

Gorachand Dutta

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

625
citations

516561

16
h-index

610775

24
g-index

33
all docs

33
docs citations

33
times ranked

719
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzyme-free electrochemical immunosensor based on methylene blue and the electro-oxidation of hydrazine on Pt nanoparticles. <i>Biosensors and Bioelectronics</i> , 2017, 92, 372-377.	5.3	59
2	Low-Interference Washing-Free Electrochemical Immunosensor Using Glycerol-3-phosphate Dehydrogenase as an Enzyme Label. <i>Analytical Chemistry</i> , 2015, 87, 3574-3578.	3.2	56
3	Washing-Free Heterogeneous Immunosensor Using Proximity-Dependent Electron Mediation between an Enzyme Label and an Electrode. <i>Analytical Chemistry</i> , 2014, 86, 4589-4595.	3.2	52
4	A comprehensive review on current COVID-19 detection methods: From lab care to point of care diagnosis. <i>Sensors International</i> , 2021, 2, 100119.	4.9	41
5	Redox cycling-amplified enzymatic Ag deposition and its application in the highly sensitive detection of creatine kinase-MB. <i>Chemical Communications</i> , 2015, 51, 14493-14496.	2.2	39
6	Microfluidic Devices for Label-Free DNA Detection. <i>Chemosensors</i> , 2018, 6, 43.	1.8	38
7	An ultrasensitive enzyme-free electrochemical immunosensor based on redox cycling amplification using methylene blue. <i>Analyst, The</i> , 2017, 142, 3492-3499.	1.7	37
8	Enzyme-assisted glucose quantification for a painless Lab-on-PCB patch implementation. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112484.	5.3	32
9	Wash-free, label-free immunoassay for rapid electrochemical detection of PflHRP2 in whole blood samples. <i>Scientific Reports</i> , 2018, 8, 17129.	1.6	30
10	From photosynthesis to biosensing: Chlorophyll proves to be a versatile molecule. <i>Sensors International</i> , 2020, 1, 100058.	4.9	29
11	Electrochemical Biosensors for Cytokine Profiling: Recent Advancements and Possibilities in the Near Future. <i>Biosensors</i> , 2021, 11, 94.	2.3	27
12	Label-Free Electrochemical Detection of <i>S. mutans</i> Exploiting Commercially Fabricated Printed Circuit Board Sensing Electrodes. <i>Micromachines</i> , 2019, 10, 575.	1.4	24
13	Aptamer-based biosensors and their implications in COVID-19 diagnosis. <i>Analytical Methods</i> , 2021, 13, 5400-5417.	1.3	23
14	An asymmetric dinuclear copper(II) complex with phenoxo and acetate bridges: Synthesis, structure and magnetic studies. <i>Polyhedron</i> , 2011, 30, 293-298.	1.0	19
15	Sensitive electrochemical detection of vaccinia virus in a solution containing a high concentration of ascorbic acid. <i>Analyst, The</i> , 2015, 140, 5481-5487.	1.7	19
16	Commercially Fabricated Printed Circuit Board Sensing Electrodes for Biomarker Electrochemical Detection: The Importance of Electrode Surface Characteristics in Sensor Performance. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	16
17	A concentration dependent auto-relay-recognition by the same analyte: a dual fluorescence switch-on by hydrogen sulfide via Michael addition followed by reduction and staining for bio-activity. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 570-576.	1.5	14
18	Electrochemical biosensors for rapid detection of malaria. <i>Materials Science for Energy Technologies</i> , 2020, 3, 150-158.	1.0	10

#	ARTICLE	IF	CITATIONS
19	Time-dependent decrease in the enhanced electrocatalytic activities observed after three different pretreatments of gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2012, 675, 41-46.	1.9	9
20	Effect of Fenton's reagent on the electrocatalytic activity of gold nanoparticles. <i>Electrochemistry Communications</i> , 2011, 13, 1328-1331.	2.3	8
21	Improvement of the electrocatalytic activities of long-aged Pt electrodes and the change of the improved activities with aging. <i>Electrochimica Acta</i> , 2014, 141, 319-323.	2.6	6
22	Sensing Soluble Immune Checkpoint Molecules and Disease-Relevant Cytokines in Cancer: A Novel Paradigm in Disease Diagnosis and Monitoring. <i>Frontiers in Sensors</i> , 2022, 3, .	1.7	6
23	Towards self-powered and autonomous wearable glucose sensor. , 2018, , .		5
24	Emerging evidence for serum procalcitonin estimation at point-of-care and advancement in quantitative sensing strategies over the past decade. <i>Sensors International</i> , 2021, 2, 100107.	4.9	5
25	Nanobiosensor-Based Diagnostic System: Transducers and Surface Materials. , 2020, , 1-13.		5
26	Immunological profiling and development of a sensing device for detection of IL-13 in COPD and asthma. <i>Bioelectrochemistry</i> , 2022, 143, 107971.	2.4	5
27	Advanced integrative sensing technologies for detection of drug-resistant tuberculosis in point-of-care settings. <i>Sensors International</i> , 2020, 1, 100036.	4.9	4
28	Effects of Aging on Electrocatalytic Activities of Pt and Pd Nanoparticles. <i>Journal of Electrochemical Science and Technology</i> , 2016, 7, 27-32.	0.9	2
29	Effects of Aging on Electrocatalytic Activities of Pt and Pd Nanoparticles. <i>Journal of Electrochemical Science and Technology</i> , 2016, 7, 27-32.	0.9	2
30	Facile decrease in the electron-transfer rate and surface roughness of gold by ultrasonic treatment. <i>Chemical Communications</i> , 2012, 48, 8841.	2.2	1
31	Electrochemical Redox Cycling Amplification Technology for Point-of-Care Cancer Diagnosis. , 2017, , 133-154.		1
32	Redox Cycling Technologies for Point-of-Care Immunodiagnosics in Various Matrices. , 2021, , 75-91.		1
33	Current Methods and Future of Tuberculosis (TB) Diagnosis. <i>Studies in Systems, Decision and Control</i> , 2021, , 163-182.	0.8	0