

# Rajesh Rajesh

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

2,719  
citations

218677

26  
h-index

175258

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3474  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in the development of nano-structured conducting polymers/nanocomposites for sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2009, 136, 275-286.	7.8	494
2	Biomolecular immobilization on conducting polymers for biosensing applications. <i>Biomaterials</i> , 2007, 28, 791-805.	11.4	458
3	An amperometric urea biosensor based on covalent immobilization of urease onto an electrochemically prepared copolymer poly (N-3-aminopropyl pyrrole-co-pyrrole) film. <i>Biomaterials</i> , 2005, 26, 3683-3690.	11.4	180
4	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
5	Amperometric phenol biosensor based on covalent immobilization of tyrosinase onto an electrochemically prepared novel copolymer poly (N-3-aminopropyl pyrrole-co-pyrrole) film. <i>Sensors and Actuators B: Chemical</i> , 2004, 102, 271-277.	7.8	112
6	Nonenzymatic Glucose Sensor Based on Platinum Nanoflowers Decorated Multiwalled Carbon Nanotubes-Graphene Hybrid Electrode. <i>Electroanalysis</i> , 2014, 26, 103-108.	2.9	76
7	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
8	Potentiometric urea biosensor based on BSA embedded surface modified polypyrrole film. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 140-145.	7.8	68
9	Amperometric tyrosinase based biosensor using an electropolymerized PTS-doped polypyrrole film as an entrapment support. <i>Reactive and Functional Polymers</i> , 2004, 59, 163-169.	4.1	62
10	Electrochemical impedance spectroscopy characterization of mercaptopropionic acid capped ZnS nanocrystal based bioelectrode for the detection of the cardiac biomarker "myoglobin". <i>Bioelectrochemistry</i> , 2012, 88, 118-126.	4.6	62
11	A new tyrosinase biosensor based on covalent immobilization of enzyme on N-(3-aminopropyl) pyrrole polymer film. <i>Current Applied Physics</i> , 2005, 5, 178-183.	2.4	54
12	Platinum nanoflowers decorated three-dimensional graphene-carbon nanotubes hybrid with enhanced electrocatalytic activity. <i>Journal of Power Sources</i> , 2013, 223, 23-29.	7.8	49
13	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
14	Scalable Production of Sensor Arrays Based on High-Mobility Hybrid Graphene Field Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27546-27552.	8.0	44
15	Electrochemical impedance immunosensor for the detection of cardiac biomarker Myoglobin (Mb) in aqueous solution. <i>Thin Solid Films</i> , 2010, 519, 1167-1170.	1.8	43
16	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
17	A novel thin film urea biosensor based on copolymer poly(N-3-aminopropylpyrrole-co-pyrrole) film. <i>Surface and Coatings Technology</i> , 2005, 198, 231-236.	4.8	39
18	An amperometric uric acid biosensor based on Bis[sulfosuccinimidyl] suberate crosslinker/3-aminopropyltriethoxysilane surface modified ITO glass electrode. <i>Thin Solid Films</i> , 2010, 519, 1128-1134.	1.8	39

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19	Development of a potentiometric urea biosensor based on copolymer poly(N-3-aminopropyl) Tj ETQq1 1 0.784314 491 / Overlock 10	4.1	36
20	Electroactive graphene-multi-walled carbon nanotube hybrid supported impedimetric immunosensor for the detection of human cardiac troponin-I. RSC Advances, 2015, 5, 74994-75003.	3.6	36
21	Genetically Engineered Antibody Functionalized Platinum Nanoparticles Modified CVD-Graphene Nanohybrid Transistor for the Detection of Breast Cancer Biomarker, HER3. Advanced Materials Interfaces, 2016, 3, 1600124.	3.7	34
22	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. Mikrochimica Acta, 2016, 183, 1375-1384.	5.0	29
23	Immobilization of glucose oxidase onto electrochemically prepared poly(aniline-co-fluoroaniline) films. Journal of Applied Polymer Science, 2004, 91, 3999-4006.	2.6	28
24	Microstructural and electrochemical impedance characterization of bio-functionalized ultrafine ZnS nanocrystals-reduced graphene oxide hybrid for immunosensor applications. Nanoscale, 2013, 5, 10494.	5.6	28
25	Bio-functionalized Pt nanoparticles based electrochemical impedance immunosensor for human cardiac myoglobin. RSC Advances, 2014, 4, 21267-21276.	3.6	28
26	Single Frequency Impedance Analysis on Reduced Graphene Oxide Screen-Printed Electrode for Biomolecular Detection. Applied Biochemistry and Biotechnology, 2017, 183, 672-683.	2.9	28
27	Integrated graphene quantum dot decorated functionalized nanosheet biosensor for mycotoxin detection. Analytical and Bioanalytical Chemistry, 2020, 412, 7029-7041.	3.7	28
28	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
29	Electrochemical Impedance Analysis of Biofunctionalized Conducting Polymer-Modified Graphene-CNTs Nanocomposite for Protein Detection. Nano-Micro Letters, 2017, 9, 7.	27.0	27
30	ZnS nanocrystals decorated single-walled carbon nanotube based chemiresistive label-free DNA sensor. Applied Physics Letters, 2011, 98, 13701.	3.3	26
31	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
32	Synthesis and electrochemical characterization of myoglobin-antibody protein immobilized self-assembled gold nanoparticles on ITO-glass plate. Materials Chemistry and Physics, 2012, 132, 22-28.	4.0	22
33	Enzyme-modified indium tin oxide microelectrode array-based electrochemical uric acid biosensor. Progress in Biomaterials, 2013, 2, 5.	4.5	22
34	Immobilization of Uricase Enzyme on Self-Assembled Gold Nanoparticles for Application in Uric Acid Biosensor. Journal of Nanoscience and Nanotechnology, 2011, 11, 4692-4701.	0.9	19
35	Single-frequency impedance analysis of biofunctionalized dendrimer-encapsulated Pt nanoparticles-modified screen-printed electrode for biomolecular detection. Journal of Solid State Electrochemistry, 2018, 22, 2649-2657.	2.5	18
36	Conducting polymer functionalized single-walled carbon nanotube based chemiresistive biosensor for the detection of human cardiac myoglobin. Applied Physics Letters, 2014, 105, .	3.3	17

