

# Tukiakula Madhusudana Reddy

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,117  
citations

331670

21  
h-index

395702

33  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acetylcholinesterase based biosensor for monitoring of Malathion and Acephate in food samples: A voltammetric study. <i>Food Chemistry</i> , 2014, 142, 188-196.	8.2	72
2	Solâ€gel immobilized biosensor for the detection of organophosphorous pesticides: A voltammetric method. <i>Bioelectrochemistry</i> , 2012, 83, 19-24.	4.6	70
3	Electrochemical sensing of paracetamol and its simultaneous resolution in the presence of dopamine and folic acid at a multi-walled carbon nanotubes/poly(glycine) composite modified electrode. <i>Analytical Methods</i> , 2014, 6, 9459-9468.	2.7	68
4	Voltammetric behavior of Cefixime and Cefpodoxime Proxetil and determination in pharmaceutical formulations and urine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 31, 811-818.	2.8	66
5	A simple sonochemical assisted synthesis of nanocomposite (ZnO/MWCNTs) for electrochemical sensing of Epinephrine in human serum and pharmaceutical formulation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 584, 124038.	4.7	61
6	Multi walled carbon nanotubes supported CuO-Au hybrid nanocomposite for the effective application towards the electrochemical determination of Acetaminophen and 4-Aminophenol. <i>Synthetic Metals</i> , 2019, 252, 29-39.	3.9	58
7	Development of AChE biosensor for the determination of methyl parathion and monocrotophos in water and fruit samples: A cyclic voltammetric study. <i>Journal of Electroanalytical Chemistry</i> , 2012, 665, 76-82.	3.8	55
8	Electrochemical investigation of L-dopa and simultaneous resolution in the presence of uric acid and ascorbic acid at a poly (methyl orange) film coated electrode: A voltammetric study. <i>Journal of Electroanalytical Chemistry</i> , 2012, 682, 164-171.	3.8	51
9	Electrocatalytic boost up of epinephrine and its simultaneous resolution in the presence of serotonin and folic acid at poly(serine)/multi-walled carbon nanotubes composite modified electrode: A voltammetric study. <i>Materials Science and Engineering C</i> , 2015, 56, 57-65.	7.3	50
10	A novel electrochemical biosensor based on horseradish peroxidase immobilized on Ag-nanoparticles/poly(l-arginine) modified carbon paste electrode toward the determination of pyrogallol/hydroquinone. <i>Enzyme and Microbial Technology</i> , 2013, 52, 377-385.	3.2	49
11	A novel horseradish peroxidase biosensor towards the detection of dopamine: A voltammetric study. <i>Enzyme and Microbial Technology</i> , 2014, 57, 8-15.	3.2	45
12	Rapid and sensitive electrochemical monitoring of paracetamol and its simultaneous resolution in presence of epinephrine and tyrosine at GO/poly(Val) composite modified carbon paste electrode. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 545, 117-126.	4.7	33
13	A facile synthesis of Fe <sub>3</sub> O <sub>4</sub> -Gr nanocomposite and its effective use as electrochemical sensor for the determination of dopamine and as anode material in lithium ion batteries. <i>Sensors and Actuators A: Physical</i> , 2019, 293, 87-100.	4.1	31
14	Voltammetric behavior of some fluorinated quinolone antibacterial agents and their differential pulse voltammetric determination in drug formulations and urine samples using a Î²-cyclodextrin-modified carbon-paste electrode. <i>Journal of Analytical Chemistry</i> , 2007, 62, 168-175.	0.9	30
15	Differential Pulse Adsorptive Stripping Voltammetric Determination of Nifedipine and Nimodipine in Pharmaceutical Formulations, Urine, and Serum Samples by Using a Clayâ€Modified Carbonâ€Paste Electrode. <i>Analytical Letters</i> , 2004, 37, 2079-2098.	1.8	28
16	Electrochemical detection of dopamine at poly(solochrome cyanine)/Pd nanoparticles doped modified carbon paste electrode and simultaneous resolution in the presence of ascorbic acid and uric acid: a voltammetric method. <i>Analytical Methods</i> , 2013, 5, 5627.	2.7	28
17	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, 145-150.	5.0	28
18	Development, Characterization and Application of a Carbonâ€Based Nanomaterial Composite as an Electrochemical Sensor for Monitoring Natural Antioxidant (Gallic Acid) in Beverages. <i>ChemistrySelect</i> , 2017, 2, 3804-3811.	1.5	26

