Xavier Correig

List of Publications by Year
in descending order

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212 papers	7,352 citations	50566 48 h-index	90395 73 g-index
214 all docs	214 docs citations	214 times ranked	9331 citing authors

#	Article	IF	Citations
1	What are we imaging? Software tools and experimental strategies for annotation and identification of small molecules in mass spectrometry imaging. Mass Spectrometry Reviews, 2023, 42, 1927-1964.	2.8	14
2	SALDI-MS and SERS Multimodal Imaging: One Nanostructured Substrate to Rule Them Both. Analytical Chemistry, 2022, 94, 2785-2793.	3.2	18
3	Application of Machine Learning Solutions to Optimize Parameter Prediction to Enhance Automatic NMR Metabolite Profiling. Metabolites, 2022, 12, 283.	1.3	0
4	Muscular carnosine is a marker for cardiorespiratory fitness and cardiometabolic risk factors in men with type 1 diabetes. European Journal of Applied Physiology, 2022, , 1.	1.2	0
5	Analysis of LDL and HDL size and number by nuclear magnetic resonance in a healthy working population: The LipoLab Study. International Journal of Clinical Practice, 2021, 75, e13610.	0.8	8
6	Unravelling the metabolic alterations of liver damage induced by thirdhand smoke. Environment International, 2021, 146, 106242.	4.8	9
7	Acute-phase glycoprotein profile responses to different oral macronutrient challenges: Influence of sex, functional hyperandrogenism and obesity. Clinical Nutrition, 2021, 40, 1241-1246.	2.3	11
8	Perspective on Multimodal Imaging Techniques Coupling Mass Spectrometry and Vibrational Spectroscopy: Picturing the Best of Both Worlds. Analytical Chemistry, 2021, 93, 6301-6310.	3.2	19
9	rMSIannotation: A peak annotation tool for mass spectrometry imaging based on the analysis of isotopic intensity ratios. Analytica Chimica Acta, 2021, 1171, 338669.	2.6	11
10	Statistical mediation of the relationships between chronological age and lipoproteins by nonessential amino acids in healthy men. Computational and Structural Biotechnology Journal, 2021, 19, 6169-6178.	1.9	1
11	Glycoprotein Profile Measured by a 1H-Nuclear Magnetic Resonance Based on Approach in Patients with Diabetes: A New Robust Method to Assess Inflammation. Life, 2021, 11, 1407.	1.1	7
12	Raman2imzML converts Raman imaging data into the standard mass spectrometry imaging format. BMC Bioinformatics, 2020, 21, 448.	1.2	12
13	rMSIcleanup: an open-source tool for matrix-related peak annotation in mass spectrometry imaging and its application to silver-assisted laser desorption/ionization. Journal of Cheminformatics, 2020, 12, 45.	2.8	6
14	Hepatic Lipidomics and Molecular Imaging in a Murine Non-Alcoholic Fatty Liver Disease Model: Insights into Molecular Mechanisms. Biomolecules, 2020, 10, 1275.	1.8	9
15	Glycoprotein Profile Assessed by 1H-NMR as a Global Inflammation Marker in Patients with HIV Infection. A Prospective Study. Journal of Clinical Medicine, 2020, 9, 1344.	1.0	14
16	Gold Nanoparticle-Assisted Black Silicon Substrates for Mass Spectrometry Imaging Applications. ACS Nano, 2020, 14, 6785-6794.	7.3	49
17	Habitual Fish Consumption, nâ€3 Fatty Acids, and Nuclear Magnetic Resonance Lipoprotein Subfractions in Women. Journal of the American Heart Association, 2020, 9, e014963.	1.6	14
18	Title: Human Serum/Plasma Glycoprotein Analysis by 1H-NMR, an Emerging Method of Inflammatory Assessment. Journal of Clinical Medicine, 2020, 9, 354.	1.0	57

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19	rMSIproc: an R package for mass spectrometry imaging data processing. Bioinformatics, 2020, 36, 3618-3619.	1.8	21
20	Niveles plasmÃ¡ticos de glucosa, triglicÃ©ridos, VLDL, leptina y resistina como potenciales biomarcadores de la grasa miocÃ¡rdica en ratones. ClÃ¬nica E InvestigaciÃ³n En Arteriosclerosis, 2020, 32, 8-14.	0.4	4
