

Miguel Alcáiz Fillol

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,088
citations

331259

21
h-index

414034

32
g-index

53
all docs

53
docs citations

53
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	A voltammetric electronic tongue as tool for water quality monitoring in wastewater treatment plants. <i>Water Research</i> , 2012, 46, 2605-2614.	5.3	86
2	Detection of frozen-thawed salmon (<i>Salmo salar</i>) by a rapid low-cost method. <i>Journal of Food Engineering</i> , 2012, 113, 210-216.	2.7	73
3	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.	4.0	69
4	Design of a low-cost non-destructive system for punctual measurements of salt levels in food products using impedance spectroscopy. <i>Sensors and Actuators A: Physical</i> , 2010, 158, 217-223.	2.0	60
5	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.	4.2	56
6	Differentiation between fresh and frozen-thawed sea bream (<i>Sparus aurata</i>) using impedance spectroscopy techniques. <i>Innovative Food Science and Emerging Technologies</i> , 2013, 19, 210-217.	2.7	51
7	Use of the voltammetric tongue in fresh cod (<i>Gadus morhua</i>) quality assessment. <i>Innovative Food Science and Emerging Technologies</i> , 2013, 18, 256-263.	2.7	40
8	Approach to unbalance power active compensation under linear load unbalances and fundamental voltage asymmetries. <i>International Journal of Electrical Power and Energy Systems</i> , 2007, 29, 526-539.	3.3	34
9	Use of impedance spectroscopy for predicting freshness of sea bream (<i>Sparus aurata</i>). <i>Food Control</i> , 2014, 35, 360-365.	2.8	34
10	Design of an electronic system and its application to electronic tongues using variable amplitude pulse voltammetry and impedance spectroscopy. <i>Journal of Food Engineering</i> , 2012, 111, 122-128.	2.7	32
11	A voltammetric e-tongue tool for the emulation of the sensorial analysis and the discrimination of vegetal milks. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 231-238.	4.0	32
12	Glyphosate Detection by Means of a Voltammetric Electronic Tongue and Discrimination of Potential Interferents. <i>Sensors</i> , 2012, 12, 17553-17568.	2.1	29
13	Development of a new salmon salting-smoking method and process monitoring by impedance spectroscopy. <i>LWT - Food Science and Technology</i> , 2013, 51, 218-224.	2.5	27
14	Innovative Nondestructive Measurements of Water Activity and the Content of Salts in Low-Salt Hake Minces. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 2496-2505.	2.4	27
15	Selective Shunt Active Power Compensator Applied in Four-Wire Electrical Systems Based on IEEE Std. 1459. <i>IEEE Transactions on Power Delivery</i> , 2008, 23, 2563-2574.	2.9	26
16	TNT detection using a voltammetric electronic tongue based on neural networks. <i>Sensors and Actuators A: Physical</i> , 2013, 192, 1-8.	2.0	25
17	Selective Compensation in Four-Wire Electric Systems Based on a New Equivalent Conductance Approach. <i>IEEE Transactions on Industrial Electronics</i> , 2009, 56, 2862-2874.	5.2	24
18	An optoelectronic sensing device for CO detection in air based on a binuclear rhodium complex. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 257-263.	4.0	24

