

Gajjala Sumana

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,453
citations

159585

30
h-index

197818

49
g-index

51
all docs

51
docs citations

51
times ranked

3177
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in urea biosensors. <i>Biochemical Engineering Journal</i> , 2009, 44, 42-52.	3.6	177
2	Electrophoretically deposited reduced graphene oxide platform for food toxin detection. <i>Nanoscale</i> , 2013, 5, 3043.	5.6	158
3	Biosensors for pathogen detection: A smart approach towards clinical diagnosis. <i>Sensors and Actuators B: Chemical</i> , 2014, 197, 385-404.	7.8	147
4	Carboxylated multiwalled carbon nanotubes based biosensor for aflatoxin detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 258-264.	7.8	138
5	Electrochemical genosensor based on graphene oxide modified iron oxide-chitosan hybrid nanocomposite for pathogen detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 276-283.	7.8	94
6	Preparation, characterization and application of polyaniline nanospheres to biosensing. <i>Nanoscale</i> , 2010, 2, 747.	5.6	92
7	Highly sensitive electrochemical immunosensor based on graphene-wrapped copper oxide-cysteine hierarchical structure for detection of pathogenic bacteria. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1060-1069.	7.8	91
8	A label-free ultrasensitive microfluidic surface Plasmon resonance biosensor for Aflatoxin B1 detection using nanoparticles integrated gold chip. <i>Food Chemistry</i> , 2020, 307, 125530.	8.2	80
9	Zirconia based nucleic acid sensor for <i>Mycobacterium tuberculosis</i> detection. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	70
10	Electrochemical Aflatoxin B1 immunosensor based on the use of graphene quantum dots and gold nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 592.	5.0	69
11	Chitosan encapsulated quantum dots platform for leukemia detection. <i>Biosensors and Bioelectronics</i> , 2012, 38, 107-113.	10.1	67
12	Chitosan-iron oxide nano-composite platform for mismatch-discriminating DNA hybridization for <i>Neisseria gonorrhoeae</i> detection causing sexually transmitted disease. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2967-2974.	10.1	65
13	Application of nanostructured ZnO films for electrochemical DNA biosensor. <i>Thin Solid Films</i> , 2010, 519, 1196-1201.	1.8	64
14	Application of conducting paper for selective detection of troponin. <i>Electrochemistry Communications</i> , 2012, 20, 71-74.	4.7	63
15	Electrophoretic Fabrication of Chitosan-Zirconium-Oxide Nanobiocomposite Platform for Nucleic Acid Detection. <i>Biomacromolecules</i> , 2011, 12, 540-547.	5.4	62
16	Graphene Oxide-Based Biosensor for Food Toxin Detection. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 960-970.	2.9	60
17	Protein conjugated carboxylated gold@reduced graphene oxide for aflatoxin B ₁ detection. <i>RSC Advances</i> , 2015, 5, 5406-5414.	3.6	59
18	Functionalized MoS ₂ nanosheets assembled microfluidic immunosensor for highly sensitive detection of food pathogen. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 1090-1098.	7.8	57

