Jesús Brezmes

List of Publications by Year
in descending order

		159585	182427
73 papers	**2,787** citations	**30** h-index	**51** g-index
73 all docs	**73** docs citations	**73** times ranked	**3042** citing authors

#	ARTICLE	IF	CITATIONS
1	Amanida: an R package for meta-analysis of metabolomics non-integral data. Bioinformatics, 2022, 38, 583-585.	4.1	11
2	Comprehensive Volatilome and Metabolome Signatures of Colorectal Cancer in Urine: A Systematic Review and Meta-Analysis. Cancers, 2021, 13, 2534.	3.7	19
3	rMSIproc: an R package for mass spectrometry imaging data processing. Bioinformatics, 2020, 36, 3618-3619.	4.1	21
4	Novel automated workflow for spectral alignment and mass calibration in MS imaging using a sputtered Ag nanolayer. Analytica Chimica Acta, 2018, 1022, 61-69.	5.4	21
5	Assessing the potential of sputtered gold nanolayers in mass spectrometry imaging for metabolomics applications. PLoS ONE, 2018, 13, e0208908.	2.5	25
6	rMSI: an R package for MS imaging data handling and visualization. Bioinformatics, 2017, 33, 2427-2428.	4.1	36
7	Baitmet, a computational approach for GC–MS library-driven metabolite profiling. Metabolomics, 2017, 13, 1.	3.0	7
8	Electronic Noses for Monitoring the Quality of Fruit. , 2016, , 49-58.		6
9	Performance Comparison of Fuzzy ARTMAP and LDA in Qualitative Classification of Iranian Rosa damascena Essential Oils by an Electronic Nose. Sensors, 2016, 16, 636.	3.8	16
10	eRah: A Computational Tool Integrating Spectral Deconvolution and Alignment with Quantification and Identification of Metabolites in GC/MS-Based Metabolomics. Analytical Chemistry, 2016, 88, 9821-9829.	6.5	101
11	Design and evaluation of standard lipid prediction models based on 1H-NMR spectroscopy of human serum/plasma samples. Metabolomics, 2015, 11, 1394-1404.	3.0	3
12	Dolphin: a tool for automatic targeted metabolite profiling using 1D and 2D 1H-NMR data. Analytical and Bioanalytical Chemistry, 2014, 406, 7967-7976.	3.7	55
13	Human serum/plasma lipoprotein analysis by NMR: Application to the study of diabetic dyslipidemia. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 70, 1-24.	7.5	55
14	Use of multivariate chemometric algorithms on 1H NMR data to assess a soluble fiber (Plantago ovata Tj ETQq0 0 0 rgBT /Overlock 10 T	3.5	5
15	Surface fitting of 2D diffusion-edited 1H NMR spectroscopy data for the characterisation of human plasma lipoproteins. Metabolomics, 2011, 7, 572-582.	3.0	25
16	A Supervised Feature Extraction Method For GC-MS Data Based On PLS. Application To Olive Oil Adulteration Detection. , 2011, , .		0
17	MS-electronic nose performance improvement using the retention time dimension and two-way and three-way data processing methods. Sensors and Actuators B: Chemical, 2010, 143, 759-768.	7.8	10
18	Metabolomic Assessment of the Effect of Dietary Cholesterol in the Progressive Development of Fatty Liver Disease. Journal of Proteome Research, 2010, 9, 2527-2538.	3.7	141

