

Maria DI Oliveira

List of Publications by Year in descending order

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52
papers

1,328
citations

279778

23
h-index

377849

34
g-index

52
all docs

52
docs citations

52
times ranked

1655
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbohydrate-protein interactions and their biosensing applications. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3161-3176.	3.7	100
2	Purification of a lectin from <i>Eugenia uniflora</i> L. seeds and its potential antibacterial activity. <i>Letters in Applied Microbiology</i> , 2008, 46, 371-376.	2.2	61
3	Nanostructured sensor based on carbon nanotubes and clavanin A for bacterial detection. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 833-839.	5.0	60
4	Electrochemical immunosensor for dengue virus serotypes based on 4-mercaptobenzoic acid modified gold nanoparticles on self-assembled cysteine monolayers. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 565-572.	7.8	59
5	An impedimetric biosensor for detection of dengue serotype at picomolar concentration based on gold nanoparticles-polyaniline hybrid composites. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 86, 414-419.	5.0	58
6	Detection of dengue virus serotypes on the surface of gold electrode based on <i>Cratylia mollis</i> lectin affinity. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 789-795.	7.8	57
7	Impedimetric biosensor based on self-assembled hybrid cystein-gold nanoparticles and CramoLL lectin for bacterial lipopolysaccharide recognition. <i>Journal of Colloid and Interface Science</i> , 2011, 362, 194-201.	9.4	55
8	Concanavalin A and polyvinyl butyral use as a potential dengue electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2009, 25, 728-732.	10.1	48
9	A simple nanostructured biosensor based on clavanin A antimicrobial peptide for gram-negative bacteria detection. <i>Biochemical Engineering Journal</i> , 2017, 124, 108-114.	3.6	45
10	Nanostructured impedimetric lectin-based biosensor for arboviruses detection. <i>Talanta</i> , 2020, 208, 120338.	5.5	42
11	Self-assembled monolayers of mercaptobenzoic acid and magnetite nanoparticles as an efficient support for development of tuberculosis genosensor. <i>Journal of Colloid and Interface Science</i> , 2014, 433, 141-148.	9.4	38
12	Electrochemical evaluation of lectin-sugar interaction on gold electrode modified with colloidal gold and polyvinyl butyral. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 66, 13-19.	5.0	37
13	Diagnosis of dengue infection using a modified gold electrode with hybrid organic-inorganic nanocomposite and <i>Bauhinia monandra</i> lectin. <i>Journal of Colloid and Interface Science</i> , 2011, 362, 517-523.	9.4	35
14	Biosensor based on lectin and lipid membranes for detection of serum glycoproteins in infected patients with dengue. <i>Chemistry and Physics of Lipids</i> , 2014, 180, 7-14.	3.2	34
15	Impedimetric immunoassay for aflatoxin B1 using a cysteine modified gold electrode with covalently immobilized carbon nanotubes. <i>Mikrochimica Acta</i> , 2017, 184, 3205-3213.	5.0	34
16	Biosensor based on hybrid nanocomposite and CramoLL lectin for detection of dengue glycoproteins in real samples. <i>Synthetic Metals</i> , 2014, 194, 102-108.	3.9	33
17	Impedimetric sensor of bacterial toxins based on mixed (Concanavalin A)/polyaniline films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 117, 549-554.	5.0	32
18	Biosensing breast cancer cells based on a three-dimensional TiO ₂ nanomembrane transducer. <i>Biosensors and Bioelectronics</i> , 2017, 92, 313-320.	10.1	31

