

Eduardo Garcia-Breijo

List of Publications by Year in descending order

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66
papers

1,574
citations

304743

22
h-index

315739

38
g-index

66
all docs

66
docs citations

66
times ranked

1708
citing authors

#	ARTICLE	IF	CITATIONS
1	An "electronic tongue" design for the qualitative analysis of natural waters. <i>Sensors and Actuators B: Chemical</i> , 2005, 104, 302-307.	7.8	128
2	Freshness monitoring of sea bream (<i>Sparus aurata</i>) with a potentiometric sensor. <i>Food Chemistry</i> , 2008, 108, 681-688.	8.2	86
3	A multisensor in thick-film technology for water quality control. <i>Sensors and Actuators A: Physical</i> , 2005, 120, 589-595.	4.1	85
4	Fish freshness analysis using metallic potentiometric electrodes. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 362-370.	7.8	79
5	Monitoring of physical "chemical and microbiological changes in fresh pork meat under cold storage by means of a potentiometric electronic tongue. <i>Food Chemistry</i> , 2011, 126, 1261-1268.	8.2	79
6	Multi-Channel Receptors and Their Relation to Guest Chemosensing and Reconfigurable Molecular Logic Gates. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 2393-2403.	2.0	72
7	A novel humid electronic nose combined with an electronic tongue for assessing deterioration of wine. <i>Sensors and Actuators A: Physical</i> , 2011, 171, 152-158.	4.1	70
8	Accurate concentration determination of anions nitrate, nitrite and chloride in minced meat using a voltammetric electronic tongue. <i>Sensors and Actuators B: Chemical</i> , 2010, 149, 71-78.	7.8	69
9	An electronic tongue for fish freshness analysis using a thick-film array of electrodes. <i>Mikrochimica Acta</i> , 2008, 163, 121-129.	5.0	67
10	Prediction of NaCl, nitrate and nitrite contents in minced meat by using a voltammetric electronic tongue and an impedimetric sensor. <i>Food Chemistry</i> , 2010, 122, 864-870.	8.2	56
11	Ditopic N-Crowned 4-(p-Aminophenyl)-2,6-diphenylpyridines: Implications of Macrocycle Topology on the Spectroscopic Properties, Cation Complexation, and Differential Anion Responses. <i>Inorganic Chemistry</i> , 2007, 46, 3123-3135.	4.0	48
12	New potentiometric dissolved oxygen sensors in thick film technology. <i>Sensors and Actuators B: Chemical</i> , 2004, 101, 295-301.	7.8	46
13	A comparison study of pattern recognition algorithms implemented on a microcontroller for use in an electronic tongue for monitoring drinking waters. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 570-582.	4.1	43
14	Low-Cost Capacitive Humidity Sensor for Application Within Flexible RFID Labels Based on Microcontroller Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012, 61, 545-553.	4.7	39
15	Characterization of embeddable potentiometric thick-film sensors for monitoring chloride penetration in concrete. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 407-418.	7.8	39
16	Glyphosate Detection by Means of a Voltammetric Electronic Tongue and Discrimination of Potential Interferents. <i>Sensors</i> , 2012, 12, 17553-17568.	3.8	29
17	An electronic nose for the detection of Sarin, Soman and Tabun mimics and interfering agents. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 31-37.	7.8	27
18	Textile Concentric Ring Electrodes for ECG Recording Based on Screen-Printing Technology. <i>Sensors</i> , 2018, 18, 300.	3.8	27

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19	Organic Electrochemical Transistors as an Emerging Platform for Bio-Sensing Applications: A Review. IEEE Sensors Journal, 2021, 21, 3977-4006.	4.7	27
20	TNT detection using a voltammetric electronic tongue based on neural networks. Sensors and Actuators A: Physical, 2013, 192, 1-8.	4.1	25
21	Artificial neural networks (Fuzzy ARTMAP) analysis of the data obtained with an electronic tongue applied to a ham-curing process with different salt formulations. Applied Soft Computing Journal, 2015, 30, 421-429.	7.2	24
22	A Wearable Textile 2D Touchpad Sensor Based on Screen-Printing Technology. Materials, 2017, 10, 1450.	2.9	23
23	A Wearable Textile 3D Gesture Recognition Sensor Based on Screen-Printing Technology. Sensors, 2019, 19, 5068.	3.8	20
24	An electrochemical characterization of thick-film electrodes based on RuO ₂ -containing resistive pastes. Journal of Electroanalytical Chemistry, 2007, 611, 175-180.	3.8	19
25	Glyphosate detection by voltammetric techniques. A comparison between statistical methods and an artificial neural network. Sensors and Actuators B: Chemical, 2012, 171-172, 528-536.	7.8	19
26	An Embedded Simplified Fuzzy ARTMAP Implemented on a Microcontroller for Food Classification. Sensors, 2013, 13, 10418-10429.	3.8	19
27	Screen-printed Organic Electrochemical Transistors for the detection of ascorbic acid in food. Organic Electronics, 2017, 45, 89-96.	2.6	19
28	Development of a puncture electronic device for electrical conductivity measurements throughout meat salting. Sensors and Actuators A: Physical, 2008, 148, 63-67.	4.1	18
29	Artificial neural network onto eight bit microcontroller for Secchi depth calculation. Sensors and Actuators B: Chemical, 2011, 156, 132-139.	7.8	18
30	Low-Cost Electronic Tongue System and Its Application to Explosive Detection. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 424-431.	4.7	18
31	A model for the assessment of interfering processes in Faradic electrodes. Sensors and Actuators A: Physical, 2008, 142, 56-60.	4.1	17
32	Integration of a 2D Touch Sensor with an Electroluminescent Display by Using a Screen-Printing Technology on Textile Substrate. Sensors, 2018, 18, 3313.	3.8	17
33	An investigation into the fabrication parameters of screen-printed capacitive sensors on e-textiles. Textile Research Journal, 2020, 90, 1749-1769.	2.2	17
34	An Electrochemical Impedance Spectroscopy-Based Technique to Identify and Quantify Fermentable Sugars in Pineapple Waste Valorization for Bioethanol Production. Sensors, 2015, 15, 22941-22955.	3.8	16
35	Electronic Tongue for Qualitative Analysis of Aqueous Solutions of Salts Using Thick-film Technology and Metal Electrodes. Sensors, 2006, 6, 1128-1138.	3.8	15
36	A humid electronic nose for the detection of nerve agent mimics; a case of selective sensing of DCNP (a Tabun mimic). Sensors and Actuators B: Chemical, 2014, 192, 134-142.	7.8	14

