Rosa F Dutra

List of Publications by Year
in descending order

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Version: 2024-02-01

73 papers	2,483 citations	159525 30 h-index	206029 48 g-index
76 all docs	76 docs citations	76 times ranked	2960 citing authors

#	Article	IF	Citations
1	A carbon nanotube-based electrochemical immunosensor for cardiac troponin T. Microchemical Journal, 2013, 109, 10-15.	2.3	124
2	A sensor tip based on carbon nanotube-ink printed electrode for the dengue virus NS1 protein. Biosensors and Bioelectronics, 2013, 44, 216-221.	5.3	109
3	An ultrasensitive human cardiac troponin T graphene screen-printed electrode based on electropolymerized-molecularly imprinted conducting polymer. Biosensors and Bioelectronics, 2016, 77, 978-985.	5.3	103
4	An SPR immunosensor for human cardiac troponin T using specific binding avidin to biotin at carboxymethyldextran-modified gold chip. Clinica Chimica Acta, 2007, 376, 114-120.	0.5	97
5	Surface plasmon resonance immunosensor for human cardiac troponin T based on self-assembled monolayer. Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 1744-1750.	1.4	92
6	Smart plastic antibody material (SPAM) tailored on disposable screen printed electrodes for protein recognition: Application to myoglobin detection. Biosensors and Bioelectronics, 2013, 45, 237-244.	5.3	86
7	Protein-responsive polymers for point-of-care detection of cardiac biomarker. Sensors and Actuators B: Chemical, 2014, 196, 123-132.	4.0	85
8	Electrochemical biosensor based on biomimetic material for myoglobin detection. Electrochimica Acta, 2013, 107, 481-487.	2.6	81
9	Occurrence of Natural Vertical Transmission of Dengue-2 and Dengue-3 Viruses in Aedes aegypti and Aedes albopictus in Fortaleza, CearÃ¡, Brazil. PLoS ONE, 2012, 7, e41386.	1.1	80
10	Dengue immunoassay with an LSPR fiber optic sensor. Optics Express, 2013, 21, 27023.	1.7	76
11	Artificial antibodies for troponin T by its imprinting on the surface of multiwalled carbon nanotubes: Its use as sensory surfaces. Biosensors and Bioelectronics, 2011, 28, 243-250.	5.3	72
12	Disposable immunosensor for human cardiac troponin T based on streptavidin-microsphere modified screen-printed electrode. Biosensors and Bioelectronics, 2010, 26, 1062-1067.	5.3	71
13	Electrochemical detection of dengue virus NS1 protein with a poly(allylamine)/carbon nanotube layered immunoelectrode. Journal of Chemical Technology and Biotechnology, 2015, 90, 194-200.	1.6	70
14	Potential of a simplified measurement scheme and device structure for a low cost label-free point-of-care capacitive biosensor. Biosensors and Bioelectronics, 2009, 25, 870-876.	5.3	62
15	A label-free electrochemical immunosensor for hepatitis B based on hyaluronic acidâ€“carbon nanotube hybrid film. Talanta, 2016, 148, 209-215.	2.9	56
16	Myoglobin-biomimetic electroactive materials made by surface molecular imprinting on silica beads and their use as ionophores in polymeric membranes for potentiometric transduction. Biosensors and Bioelectronics, 2011, 26, 4760-4766.	5.3	55
17	Novel sensory surface for creatine kinase electrochemical detection. Biosensors and Bioelectronics, 2014, 56, 217-222.	5.3	54
18	A probeless and label-free electrochemical immunosensor for cystatin C detection based on ferrocene functionalized-graphene platform. Biosensors and Bioelectronics, 2019, 138, 111311.	5.3	54