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19	Clavanin A-bioconjugated Fe ₃ O ₄ /Silane core-shell nanoparticles for thermal ablation of bacterial biofilms. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 72-81.	5.0	30
20	A novel approach to classify serum glycoproteins from patients infected by dengue using electrochemical impedance spectroscopy analysis. <i>Synthetic Metals</i> , 2009, 159, 2162-2164.	3.9	25
21	Attomolar electrochemical detection of the BCR/ABL fusion gene based on an amplifying self-signal metal nanoparticle-conducting polymer hybrid composite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 576-584.	5.0	25
22	Flexible sensor based on conducting polymer and gold nanoparticles for electrochemical screening of HPV families in cervical specimens. <i>Talanta</i> , 2021, 226, 122118.	5.5	25
23	Nanostructured electrochemical immunosensor for detection of serological alkaline phosphatase. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 413-418.	5.0	24
24	Optical and dielectric sensors based on antimicrobial peptides for microorganism diagnosis. <i>Frontiers in Microbiology</i> , 2014, 5, 443.	3.5	23
25	Evaluation of Magainin I interactions with lipid membranes: An optical and electrochemical study. <i>Chemistry and Physics of Lipids</i> , 2012, 165, 537-544.	3.2	22
26	Impedimetric immunosensor for electronegative low density lipoprotein (LDL ⁻) based on monoclonal antibody adsorbed on (polyvinyl formal)â€”gold nanoparticles matrix. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 775-781.	7.8	21
27	Metal-polymer hybrid nanomaterial for impedimetric detection of human papillomavirus in cervical specimens. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 185, 113249.	2.8	21
28	Dielectric study of the adhesion of mesenchymal stem cells from human umbilical cord on a sugarcane biopolymer. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 229-237.	3.6	18
29	Lectin-based impedimetric biosensor for differentiation of pathogenic candida species. <i>Talanta</i> , 2020, 220, 121375.	5.5	18
30	Label-free nanostructured biosensor for Schistosoma mansoni detection in complex biological fluids. <i>Talanta</i> , 2019, 204, 395-401.	5.5	17
31	A simple nanostructured impedimetric biosensor based on clavanin a peptide for bacterial detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3267-3274.	7.8	15
32	Electrochemical biosensor based on Temporin-PTA peptide for detection of microorganisms. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 216, 114788.	2.8	15
33	Development of impedimetric and optical calcium biosensor by using modified gold electrode with porcine S100A12 protein. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 365-370.	5.0	14
34	Impedimetric sensor for <i>Leishmania infantum</i> genome based on gold nanoparticles dispersed in polyaniline matrix. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2810-2816.	3.2	14
35	Titanium dioxide nanotubes functionalized with Cratylia mollis seed lectin, Cramoll, enhanced osteoblast-like cells adhesion and proliferation. <i>Materials Science and Engineering C</i> , 2018, 90, 664-672.	7.3	13
36	Smart applications of bionanosensors for BCR/ABL fusion gene detection in leukemia. <i>Journal of King Saud University - Science</i> , 2017, 29, 413-423.	3.5	12

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37	Electrochemical detection of gram-negative bacteria through mastoparan-capped magnetic nanoparticle. <i>Enzyme and Microbial Technology</i> , 2022, 160, 110088.	3.2	12
38	Mechanistic Aspects of Peptide-Membrane Interactions Determined by Optical, Dielectric and Piezoelectric Techniques: An Overview. <i>Current Protein and Peptide Science</i> , 2013, 14, 543-555.	1.4	11
39	Impedimetric sensor for toxigenic <i>Penicillium sclerotigenum</i> detection in yam based on magnetite-poly(allylamine hydrochloride) composite. <i>Journal of Colloid and Interface Science</i> , 2013, 396, 258-263.	9.4	10
40	Elucidation of mechanisms of interaction of a multifunctional peptide Pa-MAP with lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2899-2909.	2.6	10
41	Impedimetric nanostructured genosensor for detection of schistosomiasis in cerebrospinal fluid and serum samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 137, 163-169.	2.8	10
42	IMPEDIMETRIC CLAVMO PEPTIDE-BASED SENSOR DIFFERENTIATES PLOIDY OF CANDIDA SPECIES. <i>Biochemical Engineering Journal</i> , 2021, 167, 107918.	3.6	10
43	Electrochemical DNA biosensor for chronic myelocytic leukemia based on hybrid nanostructure. <i>Bioelectrochemistry</i> , 2022, 147, 108176.	4.6	9
44	Interfacial characterization of the molecular interactions in mixed monolayers of coumarin and phospholipids. <i>Journal of King Saud University - Science</i> , 2019, 31, 452-459.	3.5	8
45	Concanavalin A differentiates gram-positive bacteria through hierarchized nanostructured transducer. <i>Microbiological Research</i> , 2021, 251, 126834.	5.3	8
46	Protein unfolding studied by fluorescence methods and electrical impedance spectroscopy: The cases of <i>Cratylia mollis</i> and Concanavalin A. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 100-107.	5.0	6
47	Electrochemical platform for anti-cardiolipin antibody detection in human syphilitic serum. <i>Current Research in Biotechnology</i> , 2022, 4, 58-65.	3.7	6
48	Impedimetric genosensor based on graphene nanoribbons for detection and identification of oncogenic types of human papillomavirus. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1496-1503.	3.2	5
49	Simple and Fast Picomolar Detection of Ochratoxin A Using a Reusable Label Free Aptasensor Built with a Layer-by-Layer Procedure. <i>Electroanalysis</i> , 2017, 29, 2268-2275.	2.9	4
50	Comparison of the interfacial properties of <i>Eugenia uniflora</i> and <i>Triticum vulgare</i> lectins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 68, 7-12.	5.0	3
51	Real-time monitoring of amyloid fibrillation by electrical impedance spectroscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 724-731.	5.0	3
52	Impedimetric sensing platform for human papillomavirus and p53 tumor suppressor gene in cervical samples. <i>Journal of Science: Advanced Materials and Devices</i> , 2022, 7, 100411.	3.1	2