

JesÅ°s Brezmes

List of Publications by Year in descending order

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73
papers

2,787
citations

159585

30
h-index

182427

51
g-index

73
all docs

73
docs citations

73
times ranked

3042
citing authors

#	ARTICLE	IF	CITATIONS
1	Qualitative and quantitative analysis of volatile organic compounds using transient and steady-state responses of a thick-film tin oxide gas sensor array. <i>Sensors and Actuators B: Chemical</i> , 1997, 41, 13-21.	7.8	169
2	Fruit ripeness monitoring using an Electronic Nose. <i>Sensors and Actuators B: Chemical</i> , 2000, 69, 223-229.	7.8	143
3	Metabolomic Assessment of the Effect of Dietary Cholesterol in the Progressive Development of Fatty Liver Disease. <i>Journal of Proteome Research</i> , 2010, 9, 2527-2538.	3.7	141
4	Fabrication of Highly Selective Tungsten Oxide Ammonia Sensors. <i>Journal of the Electrochemical Society</i> , 2000, 147, 776.	2.9	140
5	Development of high sensitivity ethanol gas sensors based on Pt-doped SnO ₂ surfaces. <i>Sensors and Actuators B: Chemical</i> , 2004, 99, 201-206.	7.8	137
6	Correlation between electronic nose signals and fruit quality indicators on shelf-life measurements with pink lady apples. <i>Sensors and Actuators B: Chemical</i> , 2001, 80, 41-50.	7.8	123
7	Sensitivity and selectivity improvement of rf sputtered WO ₃ microhotplate gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 241-248.	7.8	101
8	eRah: A Computational Tool Integrating Spectral Deconvolution and Alignment with Quantification and Identification of Metabolites in GC/MS-Based Metabolomics. <i>Analytical Chemistry</i> , 2016, 88, 9821-9829.	6.5	101
9	Multicomponent gas mixture analysis using a single tin oxide sensor and dynamic pattern recognition. <i>IEEE Sensors Journal</i> , 2001, 1, 207-213.	4.7	91
10	Evaluation of an electronic nose to assess fruit ripeness. <i>IEEE Sensors Journal</i> , 2005, 5, 97-108.	4.7	90
11	Fish freshness analysis using metallic potentiometric electrodes. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 362-370.	7.8	79
12	Wavelet transform and fuzzy ARTMAP-based pattern recognition for fast gas identification using a micro-hotplate gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2002, 83, 238-244.	7.8	75
13	Quantitative gas mixture analysis using temperature-modulated micro-hotplate gas sensors: Selection and validation of the optimal modulating frequencies. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 1002-1016.	7.8	68
14	Pt-loaded Al ₂ O ₃ catalytic filters for screen-printed WO ₃ sensors highly selective to benzene. <i>Sensors and Actuators B: Chemical</i> , 2004, 101, 277-283.	7.8	59
15	Human serum/plasma lipoprotein analysis by NMR: Application to the study of diabetic dyslipidemia. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2013, 70, 1-24.	7.5	55
16	Dolphin: a tool for automatic targeted metabolite profiling using 1D and 2D 1H-NMR data. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7967-7976.	3.7	55
17	Quantitative analysis of NO ₂ in the presence of CO using a single tungsten oxide semiconductor sensor and dynamic signal processing. Electronic 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/ani/b2/b205009a1 . <i>Analyst</i> , 2002, 127, 1237-1246.	3.5	54
18	Fast detection of rancidity in potato crisps using e-noses based on mass spectrometry or gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2005, 106, 67-75.	7.8	53