21	rMSIKeyIon: An Ion Filtering R Package for Untargeted Analysis of Metabolomic LDI-MS Images. Metabolites, 2019, 9, 162.	1.3	2
22	Serum Paraoxonase-1-Related Variables and Lipoprotein Profile in Patients with Lung or Head and Neck Cancer: Effect of Radiotherapy. Antioxidants, 2019, 8, 213.	2.2	14
23	HDL Triglycerides: A New Marker of Metabolic and Cardiovascular Risk. International Journal of Molecular Sciences, 2019, 20, 3151.	1.8	58
24	Siliconâ€Based Laser Desorption Ionization Mass Spectrometry for the Analysis of Biomolecules: A Progress Report. Advanced Functional Materials, 2019, 29, 1903609.	7.8	37
25	Gelsolin: a new biomarker of disease activity in SLE patients associated with HDL-c. Rheumatology, 2019, 59, 650-661.	0.9	5
26	Fatty acid binding protein 4 (FABP4) as a potential biomarker reflecting myocardial lipid storage in type 2 diabetes. Metabolism: Clinical and Experimental, 2019, 96, 12-21.	1.5	35
27	Biological Response to Meal Ingestion: Gender Differences. Nutrients, 2019, 11, 702.	1.7	18
28	Meal Enjoyment and Tolerance in Women and Men. Nutrients, 2019, 11, 119.	1.7	13
29	THU0231â€…GELSOLIN A NEW BIOMARKER OF DISEASE ACTIVITY IN SLE PATIENTS ASSOCIATED WITH HDL-C. , 2019, , .		0
30	Lipid Profiling Using 1H NMR Spectroscopy. Methods in Molecular Biology, 2019, 2037, 35-47.	0.4	6
31	rDolphin: a GUI R package for proficient automatic profiling of 1D 1H-NMR spectra of study datasets. Metabolomics, 2018, 14, 24.	1.4	52
32	Novel automated workflow for spectral alignment and mass calibration in MS imaging using a sputtered Ag nanolayer. Analytica Chimica Acta, 2018, 1022, 61-69.	2.6	21
33	A baseline metabolomic signature is associated with immunological CD4+ T-cell recovery after 36 months of antiretroviral therapy in HIV-infected patients. Aids, 2018, 32, 565-573.	1.0	26
34	LipSpin: A New Bioinformatics Tool for Quantitative ¹H NMR Lipid Profiling. Analytical Chemistry, 2018, 90, 2031-2040.	3.2	38
35	Signal preprocessing, multivariate analysis and software tools for MA(LDI)â€TOF mass spectrometry imaging for biological applications. Mass Spectrometry Reviews, 2018, 37, 281-306.	2.8	58
36	Fatty acid binding protein 4 (FABP4) contributes to myocardial steatosis and insulin resistance in cardiac cells. Atherosclerosis, 2018, 275, e66.	0.4	1

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37	Assessing the potential of sputtered gold nanolayers in mass spectrometry imaging for metabolomics applications. PLoS ONE, 2018, 13, e0208908.	1.1	25
38	Biomarkers of Exposure to Secondhand and Thirdhand Tobacco Smoke: Recent Advances and Future Perspectives. International Journal of Environmental Research and Public Health, 2018, 15, 2693.	1.2	89
39	Metabolomic Response to Acute Hypoxic Exercise and Recovery in Adult Males. Frontiers in Physiology, 2018, 9, 1682.	1.3	22
40	Characterization of ¹H NMR Plasma Glycoproteins as a New Strategy To Identify Inflammatory Patterns in Rheumatoid Arthritis. Journal of Proteome Research, 2018, 17, 3730-3739.	1.8	46
41	A baseline metabolomic signature is associated with immunological CD4+ T-Cell recovery after 36 months of art in HIV-infected patients. Atherosclerosis, 2018, 275, e33.	0.4	0
42	Metabolomic signature of the postprandial experience. Neurogastroenterology and Motility, 2018, 30, e13447.	1.6	7
43	Improving sample classification by harnessing the potential of 1H-NMR signal chemical shifts. Scientific Reports, 2018, 8, 11886.	1.6	3
44	Effect of pistachio consumption on the modulation of urinary gut microbiota-related metabolites in prediabetic subjects. Journal of Nutritional Biochemistry, 2017, 45, 48-53.	1.9	48
45	Effect of diets rich in either saturated fat or n-6 polyunsaturated fatty acids and supplemented with long-chain n-3 polyunsaturated fatty acids on plasma lipoprotein profiles. European Journal of Clinical Nutrition, 2017, 71, 1297-1302.	1.3	14