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19	A thiophene-modified screen printed electrode for detection of dengue virus NS1 protein. Talanta, 2014, 128, 505-510.	2.9	49
20	A carbon nanotube screen-printed electrode for label-free detection of the human cardiac troponin T. Talanta, 2013, 117, 431-437.	2.9	47
21	A label-free immunosensor based on recordable compact disk chip for early diagnostic of the dengue virus infection. Biochemical Engineering Journal, 2012, 67, 225-230.	1.8	44
22	A disposable chitosan-modified carbon fiber electrode for dengue virus envelope protein detection. Talanta, 2012, 91, 41-46.	2.9	43
23	Redox probe-free readings of a Î²-amyloid-42 plastic antibody sensory material assembled on copper@carbon nanotubes. Sensors and Actuators B: Chemical, 2018, 264, 1-9.	4.0	43
24	A dual quartz crystal microbalance for human cardiac troponin T in real time detection. Sensors and Actuators B: Chemical, 2012, 161, 439-446.	4.0	41
25	Cobalt phthalocyanine as a biomimetic catalyst in the amperometric quantification of dipyrone using FIA. Talanta, 2011, 85, 2067-2073.	2.9	38
26	Cratylia mollis lectin nanoelectrode for differential diagnostic of prostate cancer and benign prostatic hyperplasia based on label-free detection. Biosensors and Bioelectronics, 2016, 85, 171-177.	5.3	38
27	A label-free electrochemical immunosensor based on an ionic organic molecule and chitosan-stabilized gold nanoparticles for the detection of cardiac troponin T. Analyst, The, 2014, 139, 5200-5208.	1.7	36
28	A Nanostructured Piezoelectric Immunosensor for Detection of Human Cardiac Troponin T. Sensors, 2011, 11, 10785-10797.	2.1	34
29	Novel biosensing device for point-of-care applications with plastic antibodies grown on Au-screen printed electrodes. Sensors and Actuators B: Chemical, 2013, 182, 733-740.	4.0	31
30	Novel electrochemical genosensor for Zika virus based on a poly-(3-amino-4-hydroxybenzoic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 T	4.0	30
31	Gold electrode modified by self-assembled monolayers of thiols to determine DNA sequences hybridization. Journal of Chemical Sciences, 2010, 122, 911-917.	0.7	28
32	An ultrasensitive Cystatin C renal failure immunosensor based on a PPy/CNT electrochemical capacitor grafted on interdigitated electrode. Colloids and Surfaces B: Biointerfaces, 2020, 189, 110834.	2.5	27
33	Amino-Functionalization of Carbon Nanotubes by Using a Factorial Design: Human Cardiac Troponin T Immunosensing Application. BioMed Research International, 2014, 2014, 1-9.	0.9	26
34	Detection of cardiac biomarker proteins using a disposable based on a molecularly imprinted polymer grafted onto graphite. Mikrochimica Acta, 2015, 182, 975-983.	2.5	26
35	Immobilization of urease on vapour phase stain etched porous silicon. Process Biochemistry, 2007, 42, 429-433.	1.8	25
36	An o-aminobenzoic acid film-based immunoelectrode for detection of the cardiac troponin T in human serum. Biochemical Engineering Journal, 2013, 71, 97-104.	1.8	25

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37	Homemade 3-carbon electrode system for electrochemical sensing: Application to microRNA detection. Microchemical Journal, 2018, 138, 35-44.	2.3	25
38	A piezoelectric immunosensor for Leishmania chagasi antibodies in canine serum. Analytical and Bioanalytical Chemistry, 2011, 401, 917-925.	1.9	23
39	Partitioning of lactate dehydrogenase from bovine heart crude extract by polyethylene glycolâ€“citrate aqueous two-phase systems. Fluid Phase Equilibria, 2011, 301, 46-50.	1.4	22
40	Immobilization of pneumococcal polysaccharide vaccine on silicon oxide wafer for an acoustical biosensor. Biosensors and Bioelectronics, 2000, 15, 511-514.	5.3	21
41	A label-free and reagentless immunoelectrode for antibodies against hepatitis B core antigen (anti-HBc) detection. Colloids and Surfaces B: Biointerfaces, 2018, 172, 272-279.	2.5	20
42	Transient Expression of Dengue Virus NS1 Antigen in Nicotiana benthamiana for Use as a Diagnostic Antigen. Frontiers in Plant Science, 2019, 10, 1674.	1.7	18
43	Engineering a plasmonic sensing platform for Candida albicans antigen identification. Journal of Nanophotonics, 2018, 12, 1.	0.4	18
44	An Inexpensive Biosensor for Uric Acid Determination in Human Serum by Flow-Injection Analysis. Electroanalysis, 2005, 17, 701-705.	1.5	17
45	A gold nanoparticle piezoelectric immunosensor using a recombinant antigen for detecting Leishmania infantum antibodies in canine serum. Biochemical Engineering Journal, 2016, 110, 43-50.	1.8	16
46	Plastic Antibody of Polypyrrole/Multiwall Carbon Nanotubes on Screen-Printed Electrodes for Cystatin C Detection. Biosensors, 2021, 11, 175.	2.3	16
47	Next generation of optodes coupling plastic antibody with optical fibers for selective quantification of Acid Green 16. Sensors and Actuators B: Chemical, 2020, 305, 127553.	4.0	14
48	NS1 glycoprotein detection in serum and urine as an electrochemical screening immunosensor for dengue and Zika virus. Analytical and Bioanalytical Chemistry, 2021, 413, 4873-4885.	1.9	12
49	Detection of Parasite Antigens inLeishmania infantumâ€“Infected Spleen Tissue by Monoclonal Antibody-, Piezoelectric-Based Immunosensors. Journal of Parasitology, 2014, 100, 73-78.	0.3	11
50	Title is missing!. Biotechnology Letters, 2000, 22, 579-583.	1.1	10
51	Surface Imprinting Approach on Screen Printed Electrodes Coated with Carboxylated PVC for Myoglobin detection with Electrochemical Transduction. Procedia Engineering, 2012, 47, 865-868.	1.2	10
52	Psychometric evaluation of a Brazilian version of the impact of weight on quality of life (IWQOLâ€Lite) instrument. European Eating Disorders Review, 2010, 18, 58-66.	2.3	9
53	Low IL10 serum levels as key factor for predicting the sustained virological response to IFNÎ±/ribavirin in Brazilian patients with HCV carrying IL28B CT/TT genotype. Human Immunology, 2014, 75, 895-900.	1.2	9
54	Electrochemical immunosensor for differential diagnostic of Wuchereria bancrofti using a synthetic peptide. Biosensors and Bioelectronics, 2018, 113, 9-15.	5.3	9

