

Rajesh Rajesh

List of Publications by Year in descending order

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55
papers

2,719
citations

218677

26
h-index

175258

52
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55
all docs

55
docs citations

55
times ranked

3474
citing authors

#	ARTICLE	IF	CITATIONS
1	Technological advancements in bio-recognition using liquid crystals: Techniques, applications, and performance. <i>Luminescence</i> , 2023, 38, 811-833.	2.9	4
2	Scalable chemical vapor deposited graphene field-effect transistors for bio/chemical assay. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	10
3	Integrated graphene quantum dot decorated functionalized nanosheet biosensor for mycotoxin detection. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7029-7041.	3.7	28
4	Biomedical Metrology: Role in Nation's Healthcare Sector. , 2020, , 731-766.		2
5	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
6	Recent progress in the sensing techniques for the detection of human thyroid stimulating hormone. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 666-676.	11.4	13
7	Single-frequency impedance analysis of biofunctionalized dendrimer-encapsulated Pt nanoparticles-modified screen-printed electrode for biomolecular detection. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2649-2657.	2.5	18
8	Single Frequency Impedance Analysis on Reduced Graphene Oxide Screen-Printed Electrode for Biomolecular Detection. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 672-683.	2.9	28
9	Electrochemical Impedance Analysis of Biofunctionalized Conducting Polymer-Modified Graphene-CNTs Nanocomposite for Protein Detection. <i>Nano-Micro Letters</i> , 2017, 9, 7.	27.0	27
10	High performance dendrimer functionalized single-walled carbon nanotubes field effect transistor biosensor for protein detection. <i>Applied Physics Letters</i> , 2016, 109, 243504.	3.3	13
11	Scalable Production of Sensor Arrays Based on High-Mobility Hybrid Graphene Field Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27546-27552.	8.0	44
12	Genetically Engineered Antibody Functionalized Platinum Nanoparticles Modified CVD-Graphene Nanohybrid Transistor for the Detection of Breast Cancer Biomarker, HER3. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600124.	3.7	34
13	Immunoassay for troponin I using a glassy carbon electrode modified with a hybrid film consisting of graphene and multiwalled carbon nanotubes and decorated with platinum nanoparticles. <i>Mikrochimica Acta</i> , 2016, 183, 1375-1384.	5.0	29
14	Electroactive graphene-multi-walled carbon nanotube hybrid supported impedimetric immunosensor for the detection of human cardiac troponin-I. <i>RSC Advances</i> , 2015, 5, 74994-75003.	3.6	36
15	Physicochemical characteristics of reduced graphene oxide based Pt-nanoparticles-conducting polymer nanocomposite film for immunosensor applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1699-1706.	3.2	10
16	Single-walled carbon nanotubes based chemiresistive genosensor for label-free detection of human rheumatic heart disease. <i>Applied Physics Letters</i> , 2014, 105, 213701.	3.3	12
17	Conducting polymer functionalized single-walled carbon nanotube based chemiresistive biosensor for the detection of human cardiac myoglobin. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	17
18	Biointerfacial impedance characterization of reduced graphene oxide supported carboxyl pendant conducting copolymer based electrode. <i>Electrochimica Acta</i> , 2014, 123, 211-218.	5.2	11

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19	Nonenzymatic Glucose Sensor Based on Platinum Nanoflowers Decorated Multiwalled Carbon Nanotubesâ€“Graphene Hybrid Electrode. <i>Electroanalysis</i> , 2014, 26, 103-108.	2.9	76
20	Microstructural and Potential Dependence Studies of Urease-Immobilized Gold Nanoparticlesâ€“Polypyrrole Composite Film for Urea Detection. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 1055-1069.	2.9	10
21	Pt nanoparticles-chemical vapor deposited graphene composite based immunosensor for the detection of human cardiac troponin I. <i>Sensors and Actuators B: Chemical</i> , 2014, 205, 363-370.	7.8	43
22	Ultrasensitive Electrochemical Immunosensor Based on Pt Nanoparticleâ€“Graphene Composite. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 971-983.	2.9	10
23	Biofunctionalized Gold Nanoparticle-Conducting Polymer Nanocomposite Based Bioelectrode for CRP Detection. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 984-997.	2.9	13
24	Synthesis and Characterization of Reduced Graphene Oxide Supported Gold Nanoparticles-Poly(Pyrrole-Co-Pyrrolepropylic Acid) Nanocomposite-Based Electrochemical Biosensor. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 911-925.	2.9	13
25	Bio-functionalized Pt nanoparticles based electrochemical impedance immunosensor for human cardiac myoglobin. <i>RSC Advances</i> , 2014, 4, 21267-21276.	3.6	28
26	Protein functionalized Pt nanoparticles-conducting polymer nanocomposite film: Characterization and immunosensor application. <i>Polymer</i> , 2014, 55, 4003-4011.	3.8	16
27	Enzyme-modified indium tin oxide microelectrode array-based electrochemical uric acid biosensor. <i>Progress in Biomaterials</i> , 2013, 2, 5.	4.5	22
28	Microstructural and electrochemical impedance characterization of bio-functionalized ultrafine ZnS nanocrystalsâ€“reduced graphene oxide hybrid for immunosensor applications. <i>Nanoscale</i> , 2013, 5, 10494.	5.6	28
29	Platinum nanoflowers decorated three-dimensional grapheneâ€“carbon nanotubes hybrid with enhanced electrocatalytic activity. <i>Journal of Power Sources</i> , 2013, 223, 23-29.	7.8	49
30	Structural and impedance spectroscopic studies on biofunctionalized poly(pyrrole-co-pyrrolepropylic acid) film. <i>Synthetic Metals</i> , 2013, 169, 18-24.	3.9	7
31	ZnS-nanocrystals/polypyrrole nanocomposite film based immunosensor. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	16
32	Electrochemical impedance spectroscopy characterization of mercaptopropionic acid capped ZnS nanocrystal based bioelectrode for the detection of the cardiac biomarkerâ€“myoglobin. <i>Bioelectrochemistry</i> , 2012, 88, 118-126.	4.6	62
33	Synthesis and electrochemical characterization of myoglobin-antibody protein immobilized self-assembled gold nanoparticles on ITO-glass plate. <i>Materials Chemistry and Physics</i> , 2012, 132, 22-28.	4.0	22
34	Potentiometric urea biosensor based on multi-walled carbon nanotubes (MWCNTs)/silica composite material. <i>Materials Science and Engineering C</i> , 2011, 31, 90-94.	7.3	45
35	Immobilization of Uricase Enzyme on Self-Assembled Gold Nanoparticles for Application in Uric Acid Biosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4692-4701.	0.9	19
36	ZnS nanocrystals decorated single-walled carbon nanotube based chemiresistive label-free DNA sensor. <i>Applied Physics Letters</i> , 2011, 98, 13701.	3.3	26