46	rMSI: an R package for MS imaging data handling and visualization. Bioinformatics, 2017, 33, 2427-2428.	1.8	36
47	Unravelling and Quantifying the â€œNMR-Invisibleâ€•Metabolites Interacting with Human Serum Albumin by Binding Competition and T2 Relaxation-Based Decomposition Analysis. Journal of Proteome Research, 2017, 16, 1847-1856.	1.8	12
48	Improvement of the omega 3 index of healthy subjects does not alter the effects of dietary saturated fats or n-6PUFA on LDL profiles. Metabolism: Clinical and Experimental, 2017, 68, 11-19.	1.5	13
49	Lipoprotein particle number and size distribution in apparently healthy spanish population according to sex and age, assessed by nuclear magnetic resonance. Atherosclerosis, 2017, 263, e86.	0.4	0
50	Metabolomics reveals novel blood plasma biomarkers associated to the BRCA1-mutated phenotype of human breast cancer. Scientific Reports, 2017, 7, 17831.	1.6	31
51	Lipoprotein hydrophobic core lipids are partially extruded to surface in smaller HDL: â€œHerniatedâ€•HDL, a common feature in diabetes. Scientific Reports, 2016, 6, 19249.	1.6	25
52	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.	3.2	101
53	Urine metabolome profiling of immune-mediated inflammatory diseases. BMC Medicine, 2016, 14, 133.	2.3	97
54	Dietary proanthocyanidins boost hepatic NAD+ metabolism and SIRT1 expression and activity in a dose-dependent manner in healthy rats. Scientific Reports, 2016, 6, 24977.	1.6	40

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55	Identification of endogenous metabolites in human sperm cells using proton nuclear magnetic resonance (¹H-NMR) spectroscopy and gas chromatography-mass spectrometry (GC-MS). Andrology, 2015, 3, 496-505.	1.9	48
56	Metabolomics reveals impaired maturation of HDL particles in adolescents with hyperinsulinaemic androgen excess. Scientific Reports, 2015, 5, 11496.	1.6	15
57	Dolphin 1D: Improving Automation of Targeted Metabolomics in Multi-matrix Datasets of ^{1}H-NMR Spectra. Advances in Intelligent Systems and Computing, 2015, , 59-67.	0.5	3
58	Effect of pistachio consumption on plasma lipoprotein subclasses in pre-diabetic subjects. Nutrition, Metabolism and Cardiovascular Diseases, 2015, 25, 396-402.	1.1	27
59	Compound identification in gas chromatography/mass spectrometry-based metabolomics by blind source separation. Journal of Chromatography A, 2015, 1409, 226-233.	1.8	26
60	Liposcale: a novel advanced lipoprotein test based on 2D diffusion-ordered 1H NMR spectroscopy. Journal of Lipid Research, 2015, 56, 737-746.	2.0	133
61	Design and evaluation of standard lipid prediction models based on 1H-NMR spectroscopy of human serum/plasma samples. Metabolomics, 2015, 11, 1394-1404.	1.4	3
62	Remarkable quantitative and qualitative differences in HDL after niacin or fenofibrate therapy in type 2 diabetic patients. Atherosclerosis, 2015, 238, 213-219.	0.4	23
63	Improving Assessment of Lipoprotein Profile in Type 1 Diabetes by 1H NMR Spectroscopy. PLoS ONE, 2015, 10, e0136348.	1.1	10
64	Liver fat deposition and mitochondrial dysfunction in morbid obesity: An approach combining metabolomics with liver imaging and histology. World Journal of Gastroenterology, 2015, 21, 7529.	1.4	35
65	Dolphin: a tool for automatic targeted metabolite profiling using 1D and 2D 1H-NMR data. Analytical and Bioanalytical Chemistry, 2014, 406, 7967-7976.	1.9	55
66	OP0189â€...Identification of Disease Diagnostic and Disease Activity Metabolomic Biomarkers in Immune-Mediated Inflammatory Diseases. Annals of the Rheumatic Diseases, 2014, 73, 134.1-134.	0.5	0
67	Micromachined gas sensors based on tungsten oxide nanoneedles directly integrated via aerosol assisted CVD. Sensors and Actuators B: Chemical, 2014, 198, 210-218.	4.0	53
