

Maria Teresa Seabra dos Reis Gomes

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75
papers

841
citations

17
h-index

23
g-index

82
ext. papers

968
ext. citations

6.4
avg, IF

4.09
L-index

#	Paper	IF	Citations
75	New porphyrin derivatives for phosphate anion sensing in both organic and aqueous media. <i>Chemical Communications</i> , 2014 , 50, 1359-61	5.8	54
74	Thin-film electrochemical sensor for diphenylamine detection using molecularly imprinted polymers. <i>Analytica Chimica Acta</i> , 2014 , 809, 141-7	6.6	45
73	The quantification of potassium using a quartz crystal microbalance. <i>Analyst, The</i> , 2000 , 125, 1983-6	5	45
72	Lignin-based polyurethane doped with carbon nanotubes for sensor applications. <i>Polymer International</i> , 2012 , 61, 788-794	3.3	38
71	Leaching of aluminium from cooking pans and food containers. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 192-197	8.5	34
70	Electrochemical impedance study of the lignin-derived conducting polymer. <i>Electrochimica Acta</i> , 2012 , 76, 69-76	6.7	30
69	Determination of 5-hydroxymethylfurfural in honey, using headspace-solid-phase microextraction coupled with a polyoxometalate-coated piezoelectric quartz crystal. <i>Food Chemistry</i> , 2017 , 220, 420-426	8.5	26
68	Quantification of CO ₂ , SO ₂ , NH ₃ , and H ₂ S with a single coated piezoelectric quartz crystal. <i>Sensors and Actuators B: Chemical</i> , 2000 , 68, 218-222	8.5	25
67	Potentiometric chemical sensors from lignin-poly(propylene oxide) copolymers doped by carbon nanotubes. <i>Analyst, The</i> , 2013 , 138, 501-8	5	23
66	An electronic nose based on coated piezoelectric quartz crystals to certify ewes\cheese and to discriminate between cheese varieties. <i>Sensors</i> , 2012 , 12, 1422-36	3.8	19
65	Detection of CO ₂ using a quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 1995 , 26, 191-194	5	19
64	Assessment on the use of biodiesel in cold weather: Pour point determination using a piezoelectric quartz crystal. <i>Fuel</i> , 2011 , 90, 2315-2320	7.1	18
63	Aluminium migration into beverages: are dented cans safe?. <i>Science of the Total Environment</i> , 2008 , 405, 385-8	10.2	18
62	Design of molecularly imprinted polymers for diphenylamine sensing. <i>Talanta</i> , 2012 , 94, 133-9	6.2	17
61	Following HPMC gelation with a piezoelectric quartz crystal. <i>Carbohydrate Polymers</i> , 2010 , 82, 363-369	10.3	17
60	Development of an electronic nose to identify and quantify volatile hazardous compounds. <i>Talanta</i> , 2008 , 77, 77-83	6.2	17
59	Detection of volatile amines using a quartz crystal with gold electrodes. <i>Sensors and Actuators B: Chemical</i> , 1999 , 57, 261-267	8.5	17

