

# Maria Teresa Seabra dos Reis Gomes

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

1,133  
citations

361296

20  
h-index

477173

29  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thin-film electrochemical sensor for diphenylamine detection using molecularly imprinted polymers. <i>Analytica Chimica Acta</i> , 2014, 809, 141-147.	2.6	60
2	New porphyrin derivatives for phosphate anion sensing in both organic and aqueous media. <i>Chemical Communications</i> , 2014, 50, 1359-1361.	2.2	58
3	The quantification of potassium using a quartz crystal microbalance. <i>Analyst, The</i> , 2000, 125, 1983-1986.	1.7	50
4	Leaching of aluminium from cooking pans and food containers. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 192-197.	4.0	47
5	Lignin-based polyurethane doped with carbon nanotubes for sensor applications. <i>Polymer International</i> , 2012, 61, 788-794.	1.6	46
6	Electrochemical impedance study of the lignin-derived conducting polymer. <i>Electrochimica Acta</i> , 2012, 76, 69-76.	2.6	36
7	Paralytic Shellfish Toxins (PST)-Transforming Enzymes: A Review. <i>Toxins</i> , 2020, 12, 344.	1.5	36
8	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.	4.2	34
9	A new formaldehyde optical sensor: Detecting milk adulteration. <i>Food Chemistry</i> , 2020, 318, 126461.	4.2	34
10	Quantification of CO <sub>2</sub> , SO <sub>2</sub> , NH <sub>3</sub> , and H <sub>2</sub> S with a single coated piezoelectric quartz crystal. <i>Sensors and Actuators B: Chemical</i> , 2000, 68, 218-222.	4.0	30
11	Polyoxometalate Functionalized Sensors: A Review. <i>Frontiers in Chemistry</i> , 2022, 10, 840657.	1.8	28
12	Detection of CO <sub>2</sub> using a quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 1995, 26, 191-194.	4.0	27
13	Detection of volatile amines using a quartz crystal with gold electrodes. <i>Sensors and Actuators B: Chemical</i> , 1999, 57, 261-267.	4.0	27
14	Potentiometric chemical sensors from lignin-poly(propylene oxide) copolymers doped by carbon nanotubes. <i>Analyst, The</i> , 2013, 138, 501-508.	1.7	25
15	Assessment on the use of biodiesel in cold weather: Pour point determination using a piezoelectric quartz crystal. <i>Fuel</i> , 2011, 90, 2315-2320.	3.4	24
16	Aluminium migration into beverages: Are dented cans safe?. <i>Science of the Total Environment</i> , 2008, 405, 385-388.	3.9	22
17	An Electronic Nose Based on Coated Piezoelectric Quartz Crystals to Certify Ewes'™ Cheese and to Discriminate between Cheese Varieties. <i>Sensors</i> , 2012, 12, 1422-1436.	2.1	22
18	Design of molecularly imprinted polymers for diphenylamine sensing. <i>Talanta</i> , 2012, 94, 133-139.	2.9	21

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19	Cheeses Made from Raw and Pasteurized Cow's Milk Analysed by an Electronic Nose and an Electronic Tongue. <i>Sensors</i> , 2018, 18, 2415.	2.1	21
20	Determination of Sulfur Dioxide in Wine Using a Quartz Crystal Microbalance. <i>Analytical Chemistry</i> , 1996, 68, 1561-1564.	3.2	20
21	Development of an electronic nose to identify and quantify volatile hazardous compounds. <i>Talanta</i> , 2008, 77, 77-83.	2.9	20
22	A new analytical system, based on an acoustic wave sensor, for halitosis evaluation. <i>Sensors and Actuators B: Chemical</i> , 2009, 136, 73-79.	4.0	20
23	Comparison of two methods for coating piezoelectric crystals. <i>Analytica Chimica Acta</i> , 1995, 300, 329-334.	2.6	19
24	Determination of the total hardness in tap water using acoustic wave sensors. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 102-106.	4.0	19
25	Performance of a tetramethylammonium fluoride tetrahydrate coated piezoelectric crystal for carbon dioxide detection. <i>Analytica Chimica Acta</i> , 1996, 335, 235-238.	2.6	18
26	Following HPMC gelation with a piezoelectric quartz crystal. <i>Carbohydrate Polymers</i> , 2010, 82, 363-369.	5.1	17
27	Determination of paralytic shellfish toxins using potentiometric electronic tongue. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 550-556.	4.0	16
28	Application of piezoelectric quartz crystals to the analysis of trace metals in solution: a review. <i>IEEE Sensors Journal</i> , 2001, 1, 109.	2.4	15
29	[28]Hexaphyrin derivatives for anion recognition in organic and aqueous media. <i>Chemical Communications</i> , 2016, 52, 2181-2184.	2.2	15
30	N-Confused Porphyrin Immobilized on Solid Supports: Synthesis and Metal Ions Sensing Efficacy. <i>Molecules</i> , 2018, 23, 867.	1.7	15
31	Assessment of copper toxicity using an acoustic wave sensor. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1203-1208.	5.3	14
32	The quality of our drinking water: Aluminium determination with an acoustic wave sensor. <i>Analytica Chimica Acta</i> , 2008, 617, 162-166.	2.6	14
33	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.	2.2	13
34	Suitability of PZT ceramics for mass sensors versus widespread used quartz crystals. <i>Sensors and Actuators B: Chemical</i> , 2003, 95, 25-31.	4.0	13
35	An acoustic wave sensor for the hydrophilic fluoride. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 594-599.	4.0	12
36	The quantification of sodium in mineral waters using a quartz crystal microbalance. <i>Talanta</i> , 2003, 59, 247-252.	2.9	11