68	Physical Activity and Exercise. Diabetes Technology and Therapeutics, 2014, 16, S-92-S-99.	2.4	1
69	Obesity rather than regional fat depots marks the metabolomic pattern of adipose tissue: An untargeted metabolomic approach. Obesity, 2014, 22, 698-704.	1.5	28
70	Focus: A Robust Workflow for One-Dimensional NMR Spectral Analysis. Analytical Chemistry, 2014, 86, 1160-1169.	3.2	36
71	Integrative analysis reveals novel pathways mediating the interaction between adipose tissue and pancreatic islets in obesity in rats. Diabetologia, 2014, 57, 1219-1231.	2.9	7
72	AA-CVD growth and ethanol sensing properties of pure and metal decorated WO<SUB align="right">3 nanoneedles. International Journal of Nanotechnology, 2013, 10, 455.	0.1	4

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73	Human serum/plasma lipoprotein analysis by NMR: Application to the study of diabetic dyslipidemia. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 70, 1-24.	3.9	55
74	Use of multivariate chemometric algorithms on 1H NMR data to assess a soluble fiber (Plantago ovata) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.8	5
75	A 1H NMR metabolic profiling to the assessment of protein tyrosine phosphatase 1B role in liver regeneration after partial hepatectomy. Biochimie, 2013, 95, 808-816.	1.3	10
76	Gas phase micro-preconcentrators for benzene monitoring: A review. Sensors and Actuators B: Chemical, 2013, 176, 198-210.	4.0	40
77	Biomarkers of food intake and metabolite differences between plasma and red blood cell matrices; a human metabolomic profile approach. Molecular BioSystems, 2013, 9, 1411.	2.9	23
78	Singleâ€Step Deposition of Auâ€and Ptâ€Nanoparticleâ€Functionalized Tungsten Oxide Nanoneedles Synthesized Via Aerosolâ€Assisted CVD, and Used for Fabrication of Selective Gas Microsensor Arrays. Advanced Functional Materials, 2013, 23, 1313-1322.	7.8	143
79	MEMS-microhotplate-based hydrogen gas sensor utilizing the nanostructured porous-anodic-alumina-supported WO3 active layer. International Journal of Hydrogen Energy, 2013, 38, 8011-8021.	3.8	33
80	Nutri-Metabolomics: Subtle Serum Metabolic Differences in Healthy Subjects by NMR-Based Metabolomics after a Short-Term Nutritional Intervention with Two Tomato Sauces. OMICS A Journal of Integrative Biology, 2013, 17, 611-618.	1.0	21
81	CO and H2 Sensing with CVD-Grown Tungsten Oxide Nanoneedles Decorated with Au, Pt or Cu Nanoparticles. Procedia Engineering, 2012, 47, 904-907.	1.2	7
82	Benzene detection on nanostructured tungsten oxide MEMS based gas sensors. , 2012, , .		1
83	Nanostructure Initiator Mass Spectrometry for tissue imaging in metabolomics: Future prospects and perspectives. Journal of Proteomics, 2012, 75, 5061-5068.	1.2	36
84	¹Hâ€NMRâ€based metabolomic analysis of the effect of moderate wine consumption on subjects with cardiovascular risk factors. Electrophoresis, 2012, 33, 2345-2354.	1.3	56
85	Metabolic Heterogeneity in Polycystic Ovary Syndrome Is Determined by Obesity: Plasma Metabolomic Approach Using GC-MS. Clinical Chemistry, 2012, 58, 999-1009.	1.5	94
86	Metabolomics Approach for Analyzing the Effects of Exercise in Subjects with Type 1 Diabetes Mellitus. PLoS ONE, 2012, 7, e40600.	1.1	66
87	Assessment of Compatibility between Extraction Methods for NMR- and LC/MS-Based Metabolomics. Analytical Chemistry, 2012, 84, 5838-5844.	3.2	86
88	A planar micro-concentrator/injector for low power consumption microchromatographic analysis of benzene and 1,3 butadiene. Microsystem Technologies, 2012, 18, 489-495.	1.2	1
89	Gold clusters on WO3 nanoneedles grown via AACVD: XPS and TEM studies. Materials Chemistry and Physics, 2012, 134, 809-813.	2.0	83
90	Important considerations for effective gas sensors based on metal oxide nanoneedles films. Sensors and Actuators B: Chemical, 2012, 161, 406-413.	4.0	39