58	A new formaldehyde optical sensor: Detecting milk adulteration. <i>Food Chemistry</i> , 2020 , 318, 126461	8.5	16
57	Determination of the total hardness in tap water using acoustic wave sensors. <i>Sensors and Actuators B: Chemical</i> , 2007 , 127, 102-106	8.5	15
56	Determination of sulfur dioxide in wine using a quartz crystal microbalance. <i>Analytical Chemistry</i> , 1996 , 68, 1561-4	7.8	15
55	The quality of our drinking water: aluminium determination with an acoustic wave sensor. <i>Analytica Chimica Acta</i> , 2008 , 617, 162-6	6.6	14
54	Comparison of two methods for coating piezoelectric crystals. <i>Analytica Chimica Acta</i> , 1995 , 300, 329-334	6.6	14
53	A new analytical system, based on an acoustic wave sensor, for halitosis evaluation. <i>Sensors and Actuators B: Chemical</i> , 2009 , 136, 73-79	8.5	13
52	Assessment of copper toxicity using an acoustic wave sensor. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 1203-8	11.8	13
51	Performance of a tetramethylammonium fluoride tetrahydrate coated piezoelectric crystal for carbon dioxide detection. <i>Analytica Chimica Acta</i> , 1996 , 335, 235-238	6.6	13
50	Determination of paralytic shellfish toxins using potentiometric electronic tongue. <i>Sensors and Actuators B: Chemical</i> , 2018 , 263, 550-556	8.5	12
49	[28]Hexaphyrin derivatives for anion recognition in organic and aqueous media. <i>Chemical Communications</i> , 2016 , 52, 2181-4	5.8	12
48	An acoustic wave sensor for the hydrophilic fluoride. <i>Sensors and Actuators B: Chemical</i> , 2011 , 157, 594-599	5.8	12
47	Application of piezoelectric quartz crystals to the analysis of trace metals in solution: a review. <i>IEEE Sensors Journal</i> , 2001 , 1, 109	4	12
46	Cheeses Made from Raw and Pasteurized Cow's Milk Analysed by an Electronic Nose and an Electronic Tongue. <i>Sensors</i> , 2018 , 18,	3.8	11
45	N-Confused Porphyrin Immobilized on Solid Supports: Synthesis and Metal Ions Sensing Efficacy. <i>Molecules</i> , 2018 , 23,	4.8	11
44	Quartz crystal microbalance with gold electrodes as a sensor for monitoring gas-phase adsorption/desorption of short chain alkylthiol and alkyl sulfides. <i>Analytical Communications</i> , 1998 , 35, 415-416		10
43	Suitability of PZT ceramics for mass sensors versus widespread used quartz crystals. <i>Sensors and Actuators B: Chemical</i> , 2003 , 95, 25-31	8.5	10
42	The quantification of sodium in mineral waters using a quartz crystal microbalance. <i>Talanta</i> , 2003 , 59, 247-52	6.2	10
41	Paralytic Shellfish Toxins (PST)-Transforming Enzymes: A Review. <i>Toxins</i> , 2020 , 12,	4.9	9

40	Detecting spoiled fruit in the house of the future. <i>Analytica Chimica Acta</i> , 2008 , 617, 171-6	6.6	9
39	Using acoustic wave sensors to follow milk coagulation and to separate the cheeses according to the milk origin. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 1121-1128	8.5	8
38	Potentiometric chemical sensors for the detection of paralytic shellfish toxins. <i>Talanta</i> , 2018 , 181, 380-384		8
37	The evaluation of copper contamination of food cooked in copper pans using a piezoelectric quartz crystal resonator. <i>Sensors and Actuators B: Chemical</i> , 2005 , 111-112, 587-591	8.5	8
36	A quartz crystal microbalance sensor for the determination of nitroaromatics in landfill gas. <i>Talanta</i> , 2000 , 51, 1149-53	6.2	8
35	Critical assessment of the parameters that affect the selection of coating compounds for piezoelectric quartz crystal microbalances. <i>Talanta</i> , 1999 , 48, 81-9	6.2	8
34	Pasting of maize and rice starch after high pressure processing: Studies based on an acoustic wave sensor. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 323-327	8.5	6
33	Following butter flavour deterioration with an acoustic wave sensor. <i>Talanta</i> , 2012 , 99, 904-8	6.2	6
32	Determination of cyanide in waste waters using a quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 1998 , 48, 383-386	8.5	6
31	Development of a sensor for calcium based on quartz crystal microbalance. <i>Fresenius Journal of Analytical Chemistry</i> , 2001 , 369, 616-9		6
30	The utilisation of a piezoelectric quartz crystal for measuring carbon dioxide in wine. <i>Analytica Chimica Acta</i> , 1996 , 327, 95-100	6.6	6
29	Iron migration from undamaged and dented juice tins. <i>Journal of the Science of Food and Agriculture</i> , 2016 , 96, 3042-6	4.3	6
28	Fluorescent optrode for proteins based on a diketopyrrolopyrrole derivative: Practical application to total protein determination in urine. <i>Optics and Laser Technology</i> , 2020 , 130, 106364	4.2	5
27	Quantifying acetaldehyde in cider using a Mn(III)-substituted polyoxotungstate coated acoustic wave sensor. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 2608-2613	8.5	5
26	A gas chromatography-quartz crystal microbalance for speciation of sulfur compounds in landfill gas. <i>Journal of Environmental Monitoring</i> , 2000 , 2, 277-9		5
25	Preparation of PZT discs for use in an acoustic wave sensor. <i>Ceramics International</i> , 2009 , 35, 617-622	5.1	4
24	Analytical advantages of monitoring a particular characteristic frequency in a thickness shear mode acoustic wave sensor. <i>Sensors and Actuators B: Chemical</i> , 2001 , 78, 331-336	8.5	4
23	Development of a methodology for the determination of carbon monoxide using a quartz crystal microbalance. <i>Analyst, The</i> , 1999 , 124, 1449-1453	5	4

