3
50	Electrochemical behavior of mefenamic acid at graphene oxide modified carbon paste electrode. <i>Materials Today: Proceedings</i> , 2019 , 18, 582-589	1.4	3
49	Electro oxidation and analytical applications of valacyclovir at reduced graphene oxide modified carbon paste electrode. <i>Materials Today: Proceedings</i> , 2019 , 18, 550-557	1.4	3
48	ZnO nanoparticles modified sensor for the electroanalysis of thiosalicylic acid. <i>Materials Today: Proceedings</i> , 2019 , 18, 710-716	1.4	3
47	Os(VIII)/Ru(III) Catalysed Oxidation of L-Valine by Ag(III) Periodate Complex in Aqueous Alkaline Medium: A Comparative Kinetic Study. <i>Catalysis Letters</i> , 2011 , 141, 1526-1540	2.8	3
46	Mechanistic Aspects of Osmium(VIII) Catalyzed Oxidation of L-Tryptophan by Diperoxidocuprate(III) in Aqueous Alkaline Medium: A Kinetic Model. <i>Research Letters in Inorganic Chemistry</i> , 2008 , 2008, 1-5		3
45	Electroanalytical techniques for investigating biofilms: Applications in biosensing and biomolecular interfacing 2020 , 293-329		3
44	Voltammetry and analytical applications of hydrochlorothiazide at graphene oxide modified glassy carbon electrode. <i>Materials Today: Proceedings</i> , 2019 , 18, 542-549	1.4	2
43	Electrochemical oxidation of food dye at nanosilica modified carbon electrode. <i>Materials Today: Proceedings</i> , 2019 , 18, 798-805	1.4	2
42	Electrocatalytic reduction of oxygen on Co ₃ O ₄ : Effects of processing method. <i>Materials Science for Energy Technologies</i> , 2018 , 1, 129-135	5.2	2
41	Electrosensing tool for nonsteroidal drug flufenamic acid at multiwalled carbon nanotubes modified graphite electrode. <i>Materials Today: Proceedings</i> , 2019 , 18, 679-686	1.4	2
40	Development of a sensor for thiosalicylic acid at MWCNT modified gold. <i>Materials Today: Proceedings</i> , 2019 , 18, 723-730	1.4	2
39	Mechanistic aspects of Os(VIII) catalysed oxidation of loop diuretic drug furosemide by Ag(III) periodate complex in aqueous alkaline medium. <i>Journal of Chemical Sciences</i> , 2012 , 124, 421-430	1.8	2
38	Mechanistic Study on the Oxidation of 4-Hydroxycoumarin by Diperoxidatonicelate(IV) in Aqueous Alkaline Medium. <i>E-Journal of Chemistry</i> , 2009 , 6, 601-610		2
37	Versatile Graphitized Carbon Nanofibers in Energy Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1334-1360	8.3	2
36	Fabrication of nanoclay-modified electrodes and their use as an effective electrochemical sensor for biomedical applications. <i>Journal of Molecular Liquids</i> , 2022 , 351, 118583	6	2

35	Electrochemical biosensors for monitoring of bioorganic and inorganic chemical pollutants in biological and environmental matrices 2022 , 509-531		2
34	Electrochemical investigations-based on ZnO@Cu core-shell in presence of CTAB surfactant for 4-Chlorophenol. <i>Environmental Technology and Innovation</i> , 2021 , 24, 102029	7	2
33	A multiagent-based hexagon shape approach for shortest path computation in wireless sensors network. <i>Sensors International</i> , 2020 , 1, 100056	6.1	2
32	Empirical modeling and kinetic study of methylene blue removal from synthetic wastewater by activation of persulfate with heterogeneous Fenton-like process. <i>Journal of Molecular Liquids</i> , 2021 , 328, 115408	6	2
31	Synthesis of novel CoO nanocubes-NiO octahedral hybrids for electrochemical energy storage supercapacitors. <i>Journal of Environmental Management</i> , 2021 , 298, 113484	7.9	2
30	Two-dimensional ultrathin metal-based nanosheets for photocatalytic CO conversion to solar fuels.. <i>Journal of Environmental Management</i> , 2022 , 313, 114916	7.9	2
29	An amperometric sensor composed of carbon hybrid-structure for the degradation of aminotriazole herbicide. <i>Environmental Research</i> , 2022 , 212, 113541	7.9	2
28	A novel sensor based on graphene oxide nanoparticles for the detection and analysis of an antihistamine drug. <i>Materials Today: Proceedings</i> , 2019 , 18, 780-787	1.4	1
