Xavier Correig

List of Publications by Year in Descending Order

189 papers	5,834 citations	43 h-index	65 g-index
214 ext. papers	6,636 ext. citations	6 avg, IF	5.34 L-index

#	Paper	IF	Citations
189	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	3.4	
188	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	6.8	1
187	Perspective on Multimodal Imaging Techniques Coupling Mass Spectrometry and Vibrational Spectroscopy: Picturing the Best of Both Worlds. *Analytical Chemistry*, **2021**, 93, 6301-6310	7.8	5
186	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	2.9	3
185	Unravelling the metabolic alterations of liver damage induced by thirdhand smoke. *Environment International*, **2021**, 146, 106242	12.9	2
184	Acute-phase glycoprotein profile responses to different oral macronutrient challenges: Influence of sex, functional hyperandrogenism and obesity. *Clinical Nutrition*, **2021**, 40, 1241-1246	5.9	0
183	rMSIannotation: A peak annotation tool for mass spectrometry imaging based on the analysis of isotopic intensity ratios. *Analytica Chimica Acta*, **2021**, 1171, 338669	6.6	3
182	Gelsolin: a new biomarker of disease activity in SLE patients associated with HDL-c. *Rheumatology*, **2020**, 59, 650-661	3.9	2
181	Glycoprotein Profile Assessed by H-NMR as a Global Inflammation Marker in Patients with HIV Infection. A Prospective Study. *Journal of Clinical Medicine*, **2020**, 9,	5.1	4
180	Gold Nanoparticle-Assisted Black Silicon Substrates for Mass Spectrometry Imaging Applications. *ACS Nano*, **2020**, 14, 6785-6794	16.7	21
179	Habitual Fish Consumption, n-3 Fatty Acids, and Nuclear Magnetic Resonance Lipoprotein Subfractions in Women. *Journal of the American Heart Association*, **2020**, 9, e014963	6	5
178	Title: Human Serum/Plasma Glycoprotein Analysis by H-NMR, an Emerging Method of Inflammatory Assessment. *Journal of Clinical Medicine*, **2020**, 9,	5.1	29
177	rMSIproc: an R package for mass spectrometry imaging data processing. *Bioinformatics*, **2020**, 36, 3618-3619	7.1	10
176	Plasma glucose, triglycerides, VLDL, leptin and resistin levels as potential biomarkers for myocardial fat in mice. *Clínica E Investigación En Arteriosclerosis*, **2020**, 32, 8-14	1.4	4
175	Raman2imzML converts Raman imaging data into the standard mass spectrometry imaging format. *BMC Bioinformatics*, **2020**, 21, 448	3.6	4
174	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	8.6	1
173	Hepatic Lipidomics and Molecular Imaging in a Murine Non-Alcoholic Fatty Liver Disease Model: Insights into Molecular Mechanisms. *Biomolecules*, **2020**, 10,	5.9	4

172	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	12.7	15
171	Biological Response to Meal Ingestion: Gender Differences. *Nutrients*, **2019**, 11,	6.7	10
170	rMSIKeyIon: An Ion Filtering R Package for Untargeted Analysis of Metabolomic LDI-MS Images. *Metabolites*, **2019**, 9,	5.6	2
169	Serum Paraoxonase-1-Related Variables and Lipoprotein Profile in Patients with Lung or Head and Neck Cancer: Effect of Radiotherapy. *Antioxidants*, **2019**, 8,	7.1	5
168	HDL Triglycerides: A New Marker of Metabolic and Cardiovascular Risk. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	21
167	Silicon-Based Laser Desorption Ionization Mass Spectrometry for the Analysis of Biomolecules: A Progress Report. *Advanced Functional Materials*, **2019**, 29, 1903609	15.6	23
166	Lipid Profiling Using H NMR Spectroscopy. *Methods in Molecular Biology*, **2019**, 2037, 35-47	1.4	6
165	Meal Enjoyment and Tolerance in Women and Men. *Nutrients*, **2019**, 11,	6.7	7
164	rDolphin: a GUI R package for proficient automatic profiling of 1D H-NMR spectra of study datasets. *Metabolomics*, **2018**, 14, 24	4.7	35
163	Novel automated workflow for spectral alignment and mass calibration in MS imaging using a sputtered Ag nanolayer. *Analytica Chimica Acta*, **2018**, 1022, 61-69	6.6	18
162	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	3.5	14
161	LipSpin: A New Bioinformatics Tool for Quantitative H NMR Lipid Profiling. *Analytical Chemistry*, **2018**, 90, 2031-2040	7.8	26
160	Signal preprocessing, multivariate analysis and software tools for MA(LDI)-TOF mass spectrometry imaging for biological applications. *Mass Spectrometry Reviews*, **2018**, 37, 281-306	11	39
159	Metabolomic signature of the postprandial experience. *Neurogastroenterology and Motility*, **2018**, 30, e13447	4	4
158	Improving sample classification by harnessing the potential of H-NMR signal chemical shifts. *Scientific Reports*, **2018**, 8, 11886	4.9	3
157	Assessing the potential of sputtered gold nanolayers in mass spectrometry imaging for metabolomics applications. *PLoS ONE*, **2018**, 13, e0208908	3.7	17
156	Biomarkers of Exposure to Secondhand and Thirdhand Tobacco Smoke: Recent Advances and Future Perspectives. *International Journal of Environmental Research and Public Health*, **2018**, 15,	4.6	53
155	Metabolomic Response to Acute Hypoxic Exercise and Recovery in Adult Males. *Frontiers in Physiology*, **2018**, 9, 1682	4.6	11