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19	Fabrication of carbon-based nanomaterial composite electrochemical sensor for the monitoring of terbutaline in pharmaceutical formulations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 600-609.	4.7	25
20	Phytochemical Profiling of Methanolic Fruit Extract of <i>Gardenia latifolia</i> Ait. by LC-MS/MS Analysis and Evaluation of Its Antioxidant and Antimicrobial Activity. <i>Plants</i> , 2021, 10, 545.	3.5	24
21	Electrochemical biosensor based on silica sol-gel entrapment of horseradish peroxidase onto the carbon paste electrode toward the determination of 2-aminophenol in non-aqueous solvents: A voltammetric study. <i>Journal of Molecular Liquids</i> , 2014, 196, 77-85.	4.9	23
22	Preparation, characterization and analytical application of an electrochemical laccase biosensor towards low level determination of isoprenaline in human serum samples. <i>RSC Advances</i> , 2014, 4, 57591-57599.	3.6	19
23	An electrochemical investigation and reduction mechanism of 3, 5-Dinitrobenzoic acid at a glassy carbon electrode: A voltammetric study. <i>Journal of Molecular Liquids</i> , 2013, 178, 168-174.	4.9	17
24	Development of electrochemical sensor based on $\beta$ -cyclodextrin/K10 montmorillonite towards the enhanced electro-catalytic oxidation of isorientin: A voltammetric study. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 183, 69-77.	3.5	17
25	A powerful electrochemical sensor based on Fe <sub>3</sub> O <sub>4</sub> nanoparticles-multiwalled carbon nanotubes hybrid for the effective monitoring of sunset yellow in soft drinks. <i>Journal of Food Measurement and Characterization</i> , 2020, 14, 3319-3332.	3.2	17
26	Surface characterization of cellulose acetate propionate by inverse gas chromatography. <i>Polymer Bulletin</i> , 2014, 71, 125-132.	3.3	14
27	A Novel Electrochemical Sensor Based on Multi-walled Carbon Nanotubes/Poly (L-Methionine) for the Investigation of 5-Nitroindazole: A Voltammetric Study. <i>Analytical Chemistry Letters</i> , 2018, 8, 457-474.	1.0	14
28	Development, validation and enzyme kinetic evaluation of multi walled carbon nano tubes mediated tyrosinase based electrochemical biosensing platform for the voltammetric monitoring of epinephrine. <i>Process Biochemistry</i> , 2020, 92, 476-485.	3.7	14
29	Distribution of Toxic Trace Metals Zn, Cd, Pb, and Cu in Tirupati Soils, India. <i>Soil and Sediment Contamination</i> , 2005, 14, 471-478.	1.9	12
30	Poly-Alizarin red S/multiwalled carbon nanotube modified glassy carbon electrode for the boost up of electrocatalytic activity towards the investigation of dopamine and simultaneous resolution in the presence of 5-HT: A voltammetric study. <i>Materials Science and Engineering C</i> , 2016, 62, 506-517.	7.3	11
31	A highly selective electrochemical sensor based on multi walled carbon nano tubes/poly (Evans blue) composite for the determination of l-dopa in presence of 5-HT and folic acid: a voltammetric investigation. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 1831-1841.	2.2	10
32	Li <sub>2</sub> TiO <sub>3</sub> -MWCNT nanocomposite electrodes for determination of dopamine in electrochemical sensing platform. <i>Sensors and Actuators A: Physical</i> , 2022, 341, 113555.	4.1	10
33	Surface thermodynamics of Efavirenz and a blend of Efavirenz with cellulose acetate propionate by inverse gas chromatography. <i>Surface and Interface Analysis</i> , 2016, 48, 4-9.	1.8	9
34	Hydrothermal synthesis of intertwining network structured TiO <sub>2</sub> nanocomposite: A promising material for the effective monitoring of dopamine and anodic performance in lithium-ion battery. <i>Synthetic Metals</i> , 2020, 265, 116403.	3.9	9
35	Eco-friendly and bio-waste based hydroxyapatite/reduced graphene oxide hybrid material for synergic electrocatalytic detection of dopamine and study of its simultaneous performance with acetaminophen and uric acid. <i>Surfaces and Interfaces</i> , 2021, 24, 101145.	3.0	6
36	Surface characterization of 2-hydroxypyrimidine sulphate by inverse gas chromatography. <i>Journal of Pharmaceutical Investigation</i> , 2014, 44, 9-14.	5.3	5

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37	Development of carbon-based nanocomposite biosensor platform for the simultaneous detection of catechol and hydroquinone in local tap water. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 5243-5258.	2.2	4
38	Electrochemical Reduction Behavior and Polarographic Determination of Methoxy Triazine Herbicides in Environmental Samples. <i>Analytical Letters</i> , 2010, 43, 674-686.	1.8	3
39	Synthesis and characterization of a bi-functionalized lithium cobalt iron oxide/graphene nano-architected composite material for electrochemical sensing of dopamine and as cathode in lithium-ion battery. <i>Monatshefte Für Chemie</i> , 2021, 152, 785.	1.8	3
40	A Facile In-Situ Development of L-Valine Film onto the Surface of Carbon Paste Electrode Towards the Detection of Environmentally Hazardous 4-Amino Phenol. <i>Zeitschrift Fur Physikalische Chemie</i> , 2021, 235, 359-376.	2.8	1
41	Surface Characterization of Phenylpropanolamine Drug by Inverse Gas Chromatography. , 2013, 2013, 1-5.		0