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19	Influence of the doping method on the sensitivity of Pt-doped screen-printed SnO ₂ sensors. <i>Sensors and Actuators B: Chemical</i> , 2004, 97, 67-73.	7.8	52
20	Variable selection for support vector machine based multisensor systems. <i>Sensors and Actuators B: Chemical</i> , 2007, 122, 259-268.	7.8	50
21	Neural network based electronic nose for the classification of aromatic species. <i>Analytica Chimica Acta</i> , 1997, 348, 503-509.	5.4	49
22	Response model for thermally modulated tin oxide-based microhotplate gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2003, 95, 203-211.	7.8	48
23	Early Detection of Fungal Growth in Bakery Products by Use of an Electronic Nose Based on Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 6068-6074.	5.2	47
24	Gas sensing properties of nanoparticle indium-doped WO ₃ thick films. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 45-51.	7.8	47
25	Screen-printed nanoparticle tin oxide films for high-yield sensor microsystems. <i>Sensors and Actuators B: Chemical</i> , 2003, 96, 94-104.	7.8	44
26	Efficient feature selection for mass spectrometry based electronic nose applications. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 85, 253-261.	3.5	44
27	Optimized temperature modulation of micro-hotplate gas sensors through pseudorandom binary sequences. <i>IEEE Sensors Journal</i> , 2005, 5, 1369-1378.	4.7	38
28	rMSI: an R package for MS imaging data handling and visualization. <i>Bioinformatics</i> , 2017, 33, 2427-2428.	4.1	36
29	Optimised temperature modulation of metal oxide micro-hotplate gas sensors through multilevel pseudo random sequences. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 271-280.	7.8	34
30	Building parsimonious fuzzy ARTMAP models by variable selection with a cascaded genetic algorithm: application to multisensor systems for gas analysis. <i>Sensors and Actuators B: Chemical</i> , 2004, 99, 267-272.	7.8	32
31	Use of a MS-electronic nose for prediction of early fungal spoilage of bakery products. <i>International Journal of Food Microbiology</i> , 2007, 114, 10-16.	4.7	32
32	Discrimination between different samples of olive oil using variable selection techniques and modified fuzzy artmap neural networks. <i>IEEE Sensors Journal</i> , 2005, 5, 463-470.	4.7	31
33	Dealing with humidity in the qualitative analysis of CO and NO ₂ using a WO ₃ sensor and dynamic signal processing. <i>Sensors and Actuators B: Chemical</i> , 2003, 95, 177-182.	7.8	30
34	Surface fitting of 2D diffusion-edited ¹ H NMR spectroscopy data for the characterisation of human plasma lipoproteins. <i>Metabolomics</i> , 2011, 7, 572-582.	3.0	25
35	Assessing the potential of sputtered gold nanolayers in mass spectrometry imaging for metabolomics applications. <i>PLoS ONE</i> , 2018, 13, e0208908.	2.5	25
36	Electrical equivalent models of semiconductor gas sensors using PSpice. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 275-280.	7.8	24

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37	Sputtered and screen-printed metal oxide-based integrated micro-sensor arrays for the quantitative analysis of gas mixtures. <i>Sensors and Actuators B: Chemical</i> , 2004, 103, 23-30.	7.8	24
38	Coupling fast variable selection methods to neural network-based classifiers: Application to multisensor systems. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 522-529.	7.8	23
39	Metabolic phenotyping of genetically modified mice: An NMR metabonomic approach. <i>Biochimie</i> , 2009, 91, 1053-1057.	2.6	23
40	Novel automated workflow for spectral alignment and mass calibration in MS imaging using a sputtered Ag nanolayer. <i>Analytica Chimica Acta</i> , 2018, 1022, 61-69.	5.4	21
41	rMSIproc: an R package for mass spectrometry imaging data processing. <i>Bioinformatics</i> , 2020, 36, 3618-3619.	4.1	21
42	Nanoparticle metal-oxide films for micro-hotplate-based gas sensor systems. <i>IEEE Sensors Journal</i> , 2005, 5, 798-809.	4.7	20
43	Transient response of thick-film tin oxide gas-sensors to multicomponent gas mixtures. <i>Sensors and Actuators B: Chemical</i> , 1998, 47, 104-112.	7.8	19
44	Comprehensive Volatilome and Metabolome Signatures of Colorectal Cancer in Urine: A Systematic Review and Meta-Analysis. <i>Cancers</i> , 2021, 13, 2534.	3.7	19
45	Steady-State and Transient Behavior of Thick-Film Tin Oxide Sensors in the Presence of Gas Mixtures. <i>Journal of the Electrochemical Society</i> , 1998, 145, 1772-1779.	2.9	18
46	Performance Comparison of Fuzzy ARTMAP and LDA in Qualitative Classification of Iranian Rosa damascena Essential Oils by an Electronic Nose. <i>Sensors</i> , 2016, 16, 636.	3.8	16
47	Selective methane detection under varying moisture conditions using static and dynamic sensor signals. <i>Sensors and Actuators B: Chemical</i> , 1999, 60, 106-117.	7.8	15
48	A fuzzy ARTMAP- and PLS-based MS e-nose for the qualitative and quantitative assessment of rancidity in crisps. <i>Sensors and Actuators B: Chemical</i> , 2005, 106, 677-686.	7.8	15
49	Selectivity Enhancement in Multisensor Systems Using Flow Modulation Techniques. <i>Sensors</i> , 2008, 8, 7369-7379.	3.8	15
50	SPICE model for quartz crystal microbalance gas sensors. <i>Electronics Letters</i> , 1999, 35, 772.	1.0	14
51	Thermal desorption pre-concentrator based system to assess carbon dioxide contamination by benzene. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 85-92.	7.8	14
52	Electronic nose simulation tool centred on PSpice. <i>Sensors and Actuators B: Chemical</i> , 2001, 76, 419-429.	7.8	12
53	Conductance-transient analysis of thick-film tin oxide gas sensors under successive gas-injection steps. <i>Measurement Science and Technology</i> , 1997, 8, 1133-1138.	2.6	11
54	Amanida: an R package for meta-analysis of metabolomics non-integral data. <i>Bioinformatics</i> , 2022, 38, 583-585.	4.1	11

