Manju Bhargavi Gumpu

List of Publications by Year
in descending order

21 papers	1,351 citations	759233 12 h-index	713466 21 g-index
22 all docs	22 docs citations	22 times ranked	2080 citing authors

#	Article	IF	Citations
1	A review on detection of heavy metal ions in water â€“ An electrochemical approach. Sensors and Actuators B: Chemical, 2015, 213, 515-533.	7.8	785
2	Simultaneous electrochemical detection of Cd(II), Pb(II), As(III) and Hg(II) ions using ruthenium(II)-textured graphene oxide nanocomposite. Talanta, 2017, 162, 574-582.	5.5	107
3	Development of electrochemical biosensor with ceriaâ€“PANI coreâ€“shell nano-interface for the detection of histamine. Sensors and Actuators B: Chemical, 2014, 199, 330-338.	7.8	84
4	Design and development of electrochemical biosensor for the simultaneous detection of melamine and urea in adulterated milk samples. Sensors and Actuators B: Chemical, 2017, 238, 1283-1292.	7.8	69
5	Synthesis, characterization and bioimaging application of laser-ablated graphene-oxide nanoparticles (nGOs). Diamond and Related Materials, 2020, 104, 107733.	3.9	59
6	Electrochemical sensing platform for the determination of arsenite and arsenate using electroactive nanocomposite electrode. Chemical Engineering Journal, 2018, 351, 319-327.	12.7	37
7	Electrocatalytic nanocauliflower structured fluorine doped CdO thin film as a potential arsenic sensor. Sensors and Actuators B: Chemical, 2016, 234, 426-434.	7.8	30
8	Titanium dioxide doped hydroxyapatite incorporated photocatalytic membranes for the degradation of chloramphenicol antibiotic in water. Journal of Chemical Technology and Biotechnology, 2021, 96, 1057-1066.	3.2	29
9	Design and development of amperometric biosensor for the detection of lead and mercury ions in water matrixâ€”a permeability approach. Analytical and Bioanalytical Chemistry, 2017, 409, 4257-4266.	3.7	26
10	Amperometric determination of As(III) and Cd(II) using a platinum electrode modified with acetylcholinesterase, ruthenium(II)-tris(bipyridine) and graphene oxide. Mikrochimica Acta, 2018, 185, 297.	5.0	24
11	Laser-induced transformation of graphene into graphene oxide nanospheres (GONs). Materials Research Bulletin, 2019, 115, 227-234.	5.2	15
12	Chemically synthesized butein and butin: Optical, structure and electrochemical redox functionality at electrode interface. Journal of Photochemistry and Photobiology B: Biology, 2018, 182, 122-129.	3.8	12
13	Calcium carbide in mangoes: an electrochemical way for detection. Analytical Methods, 2016, 8, 4590-4599.	2.7	11
14	Fabrication of electrochemical biosensor with vanadium pentoxide nano-interface for the detection of methylglyoxal in rice. Analytical Biochemistry, 2017, 528, 19-25.	2.4	11
15	Fluorescent carbon nanoparticles from laser-ablated Bougainvillea alba flower extract for bioimaging applications. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	9
16	Chemometric Analysis for the Determination of Methylglyoxal in Grilled Chicken Using ZnO Flakes Based Glyoxalase 1 Biosensor. Sensor Letters, 2015, 13, 245-253.	0.4	9
17	Fabrication of an electrochemical biosensor with ZnO nanoflakes interface for methylglyoxal quantification in food samples. Food Science and Biotechnology, 2018, 27, 9-17.	2.6	8
18	Optimization of Electrochemical Parameters for Specific Blood Methylglyoxal Determination Using ZnO Sepals Based Glyoxalase 1 Biosensor. Sensor Letters, 2015, 13, 328-337.	0.4	7

#	Article	IF	Citations
19	Electroactive Manganese Oxideâ€“Reduced Graphene Oxide Interfaced Electrochemical Detection of Urea. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	6
20	Wavelet based spectral approach for solving surface coverage model in an electrochemical arsenic sensor - An operational matrix approach. Electrochimica Acta, 2018, 266, 27-33.	5.2	5
21	Amperometric Detection of Mercury Ions Using Piperazineâ€Functionalized Reduced Graphene Oxide as an Efficient Sensing Platform. ChemistrySelect, 2022, 7, .	1.5	5