#	ARTICLE	IF	CITATIONS
19	Achieving Maximum Efficiency in Three-Phase Systems With a Shunt Active Power Compensator Based on IEEE Std. 1459. IEEE Transactions on Power Delivery, 2008, 23, 812-822.	2.9	22
20	Development of a low-cost non-destructive system for measuring moisture and salt content in smoked fish products. Procedia Food Science, 2011, 1, 1195-1201.	0.6	21
21	Voltammetry pulse array developed to determine the antioxidant activity of camu-camu (Myrciaria Tj ETQq1 1 0.784314 rgBT /Ov voltammetric electronic tongues. Food Control, 2015, 54, 181-187.	2.8	21
22	A method of pulse array design for voltammetric electronic tongues. Sensors and Actuators B: Chemical, 2012, 161, 556-563.	4.0	20
23	Electro-responsive films containing voltage responsive gated mesoporous silica nanoparticles grafted onto PEDOT-based conducting polymer. Journal of Controlled Release, 2020, 323, 421-430.	4.8	20
24	Odour sampling system with modifiable parameters applied to fruit classification. Journal of Food Engineering, 2013, 116, 277-285.	2.7	19
25	Development of a puncture electronic device for electrical conductivity measurements throughout meat salting. Sensors and Actuators A: Physical, 2008, 148, 63-67.	2.0	18
26	Artificial neural network onto eight bit microcontroller for Secchi depth calculation. Sensors and Actuators B: Chemical, 2011, 156, 132-139.	4.0	18
27	Low-Cost Electronic Tongue System and Its Application to Explosive Detection. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 424-431.	2.4	18
28	Quantification of organic acids using voltammetric tongues. Food Chemistry, 2013, 138, 814-820.	4.2	17
29	A Voltammetric Electronic Tongue for the Quantitative Analysis of Quality Parameters in Wastewater. Electroanalysis, 2017, 29, 1147-1153.	1.5	14
30	Selective Shunt Active Power Compensator in Four Wire Electrical Systems Using Symmetrical Components. Electric Power Components and Systems, 2007, 35, 97-118.	1.0	12
31	Quantitative Determination of Spring Water Quality Parameters via Electronic Tongue. Sensors, 2018, 18, 40.	2.1	12
32	Potential step voltammetry: An approach to corrosion rate measurement of reinforcements in concrete. Cement and Concrete Composites, 2020, 110, 103590.	4.6	12
33	Influence of potential pulses amplitude sequence in a voltammetric electronic tongue (VET) applied to assess antioxidant capacity in aliso. Food Chemistry, 2017, 224, 233-241.	4.2	11
34	Microalgae degradation follow up by voltammetric electronic tongue, impedance spectroscopy and NMR spectroscopy. Sensors and Actuators B: Chemical, 2019, 281, 44-52.	4.0	11
35	Characterization of electrochemical systems using potential step voltammetry. Part I: Modeling by means of equivalent circuits. Electrochimica Acta, 2019, 323, 134702.	2.6	10
36	Characterization of electrochemical systems using potential step voltammetry. Part II: Modeling of reversible systems. Electrochimica Acta, 2019, 328, 135111.	2.6	10

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37	Classification of unaltered and altered dry-cured ham by impedance spectroscopy: A preliminary study. Meat Science, 2014, 98, 695-700.	2.7	9
38	A study of the importance of the cell geometry in non-Faradaic systems. A new definition of the cell constant for conductivity measurement. Electrochimica Acta, 2015, 153, 263-272.	2.6	9
39	Simultaneous serotonin and dopamine monitoring across timescales by rapid pulse voltammetry with partial least squares regression. Analytical and Bioanalytical Chemistry, 2021, 413, 6747-6767.	1.9	9
40	Teaching Electronics to Aeronautical Engineering Students by Developing Projects. Revista Iberoamericana De Tecnologías Del Aprendizaje, 2015, 10, 282-289.	0.7	7
41	A humid electronic nose based on pulse voltammetry: A proof-of-concept design. Sensors and Actuators B: Chemical, 2013, 186, 666-673.	4.0	5
42	Assessing heat treatment of chicken breast cuts by impedance spectroscopy. Food Science and Technology International, 2017, 23, 110-118.	1.1	5
43	Classification of honeys of different floral origins by artificial neural networks. , 2011, , .		3
44	Support Vector Machine as Tool for Classifying Coffee Beverages. Advances in Intelligent Systems and Computing, 2020, , 275-284.	0.5	2
45	Shunt active power compensator/photovoltaic generator for delta loads using the symmetrical components transformation. , 2005, , .		1
46	Design and Implementation of an Electronic Nose System for the Determination of Fish Freshness. , 2009, , .		1
47	Portable Measurement System for Voltammetry and Impedance Spectroscopy. Application for TNT Detection. Procedia Engineering, 2012, 47, 1129-1132.	1.2	1
48	Discovering electronics to aerospace engineers. , 2014, , .		1
49	Design and Implementation of a Low-Cost Non-Destructive System for Measurements of Water and Salt Levels in Food Products Using Impedance Spectroscopy. , 2009, , .		0
50	A Novel Humid Electronic Nose Based on Voltammetry. Procedia Engineering, 2012, 47, 941-944.	1.2	0
51	Voltammetric Electronic Tongues Applied to Classify Sucrose Samples Through Multivariate Analysis. Lecture Notes in Networks and Systems, 2021, , 216-222.	0.5	0