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55	MS-electronic nose performance improvement using the retention time dimension and two-way and three-way data processing methods. <i>Sensors and Actuators B: Chemical</i> , 2010, 143, 759-768.	7.8	10
56	Baitmet, a computational approach for GC-MS library-driven metabolite profiling. <i>Metabolomics</i> , 2017, 13, 1.	3.0	7
57	On-line drift counteraction for metal oxide gas sensor arrays. <i>Electronics Letters</i> , 2003, 39, 40.	1.0	6
58	Electronic Noses for Monitoring the Quality of Fruit. , 2016, , 49-58.		6
59	Use of multivariate chemometric algorithms on 1H NMR data to assess a soluble fiber (Plantago ovata) Tj ETQq1 1 0.784314 _{3.5} gBT /Over	3.5	5
60	Quantitative vapor analysis using the transient response of non-selective thick-film tin oxide gas sensors. , 0, , .		4
61	A multisensor system for monitoring the quality of carbon dioxide in the beverage industry. , 0, , .		4
62	Analysis of Fish Freshness by Using Metallic Potentiometric Electrodes. , 2007, , .		4
63	Design and evaluation of standard lipid prediction models based on 1H-NMR spectroscopy of human serum/plasma samples. <i>Metabolomics</i> , 2015, 11, 1394-1404.	3.0	3
64	Wavelet Transform and Fuzzy ARTMAP Based Pattern Recognition for Fast Gas Identification Using a Micro-Hotplate Gas Sensor. , 2001, , 1644-1647.		2
65	Application of artificial neural networks to the design and implementation of electronic olfactory systems. <i>Lecture Notes in Computer Science</i> , 1997, , 1183-1192.	1.3	1
66	An unsupervised dimensionality-reduction technique. , 2005, , .		1
67	Regression using fuzzy adaptive resonant theory neural network. <i>Electronics Letters</i> , 2006, 42, 1415.	1.0	1
68	Temperature-modulated gas sensors: selection of modulating frequencies through noise methods. , 2004, , .		0
69	Enhancing Sensor Selectivity Through Flow Modulation. , 0, , .		0
70	Gas Sensing Using Support Vector Machines. <i>Studies in Fuzziness and Soft Computing</i> , 2005, , 365-386.	0.8	0
71	MS-Electronic Nose Performance Improvement Using GC Retention Times And 2-Way And 3-Way Data Processing Methods. , 2009, , .		0
72	A Fuzzy ARTMAP Approach To The Incorporation Of Chromatographic Retention Time Information To An MS Based E-Nose. , 2009, , .		0

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73	A Supervised Feature Extraction Method For GC-MS Data Based On PLS. Application To Olive Oil Adulteration Detection. , 2011, , .		0