154	Characterization of H NMR Plasma Glycoproteins as a New Strategy To Identify Inflammatory Patterns in Rheumatoid Arthritis. *Journal of Proteome Research*, **2018**, 17, 3730-3739	5.6	23
153	Effect of pistachio consumption on the modulation of urinary gut microbiota-related metabolites in prediabetic subjects. *Journal of Nutritional Biochemistry*, **2017**, 45, 48-53	6.3	37
152	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	5.2	7
151	rMSI: an R package for MS imaging data handling and visualization. *Bioinformatics*, **2017**, 33, 2427-2428	7.2	23
150	Unravelling and Quantifying the "NMR-Invisible" Metabolites Interacting with Human Serum Albumin by Binding Competition and T2 Relaxation-Based Decomposition Analysis. *Journal of Proteome Research*, **2017**, 16, 1847-1856	5.6	9
149	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	12.7	9
148	Metabolomics reveals novel blood plasma biomarkers associated to the BRCA1-mutated phenotype of human breast cancer. *Scientific Reports*, **2017**, 7, 17831	4.9	24
147	Dietary proanthocyanidins boost hepatic NAD(+) metabolism and SIRT1 expression and activity in a dose-dependent manner in healthy rats. *Scientific Reports*, **2016**, 6, 24977	4.9	31
146	Lipoprotein hydrophobic core lipids are partially extruded to surface in smaller HDL: "Herniated" HDL, a common feature in diabetes. *Scientific Reports*, **2016**, 6, 19249	4.9	18
145	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	7.8	68
144	Urine metabolome profiling of immune-mediated inflammatory diseases. *BMC Medicine*, **2016**, 14, 133	11.4	67
143	Compound identification in gas chromatography/mass spectrometry-based metabolomics by blind source separation. *Journal of Chromatography A*, **2015**, 1409, 226-33	4.5	21
142	Liposcale: a novel advanced lipoprotein test based on 2D diffusion-ordered 1H NMR spectroscopy. *Journal of Lipid Research*, **2015**, 56, 737-746	6.3	90
141	Design and evaluation of standard lipid prediction models based on 1H-NMR spectroscopy of human serum/plasma samples. *Metabolomics*, **2015**, 11, 1394-1404	4.7	2
140	Remarkable quantitative and qualitative differences in HDL after niacin or fenofibrate therapy in type 2 diabetic patients. *Atherosclerosis*, **2015**, 238, 213-9	3.1	15
139	Identification of endogenous metabolites in human sperm cells using proton nuclear magnetic resonance ((1) H-NMR) spectroscopy and gas chromatography-mass spectrometry (GC-MS). *Andrology*, **2015**, 3, 496-505	4.2	37
138	Metabolomics reveals impaired maturation of HDL particles in adolescents with hyperinsulinaemic androgen excess. *Scientific Reports*, **2015**, 5, 11496	4.9	10
137	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	0.4	2