27	ELECTROCHEMICAL OXIDATION AND DETERMINATION OF AN ANTI-CANCER DRUG PEMETREXED DISODIUM. <i>Asian Journal of Pharmaceutical and Clinical Research</i> , 2017 , 10, 492	0.4	1
26	Ag(I)-Catalyzed Chlorination of Linezolid during Water Treatment: Kinetics and Mechanism. <i>International Journal of Chemical Kinetics</i> , 2018 , 50, 495-506	1.4	1
25	Electrochemical sensor for secretolytic agent-ambroxol at eriochrome black -T modified carbon electrode 2018 ,		1
24	Electroanalysis of an antihistamine drug at nano structured modified electrode. <i>Materials Today: Proceedings</i> , 2019 , 18, 558-565	1.4	1
23	Clay coated carbon electrode sensor for a food dye sunset yellow. <i>Materials Today: Proceedings</i> , 2019 , 18, 1116-1123	1.4	1
22	Mechanistic aspects of oxidation on L-tyrosine by diperiodatocuprate(III) complex in alkali media: a kinetic model. <i>Open Chemistry</i> , 2009 , 7, 929-937	1.6	1
21	Hafnium doped tungsten oxide intercalated carbon matrix for electrochemical detection of perfluorooctanoic acid. <i>Chemical Engineering Journal</i> , 2022 , 434, 134700	14.7	1
20	Carbon and carbon paste electrodes 2022 , 79-114		1
19	Engineered biochar: A way forward to environmental remediation. <i>Fuel</i> , 2021 , 122510	7.1	1
18	Electro-sensing base for hazardous pesticide 2, 4-DCP and its quantification in real samples at ZnO@Cu core-shell nanoparticles in the presence of cationic surfactant. <i>Materials Chemistry and Physics</i> , 2022 , 278, 125705	4.4	1

17	Glucose-based carbon electrode for trace-level detection of acetaminophen. <i>Electrochemical Science Advances</i> , e202100117		1
16	Fundamentals, recent advances, and perspectives of electrode materials for bioelectrochemical sensing applications 2020 , 557-589		1
15	Electroanalysis of theophylline at eriochrome black III and graphite powder composite electrode 2018 ,		1
14	Materials for wearable sensors 2022 , 5-40		1
13	Novel tungsten disulfide (WS ₂) nanosheets for photocatalytic degradation and electrochemical detection of pharmaceutical pollutants. <i>Journal of Water Process Engineering</i> , 2022 , 47, 102717	6.7	1
12	Development of 2D graphene oxide sheets-based voltammetric sensor for electrochemical sensing of fungicide, carbendazim.. <i>Chemosphere</i> , 2022 , 134919	8.4	1
11	Fast and facile electrochemical detection and determination of fungicide carbendazim at titanium dioxide designed carbon-based sensor. <i>Materials Chemistry and Physics</i> , 2022 , 285, 126131	4.4	1
10	Voltammetric sensor for secretolytic agent ambroxol at titanium dioxide nanoparticles modified electrode. <i>Materials Today: Proceedings</i> , 2019 , 18, 941-946	1.4	0
9	ZrO ₂ in biomedical applications 2022 , 471-501		0
8	Magnetized Activated Carbon Synthesized from Pomegranate Husk for Persulfate Activation and Degradation of 4-Chlorophenol From Wastewater. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1611	2.6	0
7	Ultra-sensitive detection of tizanidine in commercial tablets and urine samples using zinc oxide coated glassy carbon electrode. <i>Microchemical Journal</i> , 2022 , 172, 106956	4.8	0
6	Catalytic production and application of bio-renewable butyl butyrate as jet fuel blend- A review.. <i>Journal of Environmental Management</i> , 2022 , 310, 114772	7.9	0
5	Nanosilica modified sensor for the electro-oxidation and determination of an antihistamine drug. <i>Materials Today: Proceedings</i> , 2019 , 18, 1562-1567	1.4	
4	Mechanistic aspects of oxidation of loop diuretic drug furosemide by Ag(III) periodate complex in alkali media: A kinetic approach. <i>Main Group Chemistry</i> , 2011 , 10, 215-227	0.6	
3	Oxidation of L-tryptophan by Ag(III) complex in alkali media: a kinetic, mechanistic approach. <i>Main Group Chemistry</i> , 2009 , 8, 307-321	0.6	
2	Nanostructured electrodes 2022 , 147-175		
1	Analytical methods for Ebola virus detection. <i>Microchemical Journal</i> , 2022 , 178, 107333	4.8	