Paulo Augusto Raymundo Pereira

List of Publications by Year
in descending order

44 papers	1,586 citations	218592 26 h-index	302012 39 g-index
45 all docs	45 docs citations	45 times ranked	1559 citing authors

#	Article	IF	Citations
1	Nanostructured carbon black for simultaneous sensing in biological fluids. Sensors and Actuators B: Chemical, 2016, 227, 610-618.	4.0	95
2	Electrochemical biosensor made with tyrosinase immobilized in a matrix of nanodiamonds and potato starch for detecting phenolic compounds. Analytica Chimica Acta, 2018, 1034, 137-143.	2.6	77
3	Microbial nanocellulose adherent to human skin used in electrochemical sensors to detect metal ions and biomarkers in sweat. Talanta, 2020, 218, 121153.	2.9	76
4	Selective and sensitive multiplexed detection of pesticides in food samples using wearable, flexible glove-embedded non-enzymatic sensors. Chemical Engineering Journal, 2021, 408, 127279.	6.6	73
5	Solâ€“gel thin-film based mesoporous silica and carbon nanotubes for the determination of dopamine, uric acid and paracetamol in urine. Talanta, 2013, 116, 726-735.	2.9	71
6	A Nanostructured Bifunctional platform for Sensing of Glucose Biomarker in Artificial Saliva: Synergy in hybrid Pt/Au surfaces. Biosensors and Bioelectronics, 2016, 86, 369-376.	5.3	62
7	Biomimetic electrochemical sensors: New horizons and challenges in biosensing applications. Biosensors and Bioelectronics, 2021, 185, 113242.	5.3	62
8	Adsorption according to the Langmuirâ€“Freundlich model is the detection mechanism of the antigen p53 for early diagnosis of cancer. Physical Chemistry Chemical Physics, 2016, 18, 8412-8418.	1.3	57
9	Simultaneous, ultrasensitive detection of hydroquinone, paracetamol and estradiol for quality control of tap water with a simple electrochemical method. Journal of Electroanalytical Chemistry, 2019, 848, 113319.	1.9	54
10	Printex 6L Carbon Nanoballs used in Electrochemical Sensors for Simultaneous Detection of Emerging Pollutants Hydroquinone and Paracetamol. Sensors and Actuators B: Chemical, 2017, 252, 165-174.	4.0	54
11	Wearable sensors made with solution-blow spinning poly(lactic acid) for non-enzymatic pesticide detection in agriculture and food safety. Biosensors and Bioelectronics, 2022, 199, 113875.	5.3	47
12	Sensitive detection of estriol hormone in creek water using a sensor platform based on carbon black and silver nanoparticles. Talanta, 2017, 174, 652-659.	2.9	46
13	Size Control of Carbon Spherical Shells for Sensitive Detection of Paracetamol in Sweat, Saliva, and Urine. ACS Applied Nano Materials, 2018, 1, 654-661.	2.4	44
14	Ultralow Cost Electrochemical Sensor Made of Potato Starch and Carbon Black Nanoballs to Detect Tetracycline in Waters and Milk. Electroanalysis, 2018, 30, 2153-2159.	1.5	42
15	Wearable glove-embedded sensors for therapeutic drug monitoring in sweat for personalized medicine. Chemical Engineering Journal, 2022, 435, 135047.	6.6	42
16	Polyphenol oxidase-based electrochemical biosensors: A review. Analytica Chimica Acta, 2020, 1139, 198-221.	2.6	40
17	Use of zein microspheres to anchor carbon black and hemoglobin in electrochemical biosensors to detect hydrogen peroxide in cosmetic products, food and biological fluids. Talanta, 2019, 194, 737-744.	2.9	39
18	Electrochemical immunosensors using electrodeposited gold nanostructures for detecting the S proteins from SARS-CoV and SARS-CoV-2. Analytical and Bioanalytical Chemistry, 2022, 414, 5507-5517.	1.9	38