136	Effect of pistachio consumption on plasma lipoprotein subclasses in pre-diabetic subjects. *Nutrition, Metabolism and Cardiovascular Diseases*, **2015**, 25, 396-402	4.5	21
135	Improving Assessment of Lipoprotein Profile in Type 1 Diabetes by 1H NMR Spectroscopy. *PLoS ONE*, **2015**, 10, e0136348	3.7	9
134	Liver fat deposition and mitochondrial dysfunction in morbid obesity: An approach combining metabolomics with liver imaging and histology. *World Journal of Gastroenterology*, **2015**, 21, 7529-44	5.6	28
133	Micromachined gas sensors based on tungsten oxide nanoneedles directly integrated via aerosol assisted CVD. *Sensors and Actuators B: Chemical*, **2014**, 198, 210-218	8.5	47
132	Physical activity and exercise. *Diabetes Technology and Therapeutics*, **2014**, 16 Suppl 1, S92-9	8.1	1
131	Obesity rather than regional fat depots marks the metabolomic pattern of adipose tissue: an untargeted metabolomic approach. *Obesity*, **2014**, 22, 698-704	8	23
130	Focus: a robust workflow for one-dimensional NMR spectral analysis. *Analytical Chemistry*, **2014**, 86, 1160-9	7.9	33
129	Integrative analysis reveals novel pathways mediating the interaction between adipose tissue and pancreatic islets in obesity in rats. *Diabetologia*, **2014**, 57, 1219-31	10.3	6
128	Dolphin: a tool for automatic targeted metabolite profiling using 1D and 2D (1)H-NMR data. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 7967-76	4.4	40
127	OP0189 Identification of Disease Diagnostic and Disease Activity Metabolomic Biomarkers in Immune-Mediated Inflammatory Diseases. *Annals of the Rheumatic Diseases*, **2014**, 73, 134.1-134	2.4	
126	AA-CVD growth and ethanol sensing properties of pure and metal decorated WO3 nanoneedles. *International Journal of Nanotechnology*, **2013**, 10, 455	1.5	2
125	Human serum/plasma lipoprotein analysis by NMR: application to the study of diabetic dyslipidemia. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2013**, 70, 1-24	10.4	42
124	Use of multivariate chemometric algorithms on 1H NMR data to assess a soluble fiber (Plantago ovata husk) nutritional intervention. *Chemometrics and Intelligent Laboratory Systems*, **2013**, 121, 1-8	3.8	5
123	A (1)H NMR metabolic profiling to the assessment of protein tyrosine phosphatase 1B role in liver regeneration after partial hepatectomy. *Biochimie*, **2013**, 95, 808-16	4.6	9
122	Gas phase micro-preconcentrators for benzene monitoring: A review. *Sensors and Actuators B: Chemical*, **2013**, 176, 198-210	8.5	26
121	Biomarkers of food intake and metabolite differences between plasma and red blood cell matrices; a human metabolomic profile approach. *Molecular BioSystems*, **2013**, 9, 1411-22		21
120	Single-Step Deposition of Au- and Pt-Nanoparticle-Functionalized Tungsten Oxide Nanoneedles Synthesized Via Aerosol-Assisted CVD, and Used for Fabrication of Selective Gas Microsensor Arrays. *Advanced Functional Materials*, **2013**, 23, 1313-1322	15.6	119
119	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	6.7	28