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55	A Label and Probe-Free Zika Virus Immunosensor Prussian Blue@carbon Nanotube-Based for Amperometric Detection of the NS2B Protein. Biosensors, 2021, 11, 157.	2.3	9
56	A novel xyloglucan film-based biosensor for toxicity assessment of ricin in castor seed meal. Carbohydrate Polymers, 2012, 89, 586-591.	5.1	8
57	Electrochemical potential of free and immobilized Cratylia mollis seed lectin. Bioresource Technology, 2003, 88, 255-258.	4.8	6
58	Chitosan polymer as support to IgG immobilization for piezoelectric applications. Applied Surface Science, 2013, 274, 33-38.	3.1	6
59	A Novel Redoxâ€free Immunosensor Concept Based on Cobalt Phthalocyanine@carbon Nanotubes Pseudocapacitor for Cardiac Bâ€type Natriuretic Peptide Detection. Electroanalysis, 2021, 33, 2302-2309.	1.5	6
60	An ultrasensitive electrochemical immunosensor for hepatitis C antibodies based on one-step-eletrosynthetized polypyrroleâ€“graphene nanocomposite. Journal of Materials Science, 2022, 57, 5586-5595.	1.7	5
61	Nanomaterials for Advancing the Health Immunosensor. , 0, , .		4
62	ProduÃ§Ã£o de anticorpos policlonais anti-ricina. Ciencia E Agrotecnologia, 2011, 35, 124-130.	1.5	4
63	Biossensor amperomÃ©trico para determinaÃ§Ã£o de perÃ³xido de hidrogÃªnio em leite. Ecletica Quimica, 2011, 36, 143-157.	0.2	3
64	A Simple HPV 18 Detection Method Based on Ultra Specific Primer Immobilized on Glass Slides. Journal of Clinical Laboratory Analysis, 2013, 27, 143-147.	0.9	2
65	Engineering of solution-based localized surface plasmon resonance platform for dengue diagnosis. , 2017, , .		2
66	Non-structural protein 1 from Zika virus: Heterologous expression, purification, and potential for diagnosis of Zika infections. International Journal of Biological Macromolecules, 2021, 186, 984-993.	3.6	2
67	Fiber Optic Sensor with Au Nanoparticles for Dengue Immunoassay. , 2013, , .		2
68	Development of a localized surface plasmon resonance platform for Candida albicans antigen identification. , 2015, , .		1
69	Ultrasensitive Genosensor Based on Minor Grove Binding (MGB) Probe forIL28BSingle Nucleotide Polymorphism (SNP) Detection Using SYBR Green as Electrochemical Indicator. Electroanalysis, 2018, 30, 2847-2852.	1.5	1
70	Development of a selective molecularly imprinted polymer for troponin T detection: a theoretical-experimental approach. Materials Today Communications, 2022, 30, 102996.	0.9	1
71	‹title›Surface plasmon resonance imaging applied to immunosensing‹/title›. , 2001, 4254, 128.		0
72	Semiconducting Nanocomposites: Potential tools For Optoelectronic Applications. , 2010, , .		0

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73	Impedimetric Immunosensors for Clinical Practices: Focus on Point-of-Care Diagnostics. , 2022, , 283-304.		0