#	ARTICLE	IF	CITATIONS
37	A Flexible Multiring Concentric Electrode for Non-Invasive Identification of Intestinal Slow Waves. <i>Sensors</i> , 2018, 18, 396.	3.8	14
38	Introduction of a model for describing the redox potential in faradic electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2006, 594, 96-104.	3.8	13
39	An Ion-selective Electrode for Anion Perchlorate in Thick-film Technology. <i>Sensors</i> , 2006, 6, 480-491.	3.8	11
40	Characterization of Screen-Printed Organic Electrochemical Transistors to Detect Cations of Different Sizes. <i>Sensors</i> , 2016, 16, 1599.	3.8	11
41	A new method for manufacturing dry electrodes on textiles. Validation for wearable ECG monitoring. <i>Electrochemistry Communications</i> , 2022, 136, 107244.	4.7	11
42	A comparative analysis of printing techniques by using an active concentric ring electrode for bioelectrical recording. <i>Microelectronics International</i> , 2015, 32, 103-107.	0.6	9
43	A study of the importance of the cell geometry in non-Faradaic systems. A new definition of the cell constant for conductivity measurement. <i>Electrochimica Acta</i> , 2015, 153, 263-272.	5.2	9
44	Textile Concentric Ring Electrodes: Influence of Position and Electrode Size on Cardiac Activity Monitoring. <i>Journal of Sensors</i> , 2018, 2018, 1-9.	1.1	9
45	Development of potentiometric equipment for the identification of altered dry-cured hams: A preliminary study. <i>Meat Science</i> , 2015, 106, 1-5.	5.5	7
46	Colorimetric detection of hazardous gases using a remotely operated capturing and processing system. <i>ISA Transactions</i> , 2015, 59, 434-442.	5.7	7
47	A humid electronic nose based on pulse voltammetry: A proof-of-concept design. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 666-673.	7.8	5
48	Design of a low-cost equipment for optical hyperthermia. <i>Sensors and Actuators A: Physical</i> , 2017, 255, 61-70.	4.1	5
49	Analysis of Fish Freshness by Using Metallic Potentiometric Electrodes. , 2007, , .		4
50	Comparison of E-Textile Techniques and Materials for 3D Gesture Sensor with Boosted Electrode Design. <i>Sensors</i> , 2020, 20, 2369.	3.8	4
51	A potentiometric electronic tongue to monitor meat freshness. , 2010, , .		3
52	Classification of honeys of different floral origins by artificial neural networks. , 2011, , .		3
53	Flexible Concentric Ring Electrode for Non Invasive Bioelectrical Surface Recordings. <i>Procedia Engineering</i> , 2012, 47, 1223-1226.	1.2	2
54	Inexpensive Measuring System for the Characterization of Organic Transistors. <i>Journal of Sensors</i> , 2018, 2018, 1-9.	1.1	2

#	ARTICLE	IF	CITATIONS
55	Modeling and Performance Comparison of Screen-Printed, Impedance Spectroscopy Probes for Harsh Environments. IEEE Sensors Journal, 2020, 20, 2533-2542.	4.7	2
56	A preliminary study of printed electronics through flexography impression on flexible substrates. Industria Textila, 2021, 72, 133-137.	0.8	2
57	Influence of Structure and Composition of Woven Fabrics on the Conductivity of Flexography Printed Electronics. Polymers, 2021, 13, 3165.	4.5	2
58	Design and Implementation of an Electronic Nose System for the Determination of Fish Freshness. , 2009, , .		1
59	Embedded pattern recognition systems for liquids classification: A comparison study. , 2011, , .		1
60	Portable Measurement System for Voltammetry and Impedance Spectroscopy. Application for TNT Detection. Procedia Engineering, 2012, 47, 1129-1132.	1.2	1
61	Meat and Fish Spoilage Measured by Electronic Tongues. , 2016, , 199-207.		1
62	ASSESSING COMPETENCES: INNOVATION, CREATIVITY AND ENTREPRENEURSHIP. THE CASE OF THE COMPETITION CAR. INTED Proceedings, 2017, , .	0.0	1
63	Electronic sensors subject for students from degrees of chemistry and environment. , 2012, , .		0
64	Incorporation of E-textile into the textile engineering master and doctorate program. , 2020, , .		0
65	MECHATRONICS, A NEW REALITY AT THE SPANISH UNIVERSITY. INTED Proceedings, 2018, , .	0.0	0
66	Validation of an automated system for the experimentation of photothermal therapies on cell cultures. Sensors and Actuators A: Physical, 2022, 337, 113426.	4.1	0