118	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, 611-8	3.8	19
117	Gold clusters on WO3 nanoneedles grown via AACVD: XPS and TEM studies. *Materials Chemistry and Physics*, **2012**, 134, 809-813	4.4	63
116	Important considerations for effective gas sensors based on metal oxide nanoneedles films. *Sensors and Actuators B: Chemical*, **2012**, 161, 406-413	8.5	34
115	Particle size measurement of lipoprotein fractions using diffusion-ordered NMR spectroscopy. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 2407-15	4.4	23
114	CO and H2 Sensing with CVD-Grown Tungsten Oxide Nanoneedles Decorated with Au, Pt or Cu Nanoparticles. *Procedia Engineering*, **2012**, 47, 904-907		3
113	Nanostructure Initiator Mass Spectrometry for tissue imaging in metabolomics: future prospects and perspectives. *Journal of Proteomics*, **2012**, 75, 5061-5068	3.9	35
112	(1)H-NMR-based metabolomic analysis of the effect of moderate wine consumption on subjects with cardiovascular risk factors. *Electrophoresis*, **2012**, 33, 2345-54	3.6	50
111	Metabolic heterogeneity in polycystic ovary syndrome is determined by obesity: plasma metabolomic approach using GC-MS. *Clinical Chemistry*, **2012**, 58, 999-1009	5.5	72
110	Metabolomics approach for analyzing the effects of exercise in subjects with type 1 diabetes mellitus. *PLoS ONE*, **2012**, 7, e40600	3.7	54
109	Assessment of compatibility between extraction methods for NMR- and LC/MS-based metabolomics. *Analytical Chemistry*, **2012**, 84, 5838-44	7.8	69
108	A planar micro-concentrator/injector for low power consumption microchromatographic analysis of benzene and 1,3 butadiene. *Microsystem Technologies*, **2012**, 18, 489-495	1.7	1
107	Au nanoparticle-functionalised WO3 nanoneedles and their application in high sensitivity gas sensor devices. *Chemical Communications*, **2011**, 47, 565-7	5.8	183
106	Development of a gas pre-concentrator based on carbon nanotubes for benzene detection. *Procedia Engineering*, **2011**, 25, 239-242		9
105	WO3 nano-needles by Aerosol Assisted CVD for optical sensing. *Procedia Engineering*, **2011**, 25, 761-764		1
104	Metabolomics reveals reduction of metabolic oxidation in women with polycystic ovary syndrome after pioglitazone-flutamide-metformin polytherapy. *PLoS ONE*, **2011**, 6, e29052	3.7	34
103	Surface fitting of 2D diffusion-edited 1H NMR spectroscopy data for the characterisation of human plasma lipoproteins. *Metabolomics*, **2011**, 7, 572-582	4.7	21
102	Aerosol-Assisted CVD of SnO2 Thin Films for Gas-Sensor Applications. *Chemical Vapor Deposition*, **2011**, 17, 247-252		22
101	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	8.5	6

100	Towards a GC-based microsystem for benzene and 1,3 butadiene detection: Pre-concentrator characterization. *Sensors and Actuators B: Chemical*, **2011**, 156, 680-688	8.5	15
99	Chromatographic air analyser microsystem for the selective and sensitive detection of atmospheric pollutants. *Journal of Physics: Conference Series*, **2011**, 307, 012053	0.3	
98	AStream: an R package for annotating LC/MS metabolomic data. *Bioinformatics*, **2011**, 27, 1339-40	7.2	41
97	Metabolomic assessment of the effect of dietary cholesterol in the progressive development of fatty liver disease. *Journal of Proteome Research*, **2010**, 9, 2527-38	5.6	107
96	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	8.5	10
95	Characterization and gas sesing properties of intrinsic and Au-doped WO3 nanostuctures deposited by AACVD technique. *Procedia Engineering*, **2010**, 5, 131-134		7
94	The Influence of Wide Range Humidity on Hydrogen Detection with Sensors Based on Nano-SnO2 Materials **2009**,		2
93	Potential application of the electronic nose for shelf-life determination of raw milk and red meat **2009**,		4
92	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	8.5	79
91	Micro-machined WO3-based sensors with improved characteristics. *Sensors and Actuators B: Chemical*, **2009**, 140, 356-362	8.5	15
90	Mercury optical fibre probe based on a modified cladding of sensitised Al2O3 nano-particles. *Sensors and Actuators B: Chemical*, **2009**, 143, 103-110	8.5	9
89	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		
88	Multivariate calibration analysis of colorimetric mercury sensing using a molecular probe. *Analytica Chimica Acta*, **2009**, 633, 173-80	6.6	4
87	Metabolic phenotyping of genetically modified mice: An NMR metabonomic approach. *Biochimie*, **2009**, 91, 1053-7	4.6	21
86	Tin Oxide from Organo-Metallic Compounds: Materials Properties and Sensor Characteristics. *NATO Science for Peace and Security Series C: Environmental Security*, **2009**, 93-103	0.3	1
85	Templated growth of tungsten oxide micro/nanostructures using aerosol assisted chemical vapour deposition. *Materials Letters*, **2008**, 62, 4582-4584	3.3	22
84	Nanostructured Columnlike Tungsten Oxide Film by Anodizing Al/W/Ti Layers on Si. *Chemistry of Materials*, **2008**, 20, 6482-6493	9.6	58
83	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	3.9	24