22	Utilization of a Quartz Crystal Microbalance to Obtain AuHg Phase Diagrams. <i>Langmuir</i> , 1999 , 15, 8780-8782	4
21	A Carbamoylase-Based Bioassay for the Detection of Paralytic Shellfish Poisoning Toxins. <i>Sensors</i> , 2020 , 20,	3.8 3
20	Starch viscoelastic properties studied with an acoustic wave sensor. <i>Carbohydrate Polymers</i> , 2014 , 99, 68-73	10.3 3
19	Study of the influence of polymeric membrane composition on the sensitivity of acoustic wave sensors for metal analysis. <i>Sensors and Actuators B: Chemical</i> , 2010 , 150, 471-477	8.5 3
18	Optimisation of the experimental conditions of a new method, based on a quartz crystal microbalance, for the determination of cyanide. <i>Analyst, The</i> , 1997 , 122, 1139-41	5 3
17	Use of an acoustic wave sensor to follow lead absorption by porcine skin. <i>Sensors and Actuators B: Chemical</i> , 2008 , 128, 450-454	8.5 3
16	Alcohol determination using an acoustic wave sensor. <i>Fresenius Journal of Analytical Chemistry</i> , 2001 , 369, 613-5	3
15	Quantification of CO ₂ in wines with piezoelectric crystals coated with tetramethylammonium fluoride and comparison with other methods. <i>Analisis - European Journal of Analytical Chemistry</i> , 1998 , 26, 179-181	3
14	Electronic Nose in Dairy Products 2016 , 21-30	3
13	Development of a flow injection analytical system for short chain amide determination based on a tubular bioreactor and an ammonium sensor. <i>Analyst, The</i> , 2018 , 143, 3859-3866	5 2
12	Preserve Your Books through the Smell. <i>ACS Sensors</i> , 2019 , 4, 2915-2921	9.2 2
11	Assessment of Transition Metals Toxicity in Environmental Matrices Using Potentiometric Electrodes: Inorganic Mercury(II) in the Seawater as a Case Study. <i>Electroanalysis</i> , 2015 , 27, 1932-1938	3 2
10	Use of sensors in cheese manufacture and quality control 2014 ,	2
9	Contribution of compressional waves to the identification and quantification of a water contaminant. <i>Sensors and Actuators B: Chemical</i> , 2010 , 151, 21-25	8.5 2
8	Molecularly Imprinted Polymer Thin-Film Electrochemical Sensors. <i>Methods in Molecular Biology</i> , 2019 , 2027, 151-161	1.4 2
7	Analysing sulphate and chloride in mineral drinking water by flow injection analysis with a single acoustic wave sensor. <i>Talanta</i> , 2018 , 189, 65-70	6.2 2
6	An insight into the adsorption and electrochemical processes occurring during the analysis of copper and lead in wines, using an electrochemical quartz crystal nanobalance. <i>Talanta</i> , 2012 , 98, 14-8	6.2 1
5	Polyoxometalate Functionalized Sensors: A Review.. <i>Frontiers in Chemistry</i> , 2022 , 10, 840657	5 1

- 4 Effect of High Pressure in Starch Viscoelastic Properties Studied with an Acoustic Wave Sensor. *Procedia Engineering*, **2014**, 87, 216-219
- 3 A Flow Injection Methodology for Acetamide Determination Using a Tubular Bioreactor and an Ammonium Sensor. *Proceedings (mdpi)*, **2017**, 1, 785 0.3
- 2 An Expeditious Experiment To Determine the Faraday Constant. *Journal of Chemical Education*, **2004**, 81, 116 2.4
- 1 Comparison of two methods for the optimization of the analytical conditions for the determination of total sulfur. *Talanta*, **1999**, 49, 207-13 6.2