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91	Particle size measurement of lipoprotein fractions using diffusion-ordered NMR spectroscopy. Analytical and Bioanalytical Chemistry, 2012, 402, 2407-2415.	1.9	27
92	Au nanoparticle-functionalised WO₃nanoneedles and their application in high sensitivity gas sensor devices. Chemical Communications, 2011, 47, 565-567.	2.2	204
93	Development of a gas pre-concentrator based on carbon nanotubes for benzene detection. Procedia Engineering, 2011, 25, 239-242.	1.2	9
94	WO3 nano-needles by Aerosol Assisted CVD for optical sensing. Procedia Engineering, 2011, 25, 761-764.	1.2	1
95	Metabolomics Reveals Reduction of Metabolic Oxidation in Women with Polycystic Ovary Syndrome after Pioglitazone-Flutamide-Metformin Polytherapy. PLoS ONE, 2011, 6, e29052.	1.1	41
96	Surface fitting of 2D diffusion-edited 1H NMR spectroscopy data for the characterisation of human plasma lipoproteins. Metabolomics, 2011, 7, 572-582.	1.4	25
97	Aerosolâ€Assisted CVD of SnO₂ Thin Films for Gasâ€Sensor Applications. Chemical Vapor Deposition, 2011, 17, 247-252.	1.4	25
98	Preparation and characterisation of a planar pre-concentrator for benzene based on different activated carbon materials deposited by air-brushing. Sensors and Actuators B: Chemical, 2011, 154, 213-219.	4.0	7
99	Towards a GC-based microsystem for benzene and 1,3 butadiene detection: Pre-concentrator characterization. Sensors and Actuators B: Chemical, 2011, 156, 680-688.	4.0	19
100	Chromatographic air analyser microsystem for the selective and sensitive detection of atmospheric pollutants. Journal of Physics: Conference Series, 2011, 307, 012053.	0.3	0
101	A Supervised Feature Extraction Method For GC-MS Data Based On PLS. Application To Olive Oil Adulteration Detection. , 2011, , .		0
102	AStream: an R package for annotating LC/MS metabolomic data. Bioinformatics, 2011, 27, 1339-1340.	1.8	46
103	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.	4.0	10
104	Characterization and gas sesing properties of intrinsic and Au-doped WO3 nanostuctures deposited by AACVD technique. Procedia Engineering, 2010, 5, 131-134.	1.2	7
105	Metabolomic Assessment of the Effect of Dietary Cholesterol in the Progressive Development of Fatty Liver Disease. Journal of Proteome Research, 2010, 9, 2527-2538.	1.8	141
106	MS-Electronic Nose Performance Improvement Using GC Retention Times And 2-Way And 3-Way Data Processing Methods. , 2009, , .		0
107	The Influence of Wide Range Humidity on Hydrogen Detection with Sensors Based on Nano-SnO[sub 2] Materials. , 2009, , .		2
108	Potential application of the electronic nose for shelf-life determination of raw milk and red meat. , 2009, , .		5

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109	A Fuzzy ARTMAP Approach To The Incorporation Of Chromatographic Retention Time Information To An MS Based E-Nose. , 2009, , .		0
110	An electronic nose system based on a micro-machined gas sensor array to assess the freshness of sardines. Sensors and Actuators B: Chemical, 2009, 141, 538-543.	4.0	97
111	Micro-machined WO3-based sensors with improved characteristics. Sensors and Actuators B: Chemical, 2009, 140, 356-362.	4.0	19
112	Mercury optical fibre probe based on a modified cladding of sensitised Al2O3 nano-particles. Sensors and Actuators B: Chemical, 2009, 143, 103-110.	4.0	9
113	Fabrication and mass spectrometry characterization of a planar pre-concentrator for benzene based on different airbrushed activated carbon materials. Procedia Chemistry, 2009, 1, 987-990.	0.7	0
114	Multivariate calibration analysis of colorimetric mercury sensing using a molecular probe. Analytica Chimica Acta, 2009, 633, 173-180.	2.6	5
115	Metabolic phenotyping of genetically modified mice: An NMR metabonomic approachâ˜†. Biochimie, 2009, 91, 1053-1057.	1.3	23