82	Electronic Nose Based on Metal Oxide Semiconductor Sensors as an Alternative Technique for the Spoilage Classification of Red Meat. *Sensors*, **2008**, 8, 142-156	3.8	120
81	Sub-ppm gas sensor detection via spiral preconcentrator. *Sensors and Actuators B: Chemical*, **2008**, 132, 149-154	8.5	43
80	Influence of the internal gas flow distribution on the efficiency of a preconcentrator. *Sensors and Actuators B: Chemical*, **2008**, 135, 52-56	8.5	6
79	Thermal desorption pre-concentrator based system to assess carbon dioxide contamination by benzene. *Sensors and Actuators B: Chemical*, **2008**, 131, 85-92	8.5	12
78	Fabrication and characterisation of microporous activated carbon-based pre-concentrators for benzene vapours. *Sensors and Actuators B: Chemical*, **2008**, 132, 90-98	8.5	32
77	Micro-machined WO3-based sensors selective to oxidizing gases. *Sensors and Actuators B: Chemical*, **2008**, 132, 209-215	8.5	68
76	Application of a portable electronic nose system to assess the freshness of Moroccan sardines. *Materials Science and Engineering C*, **2008**, 28, 666-670	8.3	61
75	Technology of metal oxide thin film deposition with interruptions. *Surface and Coatings Technology*, **2007**, 202, 453-459	4.4	6
74	Efficient feature selection for mass spectrometry based electronic nose applications. *Chemometrics and Intelligent Laboratory Systems*, **2007**, 85, 253-261	3.8	35
73	Feature extraction of metal oxide gas sensors using dynamic moments. *Sensors and Actuators B: Chemical*, **2007**, 122, 219-226	8.5	33
72	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	8.5	54
71	Gas sensing properties of WO3 thin films deposited by rf sputtering. *Sensors and Actuators B: Chemical*, **2007**, 126, 400-405	8.5	29
70	Ozone monitoring by micro-machined sensors with WO3 sensing films. *Sensors and Actuators B: Chemical*, **2007**, 126, 573-578	8.5	44
69	Thick film titania sensors for detecting traces of oxygen. *Sensors and Actuators B: Chemical*, **2007**, 127, 567-579	8.5	40
68	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	8.5	63
67	Improvement of the gas sensor response via silicon preconcentrator. *Sensors and Actuators B: Chemical*, **2007**, 127, 288-294	8.5	23
66	Hybrid metal oxide and multiwall carbon nanotube films for low temperature gas sensing. *Sensors and Actuators B: Chemical*, **2007**, 127, 137-142	8.5	94
65	Use of a MS-electronic nose for prediction of early fungal spoilage of bakery products. *International Journal of Food Microbiology*, **2007**, 114, 10-6	5.8	28

64	Variable selection for support vector machine based multisensor systems. *Sensors and Actuators B: Chemical*, **2007**, 122, 259-268	8.5	46
63	Highly Selective NO[sub 2] Gas Sensors Made of MWCNTs and WO[sub 3] Hybrid Layers. *Journal of the Electrochemical Society*, **2007**, 154, J141	3.9	14
62	Coupling fast variable selection methods to neural network-based classifiers: Application to multisensor systems. *Sensors and Actuators B: Chemical*, **2006**, 114, 522-529	8.5	17
61	Monitoring the Freshness of Moroccan Sardines with a Neural-Network Based Electronic Nose. *Sensors*, **2006**, 6, 1209-1223	3.8	28
60	Anodic formation of low-aspect-ratio porous alumina films for metal-oxide sensor application. *Electrochimica Acta*, **2006**, 52, 1771-1780	6.7	61
59	Oxygen functionalisation of MWNT and their use as gas sensitive thick-film layers. *Sensors and Actuators B: Chemical*, **2006**, 113, 36-46	8.5	139
58	Sensitivity and selectivity improvement of rf sputtered WO3 microhotplate gas sensors. *Sensors and Actuators B: Chemical*, **2006**, 113, 241-248	8.5	84
57	WO3 films modified with functionalised multi-wall carbon nanotubes: Morphological, compositional and gas response studies. *Sensors and Actuators B: Chemical*, **2006**, 115, 33-41	8.5	109
56	Tungsten trioxide sensing layers on highly ordered nanoporous alumina template. *Sensors and Actuators B: Chemical*, **2006**, 118, 255-262	8.5	34
55	On the effects of the materials and the noble metal additives to NO2 detection. *Sensors and Actuators B: Chemical*, **2006**, 118, 311-317	8.5	24
54	On-line monitoring of CO2 quality using doped WO3 thin film sensors. *Thin Solid Films*, **2006**, 500, 302-308	2.2	38
53	Optimized temperature modulation of micro-hotplate gas sensors through pseudorandom binary sequences. *IEEE Sensors Journal*, **2005**, 5, 1369-1378	4	30
52	Nanoparticle metal-oxide films for micro-hotplate-based gas sensor systems. *IEEE Sensors Journal*, **2005**, 5, 798-809	4	13
51	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	26
50	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	8.5	122
49	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	8.5	11
48	New technology of metal oxide thin film preparation for chemical sensor application. *Sensors and Actuators B: Chemical*, **2005**, 109, 128-134	8.5	16
47	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	8.5	30