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37	Photo-induced charge transport in ZnS nanocrystals decorated single walled carbon nanotube field-effect transistor. Applied Physics Letters, 2011, 99, 173110.	3.3	13
38	An amperometric uric acid biosensor based on Bis[sulfosuccinimidyl] suberate crosslinker/3-aminopropyltriethoxysilane surface modified ITO glass electrode. Thin Solid Films, 2010, 519, 1128-1134.	1.8	39
39	Electrochemical impedance immunosensor for the detection of cardiac biomarker Myoglobin (Mb) in aqueous solution. Thin Solid Films, 2010, 519, 1167-1170.	1.8	43
40	Electrochemical Impedance Immunosensor for the Detection of C-Reactive Protein in Aqueous Solution. Sensor Letters, 2010, 8, 362-369.	0.4	10
41	Recent progress in the development of nano-structured conducting polymers/nanocomposites for sensor applications. Sensors and Actuators B: Chemical, 2009, 136, 275-286.	7.8	494
42	Potentiometric urea biosensor based on BSA embedded surface modified polypyrrole film. Sensors and Actuators B: Chemical, 2008, 134, 140-145.	7.8	68
43	Polymer Based Urea Biosensors: A Brief Overview. Sensor Letters, 2008, 6, 663-674.	0.4	6
44	Biomolecular immobilization on conducting polymers for biosensing applications. Biomaterials, 2007, 28, 791-805.	11.4	458
45	A novel thin film urea biosensor based on copolymer poly(N-3-aminopropylpyrrole-co-pyrrole) film. Surface and Coatings Technology, 2005, 198, 231-236.	4.8	39
46	A new tyrosinase biosensor based on covalent immobilization of enzyme on N-(3-aminopropyl) pyrrole polymer film. Current Applied Physics, 2005, 5, 178-183.	2.4	54
47	Simultaneous co-immobilization of enzyme and a redox mediator in polypyrrole film for the fabrication of an amperometric phenol biosensor. Current Applied Physics, 2005, 5, 184-188.	2.4	24
48	An amperometric urea biosensor based on covalent immobilization of urease onto an electrochemically prepared copolymer poly (N-3-aminopropyl pyrrole-co-pyrrole) film. Biomaterials, 2005, 26, 3683-3690.	11.4	180
49	Development of a potentiometric urea biosensor based on copolymer poly(N-3-aminopropyl) Tj ETQq1 1 0.784314 rgBT / Overlock 10	4.1	36
50	Amperometric tyrosinase based biosensor using an electropolymerized PTS-doped polypyrrole film as an entrapment support. Reactive and Functional Polymers, 2004, 59, 163-169.	4.1	62
51	Immobilization of glucose oxidase onto electrochemically prepared poly(aniline-co-fluoroaniline) films. Journal of Applied Polymer Science, 2004, 91, 3999-4006.	2.6	28
52	Immobilization of glucose oxidase onto electrochemically prepared poly(aniline-co-fluoroaniline) films. Journal of Applied Polymer Science, 2004, 92, 1374-1374.	2.6	4
53	Development of an amperometric biosensor based on a redox-mediator-doped polypyrrole film. Journal of Applied Polymer Science, 2004, 93, 927-933.	2.6	27
54	Amperometric phenol biosensor based on covalent immobilization of tyrosinase onto an electrochemically prepared novel copolymer poly (N-3-aminopropyl pyrrole-co-pyrrole) film. Sensors and Actuators B: Chemical, 2004, 102, 271-277.	7.8	112

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55	Immobilization of cholesterol oxidase and potassium ferricyanide on dodecylbenzene sulfonate ion-doped polypyrrole film. <i>Journal of Applied Polymer Science</i> , 2001, 82, 3486-3491.	2.6	112