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37	ZnS-nanocrystals/polypyrrole nanocomposite film based immunosensor. Applied Physics Letters, 2012, 100, .	3.3	16
38	Protein functionalized Pt nanoparticles-conducting polymer nanocomposite film: Characterization and immunosensor application. Polymer, 2014, 55, 4003-4011.	3.8	16
39	Photo-induced charge transport in ZnS nanocrystals decorated single walled carbon nanotube field-effect transistor. Applied Physics Letters, 2011, 99, 173110.	3.3	13
40	Biofunctionalized Gold Nanoparticle-Conducting Polymer Nanocomposite Based Bioelectrode for CRP Detection. Applied Biochemistry and Biotechnology, 2014, 174, 984-997.	2.9	13
41	Synthesis and Characterization of Reduced Graphene Oxide Supported Gold Nanoparticles-Poly(Pyrrole-Co-Pyrrolepropylic Acid) Nanocomposite-Based Electrochemical Biosensor. Applied Biochemistry and Biotechnology, 2014, 174, 911-925.	2.9	13
42	High performance dendrimer functionalized single-walled carbon nanotubes field effect transistor biosensor for protein detection. Applied Physics Letters, 2016, 109, 243504.	3.3	13
43	Recent progress in the sensing techniques for the detection of human thyroid stimulating hormone. TrAC - Trends in Analytical Chemistry, 2019, 118, 666-676.	11.4	13
44	Single-walled carbon nanotubes based chemiresistive genosensor for label-free detection of human rheumatic heart disease. Applied Physics Letters, 2014, 105, 213701.	3.3	12
45	Biointerfacial impedance characterization of reduced graphene oxide supported carboxyl pendant conducting copolymer based electrode. Electrochimica Acta, 2014, 123, 211-218.	5.2	11
46	Microstructural and Potential Dependence Studies of Urease-Immobilized Gold Nanoparticles-Polypyrrole Composite Film for Urea Detection. Applied Biochemistry and Biotechnology, 2014, 172, 1055-1069.	2.9	10
47	Ultrasensitive Electrochemical Immunosensor Based on Pt Nanoparticle-Graphene Composite. Applied Biochemistry and Biotechnology, 2014, 174, 971-983.	2.9	10
48	Physicochemical characteristics of reduced graphene oxide based Pt-nanoparticles-conducting polymer nanocomposite film for immunosensor applications. Journal of Chemical Technology and Biotechnology, 2015, 90, 1699-1706.	3.2	10
49	Scalable chemical vapor deposited graphene field-effect transistors for bio/chemical assay. Applied Physics Reviews, 2021, 8, .	11.3	10
50	Electrochemical Impedance Immunosensor for the Detection of C-Reactive Protein in Aqueous Solution. Sensor Letters, 2010, 8, 362-369.	0.4	10
51	Structural and impedance spectroscopic studies on biofunctionalized poly(pyrrole-co-pyrrolepropylic acid) film. Synthetic Metals, 2013, 169, 18-24.	3.9	7
52	Polymer Based Urea Biosensors: A Brief Overview. Sensor Letters, 2008, 6, 663-674.	0.4	6
53	Immobilization of glucose oxidase onto electrochemically prepared poly(aniline-co-fluoroaniline) films. Journal of Applied Polymer Science, 2004, 92, 1374-1374.	2.6	4
54	Technological advancements in bio-recognition using liquid crystals: Techniques, applications, and performance. Luminescence, 2023, 38, 811-833.	2.9	4

#	ARTICLE	IF	CITATIONS
55	Biomedical Metrology: Role in Nation's Healthcare Sector. , 2020, , 731-766.		2