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19	MS-Electronic Nose Performance Improvement Using GC Retention Times And 2-Way And 3-Way Data Processing Methods. , 2009, , .		0
20	A Fuzzy ARTMAP Approach To The Incorporation Of Chromatographic Retention Time Information To An MS Based E-Nose. , 2009, , .		0
21	Metabolic phenotyping of genetically modified mice: An NMR metabonomic approachâ˜†. Biochimie, 2009, 91, 1053-1057.	2.6	23
22	Fish freshness analysis using metallic potentiometric electrodes. Sensors and Actuators B: Chemical, 2008, 131, 362-370.	7.8	79
23	Thermal desorption pre-concentrator based system to assess carbon dioxide contamination by benzene. Sensors and Actuators B: Chemical, 2008, 131, 85-92.	7.8	14
24	Selectivity Enhancement in Multisensor Systems Using Flow Modulation Techniques. Sensors, 2008, 8, 7369-7379.	3.8	15
25	Analysis of Fish Freshness by Using Metallic Potentiometric Electrodes. , 2007, , .		4
26	Efficient feature selection for mass spectrometry based electronic nose applications. Chemometrics and Intelligent Laboratory Systems, 2007, 85, 253-261.	3.5	44
27	Quantitative gas mixture analysis using temperature-modulated micro-hotplate gas sensors: Selection and validation of the optimal modulating frequencies. Sensors and Actuators B: Chemical, 2007, 123, 1002-1016.	7.8	68
28	Use of a MS-electronic nose for prediction of early fungal spoilage of bakery products. International Journal of Food Microbiology, 2007, 114, 10-16.	4.7	32
29	Variable selection for support vector machine based multisensor systems. Sensors and Actuators B: Chemical, 2007, 122, 259-268.	7.8	50
30	Sensitivity and selectivity improvement of rf sputtered WO3 microhotplate gas sensors. Sensors and Actuators B: Chemical, 2006, 113, 241-248.	7.8	101
31	Coupling fast variable selection methods to neural network-based classifiers: Application to multisensor systems. Sensors and Actuators B: Chemical, 2006, 114, 522-529.	7.8	23
32	Regression using fuzzy adaptive resonant theory neural network. Electronics Letters, 2006, 42, 1415.	1.0	1
33	A fuzzy ARTMAP- and PLS-based MS e-nose for the qualitative and quantitative assessment of rancidity in crisps. Sensors and Actuators B: Chemical, 2005, 106, 677-686.	7.8	15
34	Optimised temperature modulation of metal oxide micro-hotplate gas sensors through multilevel pseudo random sequences. Sensors and Actuators B: Chemical, 2005, 111-112, 271-280.	7.8	34
35	Gas sensing properties of nanoparticle indium-doped WO3 thick films. Sensors and Actuators B: Chemical, 2005, 111-112, 45-51.	7.8	47
36	Fast detection of rancidity in potato crisps using e-noses based on mass spectrometry or gas sensors. Sensors and Actuators B: Chemical, 2005, 106, 67-75.	7.8	53

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37	Evaluation of an electronic nose to assess fruit ripeness. IEEE Sensors Journal, 2005, 5, 97-108.	4.7	90
38	An unsupervised dimensionality-reduction technique. , 2005, , .		1
39	Optimized temperature modulation of micro-hotplate gas sensors through pseudorandom binary sequences. IEEE Sensors Journal, 2005, 5, 1369-1378.	4.7	38
40	Nanoparticle metal-oxide films for micro-hotplate-based gas sensor systems. IEEE Sensors Journal, 2005, 5, 798-809.	4.7	20
41	Discrimination between different samples of olive oil using variable selection techniques and modified fuzzy artmap neural networks. IEEE Sensors Journal, 2005, 5, 463-470.	4.7	31
42	Gas Sensing Using Support Vector Machines. Studies in Fuzziness and Soft Computing, 2005, , 365-386.	0.8	0
43	Influence of the doping method on the sensitivity of Pt-doped screen-printed SnO2 sensors. Sensors and Actuators B: Chemical, 2004, 97, 67-73.	7.8	52
44	Building parsimonious fuzzy ARTMAP models by variable selection with a cascaded genetic algorithm: application to multisensor systems for gas analysis. Sensors and Actuators B: Chemical, 2004, 99, 267-272.	7.8	32
45	Development of high sensitivity ethanol gas sensors based on Pt-doped SnO2 surfaces. Sensors and Actuators B: Chemical, 2004, 99, 201-206.	7.8	137
46	Pt-loaded Al2O3 catalytic filters for screen-printed WO3 sensors highly selective to benzene. Sensors and Actuators B: Chemical, 2004, 101, 277-283.	7.8	59
47	Sputtered and screen-printed metal oxide-based integrated micro-sensor arrays for the quantitative analysis of gas mixtures. Sensors and Actuators B: Chemical, 2004, 103, 23-30.	7.8	24
48	Early Detection of Fungal Growth in Bakery Products by Use of an Electronic Nose Based on Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2004, 52, 6068-6074.	5.2	47
49	Temperature-modulated gas sensors: selection of modulating frequencies through noise methods. , 2004, , .		0
50	Dealing with humidity in the qualitative analysis of CO and NO2 using a WO3 sensor and dynamic signal processing. Sensors and Actuators B: Chemical, 2003, 95, 177-182.	7.8	30
51	Screen-printed nanoparticle tin oxide films for high-yield sensor microsystems. Sensors and Actuators B: Chemical, 2003, 96, 94-104.	7.8	44
52	Response model for thermally modulated tin oxide-based microhotplate gas sensors. Sensors and Actuators B: Chemical, 2003, 95, 203-211.	7.8	48
53	On-line drift counteraction for metal oxide gas sensor arrays. Electronics Letters, 2003, 39, 40.	1.0	6
54	Quantitative analysis of NO2 in the presence of CO using a single tungsten oxide semiconductor sensor and dynamic signal processingElectronic Supplementary Information (ESI) available: NIPALS algorithm, the PLS algorithm for one C variable, backpropagation learning algorithm, RBF network training algorithm, ART1 and Fuzzy ART mathematical models. See http://www.rsc.org/suppdata/an/b2/b205009a/. Analyst, The, 2002, 127, 1237-1246.	3.5	54