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19	An electrochemical furosemide sensor based on pencil graphite surface modified with polymer film Ni-salen and Ni(OH)2/C nanoparticles. Sensors and Actuators B: Chemical, 2018, 276, 378-387.	4.0	35
20	Short terms effects of air pollution from biomass burning in mucociliary clearance of Brazilian sugarcane cutters. Respiratory Medicine, 2011, 105, 1766-1768.	1.3	33
21	Electrochemical sensor for ranitidine determination based on carbon paste electrode modified with oxovanadium (IV) salen complex. Materials Science and Engineering C, 2013, 33, 4081-4085.	3.8	33
22	Synergy between Printex nano-carbons and silver nanoparticles for sensitive estimation of antioxidant activity. Analytica Chimica Acta, 2016, 926, 88-98.	2.6	31
23	Flexible Carbon Electrodes for Electrochemical Detection of Bisphenol-A, Hydroquinone and Catechol in Water Samples. Chemosensors, 2020, 8, 103.	1.8	31
24	Pen sensor made with silver nanoparticles decorating graphite-polyurethane electrodes to detect bisphenol-A in tap and river water samples. Materials Science and Engineering C, 2020, 114, 110989.	3.8	31
25	Direct Synthesis of Ag Nanoparticles Incorporated on a Mesoporous Hybrid Material as a Sensitive Sensor for the Simultaneous Determination of Dihydroxybenzenes Isomers. European Journal of Inorganic Chemistry, 2013, 2013, 5746-5754.	1.0	30
26	Genosensor made with a self-assembled monolayer matrix to detect MGMT gene methylation in head and neck cancer cell lines. Talanta, 2020, 210, 120609.	2.9	28
27	Sensitive determination of the endocrine disruptor bisphenol A at ultrathin film based on nanostructured hybrid material SiO2/GO/AgNP. Journal of Solid State Electrochemistry, 2016, 20, 2503-2507.	1.2	26
28	Detection of a SARS-CoV-2 sequence with genosensors using data analysis based on information visualization and machine learning techniques. Materials Chemistry Frontiers, 2021, 5, 5658-5670.	3.2	26
29	Electrochemical investigation of the dimeric oxo-bridged ruthenium complex in aqueous solution and its incorporation within a cation-exchange polymeric film on the electrode surface for electrocatalytic activity of hydrogen peroxide oxidation. Electrochimica Acta, 2011, 56, 6804-6811.	2.6	24
30	Simultaneous Detection of Quercetin and Carbendazim in Wine Samples Using Disposable Electrochemical Sensors. ChemElectroChem, 2020, 7, 3074-3081.	1.7	24
31	Carbon spherical shells in a flexible photoelectrochemical sensor to determine hydroquinone in tap water. Journal of Environmental Chemical Engineering, 2022, 10, 107556.	3.3	22
32	Influence of the Molecular Orientation and Ionization of Self-Assembled Monolayers in Biosensors: Application to Genosensors of Prostate Cancer Antigen 3. Journal of Physical Chemistry C, 2021, 125, 498-506.	1.5	21
33	The use of dihexadecylphosphate in sensing and biosensing. Sensors and Actuators B: Chemical, 2015, 220, 805-813.	4.0	20
34	Study on the structural and electrocatalytic properties of Ba²⁺- and Eu³⁺-doped silica xerogels as sensory platforms. RSC Advances, 2016, 6, 104529-104536.	1.7	19
35	A nanostructured label-free platform based on an ultrathin film for ultrasensitive detection of a secosteroid hormone. RSC Advances, 2016, 6, 34458-34467.	1.7	18
36	Thin Films and Composites Based on Graphene for Electrochemical Detection of Biologicallyâ€relevant Molecules. Electroanalysis, 2018, 30, 1888-1896.	1.5	18

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37	Enzymatic biofuel cells based on protective hydrophobic carbon paste electrodes: towards epidermal bioenergy harvesting in the acidic sweat environment. Chemical Communications, 2020, 56, 2004-2007.	2.2	18
38	Updating the use of nano-biosensors as promising devices for the diagnosis of coronavirus family members: A systematic review. Journal of Pharmaceutical and Biomedical Analysis, 2022, 211, 114608.	1.4	18
39	Flexible and integrated dual carbon sensor for multiplexed detection of nonylphenol and paroxetine in tap water samples. Mikrochimica Acta, 2021, 188, 359.	2.5	17
40	Low-cost bacterial nanocellulose-based interdigitated biosensor to detect the p53 cancer biomarker. Materials Science and Engineering C, 2022, 134, 112676.	3.8	15
41	Electrochemical evaluation of the a carbon-paste electrode modified with spinel manganese(IV) oxide under flow conditions for amperometric determination of lithium. Electrochimica Acta, 2011, 56, 2552-2558.	2.6	11
42	A Simple and Rapid Estimation of Totals Polyphenols Based On Carbon Paste Electrode Modified with Ruthenium Oxoâ€Complex. Electroanalysis, 2015, 27, 2371-2376.	1.5	8
43	Evaluation of the Oxo-bridged Dinuclear Ruthenium Ammine Complex as Redox Mediator in an Electrochemical Biosensor. Electroanalysis, 2016, 28, 562-569.	1.5	6
44	Nanoarchitectonics in Microfluidic Devices for Sensing and Biosensing. , 2019, , 231-252.		4