116	WO<inf>3</inf> nanorods on Si by anodising A1/W/Ti laers. , 2009, , .		0
117	A H<inf>2</inf> microsensor based on nanocolumnar tungsten oxide grown by template-assisted anodization. , 2009, , .		3
118	Tin Oxide from Organo-Metallic Compounds: Materialâ€™S Properties and Sensor Characteristics. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 93-103.	0.1	1
119	Sub-ppm gas sensor detection via spiral Î¼-preconcentrator. Sensors and Actuators B: Chemical, 2008, 132, 149-154.	4.0	49
120	Influence of the internal gas flow distribution on the efficiency of a Î¼-preconcentrator. Sensors and Actuators B: Chemical, 2008, 135, 52-56.	4.0	7
121	Thermal desorption pre-concentrator based system to assess carbon dioxide contamination by benzene. Sensors and Actuators B: Chemical, 2008, 131, 85-92.	4.0	14
122	Fabrication and characterisation of microporous activated carbon-based pre-concentrators for benzene vapours. Sensors and Actuators B: Chemical, 2008, 132, 90-98.	4.0	39
123	Micro-machined WO3-based sensors selective to oxidizing gases. Sensors and Actuators B: Chemical, 2008, 132, 209-215.	4.0	77
124	Application of a portable electronic nose system to assess the freshness of Moroccan sardines. Materials Science and Engineering C, 2008, 28, 666-670.	3.8	69
125	Templated growth of tungsten oxide micro/nanostructures using aerosol assisted chemical vapour deposition. Materials Letters, 2008, 62, 4582-4584.	1.3	26
126	Nanostructured Columnlike Tungsten Oxide Film by Anodizing Al/W/Ti Layers on Si. Chemistry of Materials, 2008, 20, 6482-6493.	3.2	67

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127	Evolution of Surface Morphology, Crystallite Size, and Texture of WO[sub 3] Layers Sputtered onto Si-Supported Nanoporous Alumina Templates. Journal of the Electrochemical Society, 2008, 155, K116.	1.3	30
128	Electronic Nose Based on Metal Oxide Semiconductor Sensors as an Alternative Technique for the Spoilage Classification of Red Meat. Sensors, 2008, 8, 142-156.	2.1	146
129	Preconcentrator-based sensor Ã‚Âµ-system for low-level benzene detection. Proceedings of SPIE, 2008, , .	0.8	0
130	Highly Selective NO[sub 2] Gas Sensors Made of MWCNTs and WO[sub 3] Hybrid Layers. Journal of the Electrochemical Society, 2007, 154, J141.	1.3	16
131	New TiO2 and Carbon Nanotube Hybrid Microsensors for Detecting Traces of O2 in Beverage Grade CO2. , 2007, , .		1
132	Spiral μ-preconcentrator for gas sensor detection in the ppb range. Proceedings of IEEE Sensors, 2007, , .	1.0	0
133	Silicon μ-preconcentrator for improved gas detection. , 2007, , .		0
134	Development and Optimization of Pre-Concentrator for Enhanced Benzene Detection. , 2007, , .		0
135	Technology of metal oxide thin film deposition with interruptions. Surface and Coatings Technology, 2007, 202, 453-459.	2.2	7
136	Efficient feature selection for mass spectrometry based electronic nose applications. Chemometrics and Intelligent Laboratory Systems, 2007, 85, 253-261.	1.8	44
137	Feature extraction of metal oxide gas sensors using dynamic moments. Sensors and Actuators B: Chemical, 2007, 122, 219-226.	4.0	43
138	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.	4.0	68
139	Gas sensing properties of WO3 thin films deposited by rf sputtering. Sensors and Actuators B: Chemical, 2007, 126, 400-405.	4.0	31
140	Ozone monitoring by micro-machined sensors with WO3 sensing films. Sensors and Actuators B: Chemical, 2007, 126, 573-578.	4.0	53
141	Thick film titania sensors for detecting traces of oxygen. Sensors and Actuators B: Chemical, 2007, 127, 567-579.	4.0	46
142	Building of a metal oxide gas sensor-based electronic nose to assess the freshness of sardines under cold storage. Sensors and Actuators B: Chemical, 2007, 128, 235-244.	4.0	78