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55	Wavelet transform and fuzzy ARTMAP-based pattern recognition for fast gas identification using a micro-hotplate gas sensor. Sensors and Actuators B: Chemical, 2002, 83, 238-244.	7.8	75
56	Electronic nose simulation tool centred on PSpice. Sensors and Actuators B: Chemical, 2001, 76, 419-429.	7.8	12
57	Electrical equivalent models of semiconductor gas sensors using PSpice. Sensors and Actuators B: Chemical, 2001, 77, 275-280.	7.8	24
58	Correlation between electronic nose signals and fruit quality indicators on shelf-life measurements with pinklady apples. Sensors and Actuators B: Chemical, 2001, 80, 41-50.	7.8	123
59	Multicomponent gas mixture analysis using a single tin oxide sensor and dynamic pattern recognition. IEEE Sensors Journal, 2001, 1, 207-213.	4.7	91
60	Wavelet Transform and Fuzzy ARTMAP Based Pattern Recognition for Fast Gas Identification Using a Micro-Hotplate Gas Sensor. , 2001, , 1644-1647.		2
61	Fruit ripeness monitoring using an Electronic Nose. Sensors and Actuators B: Chemical, 2000, 69, 223-229.	7.8	143
62	Fabrication of Highly Selective Tungsten Oxide Ammonia Sensors. Journal of the Electrochemical Society, 2000, 147, 776.	2.9	140
63	SPICE model for quartz crystal microbalance gas sensors. Electronics Letters, 1999, 35, 772.	1.0	14
64	Selective methane detection under varying moisture conditions using static and dynamic sensor signals. Sensors and Actuators B: Chemical, 1999, 60, 106-117.	7.8	15
65	Transient response of thick-film tin oxide gas-sensors to multicomponent gas mixtures. Sensors and Actuators B: Chemical, 1998, 47, 104-112.	7.8	19
66	Steadyâ€State and Transient Behavior of Thickâ€Film Tin Oxide Sensors in the Presence of Gas Mixtures. Journal of the Electrochemical Society, 1998, 145, 1772-1779.	2.9	18
67	Application of artificial neural networks to the design and implementation of electronic olfactory systems. Lecture Notes in Computer Science, 1997, , 1183-1192.	1.3	1
68	Conductance-transient analysis of thick-film tin oxide gas sensors under successive gas-injection steps. Measurement Science and Technology, 1997, 8, 1133-1138.	2.6	11
69	Qualitative and quantitative analysis of volatile organic compounds using transient and steady-state responses of a thick-film tin oxide gas sensor array. Sensors and Actuators B: Chemical, 1997, 41, 13-21.	7.8	169
70	Neural network based electronic nose for the classification of aromatic species. Analytica Chimica Acta, 1997, 348, 503-509.	5.4	49
71	Quantitative vapor analysis using the transient response of non-selective thick-film tin oxide gas sensors. , 0, , .		4
72	A multisensor system for monitoring the quality of carbon dioxide in the beverage industry. , 0, , .		4

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73	Enhancing Sensor Selectivity Through Flow Modulation. , 0, , .		0