

Antonio Pardo

List of Publications by Year in descending order

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40
papers

1,242
citations

394421

19
h-index

434195

31
g-index

40
all docs

40
docs citations

40
times ranked

1594
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring Gas Concentration and Wind Intensity in a Turbulent Wind Tunnel with a Mobile Robot. <i>Journal of Sensors</i> , 2016, 2016, 1-8.	1.1	409
2	Gas identification with tin oxide sensor array and self-organizing maps: adaptive correction of sensor drifts. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1998, 47, 316-321.	4.7	76
3	An intelligent detector based on temperature modulation of a gas sensor with a digital signal processor. <i>Sensors and Actuators B: Chemical</i> , 2001, 78, 32-39.	7.8	52
4	Application of an Array of Metal-Oxide Semiconductor Gas Sensors in an Assistant Personal Robot for Early Gas Leak Detection. <i>Sensors</i> , 2019, 19, 1957.	3.8	51
5	Direct coupling of a gas-liquid separator to an ion mobility spectrometer for the classification of different white wines using chemometrics tools. <i>Talanta</i> , 2011, 84, 471-479.	5.5	50
6	Nonlinear inverse dynamic models of gas sensing systems based on chemical sensor arrays for quantitative measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1998, 47, 644-651.	4.7	39
7	A portable electronic nose based on embedded PC technology and GNU/Linux: hardware, software and applications. <i>IEEE Sensors Journal</i> , 2002, 2, 235-246.	4.7	39
8	Gas identification with tin oxide sensor array and self organizing maps: adaptive correction of sensor drifts. , 0, , .		37
9	Hard modeling Multivariate Curve Resolution using LASSO: Application to Ion Mobility Spectra. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010, 104, 318-332.	3.5	37
10	Rapid detection of sepsis in rats through volatile organic compounds in breath. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 881-882, 76-82.	2.3	36
11	A new method to analyse signal transients in chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 1994, 18, 308-312.	7.8	35
12	Site-Specific Growth and in Situ Integration of Different Nanowire Material Networks on a Single Chip: Toward a Nanowire-Based Electronic Nose for Gas Detection. <i>ACS Sensors</i> , 2018, 3, 727-734.	7.8	31
13	Dynamic calibration of QMB polymer-coated sensors by Wiener kernel estimation. <i>Sensors and Actuators B: Chemical</i> , 1995, 27, 275-285.	7.8	28
14	Different strategies for the identification of gas sensing systems. <i>Sensors and Actuators B: Chemical</i> , 1996, 34, 213-223.	7.8	28
15	The potential of ion mobility spectrometry (IMS) for detection of 2,4,6-trichloroanisole (2,4,6-TCA) in wine. <i>Talanta</i> , 2012, 93, 200-205.	5.5	28
16	Multivariate curve resolution applied to temperature-modulated metal oxide gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 464-473.	7.8	24
17	Evaluation of fish spoilage by means of a single metal oxide sensor under temperature modulation. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 477-482.	7.8	23
18	Feature extraction on three way enose signals. <i>Sensors and Actuators B: Chemical</i> , 2006, 116, 145-150.	7.8	21

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19	Gas measurement systems based on IEEE1451.2 standard. <i>Sensors and Actuators B: Chemical</i> , 2006, 116, 11-16.	7.8	21
20	A micromachined thermoelectric sensor for natural gas analysis: Multivariate calibration results. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 338-348.	7.8	21
21	Fuzzy inference system for sensor array calibration: prediction of CO and CH4 levels in variable humidity conditions. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2002, 64, 103-122.	3.5	20
22	Multivariate curve resolution of nonlinear ion mobility spectra followed by multivariate nonlinear calibration for quantitative prediction. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 118, 219-229.	3.5	19
23	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
24	Full Workflows for the Analysis of Gas Chromatography–Ion Mobility Spectrometry in Foodomics: Application to the Analysis of Iberian Ham Aroma. <i>Sensors</i> , 2021, 21, 6156.	3.8	18
25	Comparison of the performance of three ion mobility spectrometers for measurement of biogenic amines. <i>Analytica Chimica Acta</i> , 2013, 758, 122-129.	5.4	16
26	Problem-based learning combined with project-based learning: A pilot application in digital signal processing. , 2014, , .		9
27	A novel differential mobility analyzer as a VOC detector and multivariate techniques for identification and quantification. <i>Analyst, The</i> , 2013, 138, 3512.	3.5	8
28	Adaptive Asymmetric Least Squares baseline estimation for analytical instruments. , 2014, , .		8
29	Instrumental drift removal in GC-MS data for breath analysis: the short-term and long-term temporal validation of putative biomarkers for COPD. <i>Journal of Breath Research</i> , 2018, 12, 036007.	3.0	8
30	A Mobile Robot Agent for Gas Leak Source Detection. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 19-25.	0.6	7
31	Quantitative GC–TCD Measurements of Major Flatus Components: A Preliminary Analysis of the Diet Effect. <i>Sensors</i> , 2022, 22, 838.	3.8	7
32	Breath analysis using electronic nose and gas chromatography-mass spectrometry: A pilot study on bronchial infections in bronchiectasis. <i>Clinica Chimica Acta</i> , 2022, 526, 6-13.	1.1	6
33	Sliding window multi-curve resolution: Application to gas chromatography–ion mobility spectrometry. <i>Sensors and Actuators B: Chemical</i> , 2015, 217, 13-21.	7.8	5
34	A feasibility study of drowsiness detection using driving behaviour parameters. , 2012, , .		4
35	Electronic System for Controlling the Food Cooking Process. <i>Procedia Chemistry</i> , 2009, 1, 489-492.	0.7	1
36	Localized and In-Situ Integration of Different Nanowire Materials for Electronic Nose Applications. <i>Proceedings (mdpi)</i> , 2018, 2, 957.	0.2	1

#	ARTICLE	IF	CITATIONS
37	Potato creams recognition from electronic nose and tongue signals: feature extraction/selection and RBF neural networks classifiers. , 0, , .		0
38	Blind Source Separation For Ion Mobility Spectra. , 2009, , .		0
39	Resolution of Ion Mobility Spectra for the Detection of Hazardous Substances in Real Sampling Conditions. , 2009, , .		0
40	Different Nanowire Materials Localized Growth and In-Situ Integration for Electronic Nose Applications. , 2018, , .		0