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19	Highly efficient Polyaniline-MoS ₂ hybrid nanostructures based biosensor for cancer biomarker detection. <i>Analytica Chimica Acta</i> , 2019, 1055, 26-35.	5.4	48
20	Nanopatterned Cadmium Selenide Langmuir-Blodgett Platform for Leukemia Detection. <i>Analytical Chemistry</i> , 2012, 84, 3082-3089.	6.5	46
21	Electrochemical detection of a pathogenic <i>Escherichia coli</i> specific DNA sequence based on a graphene oxide-chitosan composite decorated with nickel ferrite nanoparticles. <i>RSC Advances</i> , 2015, 5, 67115-67124.	3.6	45
22	Langmuir-Blodgett Nanoassemblies of the MoS ₂ -Au Composite at the Air-Water Interface for Dengue Detection. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3020-3028.	8.0	45
23	Polyaniline/carbon nanotubes platform for sexually transmitted disease detection. <i>Journal of Molecular Recognition</i> , 2010, 23, 472-479.	2.1	40
24	Nanostructured palladium-reduced graphene oxide platform for high sensitive, label free detection of a cancer biomarker. <i>RSC Advances</i> , 2013, 4, 2267-2273.	3.6	38
25	Electrochemical genosensor based on carboxylated graphene for detection of water-borne pathogen. <i>Sensors and Actuators B: Chemical</i> , 2018, 275, 312-321.	7.8	36
26	Electrochemical genosensor based on modified octadecanethiol self-assembled monolayer for <i>Escherichia coli</i> detection. <i>Sensors and Actuators B: Chemical</i> , 2011, 151, 333-340.	7.8	32
27	Gold nanobipyramids integrated ultrasensitive optical and electrochemical biosensor for Aflatoxin B1 detection. <i>Talanta</i> , 2021, 222, 121578.	5.5	32
28	Microstructured Cystine Dendrites-Based Impedimetric Sensor for Nucleic Acid Detection. <i>Biomacromolecules</i> , 2011, 12, 2925-2932.	5.4	31
29	Star shaped zinc sulphide quantum dots self-assembled monolayers: Preparation and applications in food toxin detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 624-633.	7.8	31
30	Development of electrochemical biosensor based on CNT-Fe ₃ O ₄ nanocomposite to determine formaldehyde adulteration in orange juice. <i>Journal of Food Science and Technology</i> , 2019, 56, 1829-1840.	2.8	31
31	Quantum Dots Self Assembly Based Interface for Blood Cancer Detection. <i>Langmuir</i> , 2013, 29, 8753-8762.	3.5	30
32	Graphene oxide-metal nanocomposites for cancer biomarker detection. <i>RSC Advances</i> , 2017, 7, 35982-35991.	3.6	30
33	An amperometric bienzymatic biosensor for the triglyceride tributyrin using an indium tin oxide electrode coated with electrophoretically deposited chitosan-wrapped nanozirconia. <i>Mikrochimica Acta</i> , 2016, 183, 167-176.	5.0	28
34	Integrated graphene quantum dot decorated functionalized nanosheet biosensor for mycotoxin detection. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7029-7041.	3.7	28
35	Graphene quantum dots-based nano-biointerface platform for food toxin detection. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7313-7323.	3.7	27
36	Facile synthesis of 2-dimensional transparent graphene flakes for nucleic acid detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 281-289.	7.8	25

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37	Nanostructuring of hierarchical 3D cystine flowers for high-performance electrochemical immunosensor. <i>Biosensors and Bioelectronics</i> , 2014, 61, 328-335.	10.1	24
38	Controlled deposition of functionalized silica coated zinc oxide nano-assemblies at the air/water interface for blood cancer detection. <i>Analytica Chimica Acta</i> , 2016, 937, 29-38.	5.4	24
39	Cationic poly(lactic-co-glycolic acid) iron oxide microspheres for nucleic acid detection. <i>Nanoscale</i> , 2013, 5, 3800.	5.6	23
40	Electrochemical genosensor based on template assisted synthesized polyaniline nanotubes for chronic myelogenous leukemia detection. <i>Talanta</i> , 2018, 187, 379-389.	5.5	23
41	A Novel Electrochemical Biosensor Based on Hematite (α -Fe ₂ O ₃) Flowerlike Nanostructures for Sensitive Determination of Formaldehyde Adulteration in Fruit Juices. <i>Food and Bioprocess Technology</i> , 2019, 12, 1659-1671.	4.7	18
42	Hierarchical cystine flower based electrochemical genosensor for detection of Escherichia coli O157:H7. <i>RSC Advances</i> , 2014, 4, 31047-31055.	3.6	16
43	Comparative Studies of Screen-Printed Electrode Based Electrochemical Biosensor with the Optical Biosensor for Formaldehyde Detection in Corn. <i>Food and Bioprocess Technology</i> , 2021, 14, 726-738.	4.7	15
44	Coupling electrochemical response of a DNA biosensor with PCR for Neisseria gonorrhoeae detection. <i>Diagnostic Microbiology and Infectious Disease</i> , 2014, 78, 16-23.	1.8	13
45	Electrophoretically fabricated core-shell CNT-DNA biowires for biosensing. <i>Journal of Materials Chemistry</i> , 2012, 22, 2727-2732.	6.7	12
46	Immuno-CoPS (conducting paper strips) for futuristic cost-effective cancer diagnostics. <i>RSC Advances</i> , 2013, 3, 11846.	3.6	11
47	Copper oxide assisted cysteine hierarchical structures for immunosensor application. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	11
48	Recent advances in nanomaterials integrated immunosensors for food toxin detection. <i>Journal of Food Science and Technology</i> , 2022, 59, 12-33.	2.8	9
49	Ultrasensitive Immunosensor Based on Langmuir-Blodgett Deposited Ordered Graphene Assemblies for Dengue Detection. <i>Langmuir</i> , 2021, 37, 8705-8713.	3.5	7
50	Antibody conjugated graphene nanocomposites for pathogen detection. <i>Journal of Physics: Conference Series</i> , 2016, 704, 012014.	0.4	6
51	Langmuir-Blodgett based ordered deposition of functionalized iron oxide nanoparticles for ultrasensitive detection of Escherichia coli O157: H7. <i>Microchemical Journal</i> , 2022, 181, 107708.	4.5	5