

# Maria Teresa Seabra dos Reis Gomes

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Polyoxometalate Functionalized Sensors: A Review.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 840657	5	1
74	Fluorescent optrode for proteins based on a diketopyrrolopyrrole derivative: Practical application to total protein determination in urine. <i>Optics and Laser Technology</i> , <b>2020</b> , 130, 106364	4.2	5
73	Paralytic Shellfish Toxins (PST)-Transforming Enzymes: A Review. <i>Toxins</i> , <b>2020</b> , 12,	4.9	9
72	A new formaldehyde optical sensor: Detecting milk adulteration. <i>Food Chemistry</i> , <b>2020</b> , 318, 126461	8.5	16
71	A Carbamoylase-Based Bioassay for the Detection of Paralytic Shellfish Poisoning Toxins. <i>Sensors</i> , <b>2020</b> , 20,	3.8	3
70	Preserve Your Books through the Smell. <i>ACS Sensors</i> , <b>2019</b> , 4, 2915-2921	9.2	2
69	Molecularly Imprinted Polymer Thin-Film Electrochemical Sensors. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2027, 151-161	1.4	2
68	Determination of paralytic shellfish toxins using potentiometric electronic tongue. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 263, 550-556	8.5	12
67	Potentiometric chemical sensors for the detection of paralytic shellfish toxins. <i>Talanta</i> , <b>2018</b> , 181, 380-384	8	8
66	Quantifying acetaldehyde in cider using a Mn(III)-substituted polyoxotungstate coated acoustic wave sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 2608-2613	8.5	5
65	Cheeses Made from Raw and Pasteurized Cow's Milk Analysed by an Electronic Nose and an Electronic Tongue. <i>Sensors</i> , <b>2018</b> , 18,	3.8	11
64	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> , <b>2018</b> , 143, 3859-3866	5	2
63	N-Confused Porphyrin Immobilized on Solid Supports: Synthesis and Metal Ions Sensing Efficacy. <i>Molecules</i> , <b>2018</b> , 23,	4.8	11
62	Analysing sulphate and chloride in mineral drinking water by flow injection analysis with a single acoustic wave sensor. <i>Talanta</i> , <b>2018</b> , 189, 65-70	6.2	2
61	Determination of 5-hydroxymethylfurfural in honey, using headspace-solid-phase microextraction coupled with a polyoxometalate-coated piezoelectric quartz crystal. <i>Food Chemistry</i> , <b>2017</b> , 220, 420-426	8.5	26
60	A Flow Injection Methodology for Acetamide Determination Using a Tubular Bioreactor and an Ammonium Sensor. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 785	0.3	
59	[28]Hexaphyrin derivatives for anion recognition in organic and aqueous media. <i>Chemical Communications</i> , <b>2016</b> , 52, 2181-4	5.8	12

58	Electronic Nose in Dairy Products <b>2016</b> , 21-30		3
57	Iron migration from undamaged and dented juice tinplate cans. <i>Journal of the Science of Food and Agriculture</i> , <b>2016</b> , 96, 3042-6	4.3	6
56	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> , <b>2015</b> , 207, 1121-1128	8.5	8
55	Pasting of maize and rice starch after high pressure processing: Studies based on an acoustic wave sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 209, 323-327	8.5	6
54	Assessment of Transition Metals Toxicity in Environmental Matrices Using Potentiometric Electrodes: Inorganic Mercury(II) in the Seawater as a Case Study. <i>Electroanalysis</i> , <b>2015</b> , 27, 1932-1938	3	2
53	Starch viscoelastic properties studied with an acoustic wave sensor. <i>Carbohydrate Polymers</i> , <b>2014</b> , 99, 68-73	10.3	3
52	New porphyrin derivatives for phosphate anion sensing in both organic and aqueous media. <i>Chemical Communications</i> , <b>2014</b> , 50, 1359-61	5.8	54
51	Thin-film electrochemical sensor for diphenylamine detection using molecularly imprinted polymers. <i>Analytica Chimica Acta</i> , <b>2014</b> , 809, 141-7	6.6	45
50	Effect of High Pressure in Starch Viscoelastic Properties Studied with an Acoustic Wave Sensor. <i>Procedia Engineering</i> , <b>2014</b> , 87, 216-219		
49	Use of sensors in cheese manufacture and quality control <b>2014</b> ,		2
48	Potentiometric chemical sensors from lignin-poly(propylene oxide) copolymers doped by carbon nanotubes. <i>Analyst, The</i> , <b>2013</b> , 138, 501-8	5	23
47	Electrochemical impedance study of the lignin-derived conducting polymer. <i>Electrochimica Acta</i> , <b>2012</b> , 76, 69-76	6.7	30
46	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> , <b>2012</b> , 98, 14-8	6.2	1
45	Design of molecularly imprinted polymers for diphenylamine sensing. <i>Talanta</i> , <b>2012</b> , 94, 133-9	6.2	17
44	Following butter flavour deterioration with an acoustic wave sensor. <i>Talanta</i> , <b>2012</b> , 99, 904-8	6.2	6
43	Lignin-based polyurethane doped with carbon nanotubes for sensor applications. <i>Polymer International</i> , <b>2012</b> , 61, 788-794	3.3	38
42	An electronic nose based on coated piezoelectric quartz crystals to certify ewes\cheese and to discriminate between cheese varieties. <i>Sensors</i> , <b>2012</b> , 12, 1422-36	3.8	19
41	Assessment on the use of biodiesel in cold weather: Pour point determination using a piezoelectric quartz crystal. <i>Fuel</i> , <b>2011</b> , 90, 2315-2320	7.1	18