46	Gas sensing properties of nanoparticle indium-doped WO3 thick films. *Sensors and Actuators B: Chemical*, **2005**, 111-112, 45-51	8.5	41
45	Towards a micro-system for monitoring ethylene in warehouses. *Sensors and Actuators B: Chemical*, **2005**, 111-112, 63-70	8.5	38
44	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	8.5	42
43	SOI-CMOS compatible low-power gas sensor using sputtered and drop-coated metal-oxide active layers. *Microsystem Technologies*, **2005**, 12, 160-168	1.7	11
42	X-ray investigations of nanopowder WO3 thick films. *Physica Status Solidi A*, **2005**, 202, 1973-1979		6
41	Evaluation of an electronic nose to assess fruit ripeness. *IEEE Sensors Journal*, **2005**, 5, 97-108	4	66
40	An unsupervised dimensionality-reduction technique **2005**,		1
39	Influence of the doping method on the sensitivity of Pt-doped screen-printed SnO2 sensors. *Sensors and Actuators B: Chemical*, **2004**, 97, 67-73	8.5	51
38	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	8.5	30
37	Detection of SO2 and H2S in CO2 stream by means of WO3-based micro-hotplate sensors. *Sensors and Actuators B: Chemical*, **2004**, 102, 219-225	8.5	55
36	Development of high sensitivity ethanol gas sensors based on Pt-doped SnO2 surfaces. *Sensors and Actuators B: Chemical*, **2004**, 99, 201-206	8.5	117
35	A route toward more selective and less humidity sensitive screen-printed SnO2 and WO3 gas sensitive layers. *Sensors and Actuators B: Chemical*, **2004**, 100, 221-227	8.5	41
34	Pt-loaded Al2O3 catalytic filters for screen-printed WO3 sensors highly selective to benzene. *Sensors and Actuators B: Chemical*, **2004**, 101, 277-283	8.5	51
33	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	8.5	24
32	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, 6068-74	5.7	44
31	Ag induced modifications on WO3 films studied by AFM, Raman and x-ray photoelectron spectroscopy. *Journal Physics D: Applied Physics*, **2004**, 37, 3383-3391	3	28
30	On-line drift counteraction for metal oxide gas sensor arrays. *Electronics Letters*, **2003**, 39, 40	1.1	5
29	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	8.5	23

28	Screen-printed nanoparticle tin oxide films for high-yield sensor microsystems. *Sensors and Actuators B: Chemical*, **2003**, 96, 94-104	8.5	36
27	Influence of the deposition method on the morphology and elemental composition of SnO2 films for gas sensing: atomic force and X-ray photoemission spectroscopy analysis. *Sensors and Actuators B: Chemical*, **2003**, 92, 67-72	8.5	21
26	Response model for thermally modulated tin oxide-based microhotplate gas sensors. *Sensors and Actuators B: Chemical*, **2003**, 95, 203-211	8.5	43
25	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	8.5	59
24	Effects of Oxygen Partial Pressure and Annealing Temperature on the Formation of Sputtered Tungsten Oxide Films. *Journal of the Electrochemical Society*, **2002**, 149, H81	3.9	41
23	The role of oxygen partial pressure and annealing temperature on the formation of W□O bonds in thin WO3films. *Semiconductor Science and Technology*, **2002**, 17, 522-525	1.8	53
22	Quantitative analysis of NO2 in the presence of CO using a single tungsten oxide semiconductor sensor and dynamic signal processing. *Analyst, The*, **2002**, 127, 1237-46	5	47
21	Electronic nose simulation tool centred on PSpice. *Sensors and Actuators B: Chemical*, **2001**, 76, 419-429	8.5	9
20	Electrical equivalent models of semiconductor gas sensors using PSpice. *Sensors and Actuators B: Chemical*, **2001**, 77, 275-280	8.5	19
19	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	8.5	109
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1	rMSIcleanup: An open-source tool for matrix-related peak annotation in mass spectrometry imaging and its application to silver-assisted laser desorption/ionization		1