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37	Critical assessment of the parameters that affect the selection of coating compounds for piezoelectric quartz crystal microbalances. <i>Talanta</i> , 1999, 48, 81-89.	2.9	10
38	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.	4.0	10
39	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.	4.0	10
40	A Carbamoylase-Based Bioassay for the Detection of Paralytic Shellfish Poisoning Toxins. <i>Sensors</i> , 2020, 20, 507.	2.1	10
41	Detecting spoiled fruit in the house of the future. <i>Analytica Chimica Acta</i> , 2008, 617, 171-176.	2.6	9
42	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.	4.0	9
43	Potentiometric chemical sensors for the detection of paralytic shellfish toxins. <i>Talanta</i> , 2018, 181, 380-384.	2.9	9
44	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.	4.0	9
45	The utilisation of a piezoelectric quartz crystal for measuring carbon dioxide in wine. <i>Analytica Chimica Acta</i> , 1996, 327, 95-100.	2.6	8
46	A quartz crystal microbalance sensor for the determination of nitroaromatics in landfill gas. <i>Talanta</i> , 2000, 51, 1149-1153.	2.9	8
47	Development of a sensor for calcium based on quartz crystal microbalance. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 369, 616-619.	1.5	8
48	Electronic Nose in Dairy Products. , 2016, , 21-30.		8
49	Iron migration from undamaged and dented juice tinplate cans. <i>Journal of the Science of Food and Agriculture</i> , 2016, 96, 3042-3046.	1.7	8
50	Determination of cyanide in waste waters using a quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 1998, 48, 383-386.	4.0	7
51	Preserve Your Books through the Smell. <i>ACS Sensors</i> , 2019, 4, 2915-2921.	4.0	7
52	Development of a methodology for the determination of carbon monoxide using a quartz crystal microbalance. <i>Analyst, The</i> , 1999, 124, 1449-1453.	1.7	6
53	Following butter flavour deterioration with an acoustic wave sensor. <i>Talanta</i> , 2012, 99, 904-908.	2.9	6
54	Utilization of a Quartz Crystal Microbalance to Obtain Au <sup>+</sup> Hg Phase Diagrams. <i>Langmuir</i> , 1999, 15, 8780-8782.	1.6	5

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55	A gas chromatography-quartz crystal microbalance for speciation of sulfur compounds in landfill gas. <i>Journal of Environmental Monitoring</i> , 2000, 2, 277-279.	2.1	5
56	Preparation of PZT discs for use in an acoustic wave sensor. <i>Ceramics International</i> , 2009, 35, 617-622.	2.3	5
57	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.	4.0	5
58	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.	2.2	5
59	Molecularly Imprinted Polymer Thin-Film Electrochemical Sensors. <i>Methods in Molecular Biology</i> , 2019, 2027, 151-161.	0.4	5
60	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, 1139-1142.	1.7	4
61	Alcohol determination using an acoustic wave sensor. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 369, 613-615.	1.5	4
62	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.	4.0	4
63	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.	2.9	4
64	Quantification of CO <sub>2</sub> 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.	0.4	4
65	A New Analytical Method to Quantify Ammonia in Freshwater with a Bulk Acoustic Wave Sensor. <i>Sensors</i> , 2022, 22, 1528.	2.1	4
66	Use of an acoustic wave sensor to follow lead absorption by porcine skin. <i>Sensors and Actuators B: Chemical</i> , 2008, 128, 450-454.	4.0	3
67	Starch viscoelastic properties studied with an acoustic wave sensor. <i>Carbohydrate Polymers</i> , 2014, 99, 68-73.	5.1	3
68	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.	1.7	3
69	Contribution of compressional waves to the identification and quantification of a water contaminant. <i>Sensors and Actuators B: Chemical</i> , 2010, 151, 21-25.	4.0	2
70	Use of sensors in cheese manufacture and quality control. , 2014, , .		2
71	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.	1.5	2
72	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, 14-18.	2.9	1

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73	Bulk Acoustic Wave Sensors in Chemical Analysis. , 2004, , 421-445.		1
74	Notice of Removal: Impedimetric Electronic Tongue for the Detection of Marine Toxins. , 2022, , .		1
75	Comparison of two methods for the optimization of the analytical conditions for the determination of total sulfur. Talanta, 1999, 49, 207-213.	2.9	0
76	An Expeditious Experiment To Determine the Faraday Constant. Journal of Chemical Education, 2004, 81, 116.	1.1	0
77	Adsorption studies with environmental significance using an acoustic wave sensor. , 0, , .		0
78	First Characterization of a Biosensor for Large DNA Molecules using Quartz Crystal Microbalance and Impedance Spectroscopy. , 2007, , .		0
79	Effect of High Pressure in Starch Viscoelastic Properties Studied with an Acoustic Wave Sensor. Procedia Engineering, 2014, 87, 216-219.	1.2	0
80	Ammonium sensing in aqueous solutions with plastic optical fiber modified by molecular imprinting. Proceedings of SPIE, 2016, , .	0.8	0
81	Determination of paralytic shellfish toxins using potentiometric electronic tongue. , 2017, , .		0
82	A Flow Injection Methodology for Acetamide Determination Using a Tubular Bioreactor and an Ammonium Sensor. Proceedings (mdpi), 2017, 1, 785.	0.2	0