40	An acoustic wave sensor for the hydrophilic fluoride. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 157, 594-599		12
39	Contribution of compressional waves to the identification and quantification of a water contaminant. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 151, 21-25	8.5	2
38	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> , <b>2010</b> , 150, 471-477	8.5	3
37	Following HPMC gelation with a piezoelectric quartz crystal. <i>Carbohydrate Polymers</i> , <b>2010</b> , 82, 363-369	10.3	17
36	A new analytical system, based on an acoustic wave sensor, for halitosis evaluation. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 136, 73-79	8.5	13
35	Preparation of PZT discs for use in an acoustic wave sensor. <i>Ceramics International</i> , <b>2009</b> , 35, 617-622	5.1	4
34	Aluminium migration into beverages: are dented cans safe?. <i>Science of the Total Environment</i> , <b>2008</b> , 405, 385-8	10.2	18
33	Development of an electronic nose to identify and quantify volatile hazardous compounds. <i>Talanta</i> , <b>2008</b> , 77, 77-83	6.2	17
32	The quality of our drinking water: aluminium determination with an acoustic wave sensor. <i>Analytica Chimica Acta</i> , <b>2008</b> , 617, 162-6	6.6	14
31	Use of an acoustic wave sensor to follow lead absorption by porcine skin. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 128, 450-454	8.5	3
30	Detecting spoiled fruit in the house of the future. <i>Analytica Chimica Acta</i> , <b>2008</b> , 617, 171-6	6.6	9
29	Determination of the total hardness in tap water using acoustic wave sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 127, 102-106	8.5	15
28	Leaching of aluminium from cooking pans and food containers. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 118, 192-197	8.5	34
27	The evaluation of copper contamination of food cooked in copper pans using a piezoelectric quartz crystal resonator. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 111-112, 587-591	8.5	8
26	Assessment of copper toxicity using an acoustic wave sensor. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 19, 1203-8	11.8	13
25	An Expeditious Experiment To Determine the Faraday Constant. <i>Journal of Chemical Education</i> , <b>2004</b> , 81, 116	2.4	
24	Suitability of PZT ceramics for mass sensors versus widespread used quartz crystals. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 95, 25-31	8.5	10
23	The quantification of sodium in mineral waters using a quartz crystal microbalance. <i>Talanta</i> , <b>2003</b> , 59, 247-52	6.2	10

22	Alcohol determination using an acoustic wave sensor. <i>Fresenius Journal of Analytical Chemistry</i> , <b>2001</b> , 369, 613-5		3
21	Development of a sensor for calcium based on quartz crystal microbalance. <i>Fresenius Journal of Analytical Chemistry</i> , <b>2001</b> , 369, 616-9		6
20	Analytical advantages of monitoring a particular characteristic frequency in a thickness shear mode acoustic wave sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 78, 331-336	8.5	4
19	Application of piezoelectric quartz crystals to the analysis of trace metals in solution: a review. <i>IEEE Sensors Journal</i> , <b>2001</b> , 1, 109	4	12
18	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> , <b>2000</b> , 68, 218-222	8.5	25
17	A quartz crystal microbalance sensor for the determination of nitroaromatics in landfill gas. <i>Talanta</i> , <b>2000</b> , 51, 1149-53	6.2	8
16	The quantification of potassium using a quartz crystal microbalance. <i>Analyst, The</i> , <b>2000</b> , 125, 1983-6	5	45
15	A gas chromatography-quartz crystal microbalance for speciation of sulfur compounds in landfill gas. <i>Journal of Environmental Monitoring</i> , <b>2000</b> , 2, 277-9		5
14	Detection of volatile amines using a quartz crystal with gold electrodes. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 57, 261-267	8.5	17
13	Development of a methodology for the determination of carbon monoxide using a quartz crystal microbalance. <i>Analyst, The</i> , <b>1999</b> , 124, 1449-1453	5	4
12	Critical assessment of the parameters that affect the selection of coating compounds for piezoelectric quartz crystal microbalances. <i>Talanta</i> , <b>1999</b> , 48, 81-9	6.2	8
11	Comparison of two methods for the optimization of the analytical conditions for the determination of total sulfur. <i>Talanta</i> , <b>1999</b> , 49, 207-13	6.2	
10	Utilization of a Quartz Crystal Microbalance to Obtain Au-Hg Phase Diagrams. <i>Langmuir</i> , <b>1999</b> , 15, 8780-8782		4
9	Determination of cyanide in waste waters using a quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , <b>1998</b> , 48, 383-386	8.5	6
8	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> , <b>1998</b> , 35, 415-416		10
7	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> , <b>1998</b> , 26, 179-181		3
6	Optimisation of the experimental conditions of a new method, based on a quartz crystal microbalance, for the determination of cyanide. <i>Analyst, The</i> , <b>1997</b> , 122, 1139-41	5	3
5	Determination of sulfur dioxide in wine using a quartz crystal microbalance. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 1561-4	7.8	15

4	The utilisation of a piezoelectric quartz crystal for measuring carbon dioxide in wine. <i>Analytica Chimica Acta</i> , <b>1996</b> , 327, 95-100	6.6	6
3	Performance of a tetramethylammonium fluoride tetrahydrate coated piezoelectric crystal for carbon dioxide detection. <i>Analytica Chimica Acta</i> , <b>1996</b> , 335, 235-238	6.6	13
2	Detection of CO <sub>2</sub> using a quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , <b>1995</b> , 26, 191-194	6.6	19
1	Comparison of two methods for coating piezoelectric crystals. <i>Analytica Chimica Acta</i> , <b>1995</b> , 300, 329-334	6.6	14