143	Improvement of the gas sensor response via silicon Î¼-preconcentrator. Sensors and Actuators B: Chemical, 2007, 127, 288-294.	4.0	23
144	Hybrid metal oxide and multiwall carbon nanotube films for low temperature gas sensing. Sensors and Actuators B: Chemical, 2007, 127, 137-142.	4.0	100

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145	Use of a MS-electronic nose for prediction of early fungal spoilage of bakery products. International Journal of Food Microbiology, 2007, 114, 10-16.	2.1	32
146	Variable selection for support vector machine based multisensor systems. Sensors and Actuators B: Chemical, 2007, 122, 259-268.	4.0	50
147	Influence of the doping material on the benzene detection. , 2006, , .		1
148	Monitoring the Freshness of Moroccan Sardines with a Neural-Network Based Electronic Nose. Sensors, 2006, 6, 1209-1223.	2.1	34
149	Anodic formation of low-aspect-ratio porous alumina films for metal-oxide sensor application. Electrochimica Acta, 2006, 52, 1771-1780.	2.6	72
150	Oxygen functionalisation of MWNT and their use as gas sensitive thick-film layers. Sensors and Actuators B: Chemical, 2006, 113, 36-46.	4.0	155
151	Sensitivity and selectivity improvement of rf sputtered WO3 microhotplate gas sensors. Sensors and Actuators B: Chemical, 2006, 113, 241-248.	4.0	101
152	WO3 films modified with functionalised multi-wall carbon nanotubes: Morphological, compositional and gas response studies. Sensors and Actuators B: Chemical, 2006, 115, 33-41.	4.0	124
153	Tungsten trioxide sensing layers on highly ordered nanoporous alumina template. Sensors and Actuators B: Chemical, 2006, 118, 255-262.	4.0	35
154	On the effects of the materials and the noble metal additives to NO2 detection. Sensors and Actuators B: Chemical, 2006, 118, 311-317.	4.0	30
155	On-line monitoring of CO2 quality using doped WO3 thin film sensors. Thin Solid Films, 2006, 500, 302-308.	0.8	41
156	Coupling fast variable selection methods to neural network-based classifiers: Application to multisensor systems. Sensors and Actuators B: Chemical, 2006, 114, 522-529.	4.0	23
157	FORMATION OF NANOPOROUS ALUMINA FILMS WITH TUNGSTEN TRIOXIDE SENSING LAYERS. , 2005, , .		0
158	Influence of the annealing and operating temperatures on the gas-sensing properties of rf sputtered WO3 thin-film sensors. Sensors and Actuators B: Chemical, 2005, 105, 271-277.	4.0	135
159	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.	4.0	15
160	New technology of metal oxide thin film preparation for chemical sensor application. Sensors and Actuators B: Chemical, 2005, 109, 128-134.	4.0	22
161	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.	4.0	34
162	Gas sensing properties of nanoparticle indium-doped WO3 thick films. Sensors and Actuators B: Chemical, 2005, 111-112, 45-51.	4.0	47

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163	Towards a micro-system for monitoring ethylene in warehouses. Sensors and Actuators B: Chemical, 2005, 111-112, 63-70.	4.0	59
164	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.	4.0	53
165	SOI-CMOS compatible low-power gas sensor using sputtered and drop-coated metal-oxide active layers. Microsystem Technologies, 2005, 12, 160-168.	1.2	12
166	X-ray investigations of nanopowder WO3 thick films. Physica Status Solidi A, 2005, 202, 1973-1979.	1.7	7
167	Evaluation of an electronic nose to assess fruit ripeness. IEEE Sensors Journal, 2005, 5, 97-108.	2.4	90
168	An unsupervised dimensionality-reduction technique. , 2005, , .		1
169	Optimized temperature modulation of micro-hotplate gas sensors through pseudorandom binary sequences. IEEE Sensors Journal, 2005, 5, 1369-1378.	2.4	38
170	Nanoparticle metal-oxide films for micro-hotplate-based gas sensor systems. IEEE Sensors Journal, 2005, 5, 798-809.	2.4	20
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