

Xavier Correig

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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	Au nanoparticle-functionalised WO ₃ nanoneedles and their application in high sensitivity gas sensor devices. <i>Chemical Communications</i> , 2011 , 47, 565-7	5.8	183
188	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	8.5	145
187	Oxygen functionalisation of MWNT and their use as gas sensitive thick-film layers. <i>Sensors and Actuators B: Chemical</i> , 2006 , 113, 36-46	8.5	139
186	Fabrication of Highly Selective Tungsten Oxide Ammonia Sensors. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 776	3.9	126
185	Influence of the annealing and operating temperatures on the gas-sensing properties of rf sputtered WO ₃ thin-film sensors. <i>Sensors and Actuators B: Chemical</i> , 2005 , 105, 271-277	8.5	122
184	Electronic Nose Based on Metal Oxide Semiconductor Sensors as an Alternative Technique for the Spoilage Classification of Red Meat. <i>Sensors</i> , 2008 , 8, 142-156	3.8	120
183	Fruit ripeness monitoring using an Electronic Nose. <i>Sensors and Actuators B: Chemical</i> , 2000 , 69, 223-229	8.5	120
182	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. <i>Advanced Functional Materials</i> , 2013 , 23, 1313-1322	15.6	119
181	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	8.5	117
180	WO ₃ films modified with functionalised multi-wall carbon nanotubes: Morphological, compositional and gas response studies. <i>Sensors and Actuators B: Chemical</i> , 2006 , 115, 33-41	8.5	109
179	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	8.5	109
178	Metabolomic assessment of the effect of dietary cholesterol in the progressive development of fatty liver disease. <i>Journal of Proteome Research</i> , 2010 , 9, 2527-38	5.6	107
177	Hybrid metal oxide and multiwall carbon nanotube films for low temperature gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2007 , 127, 137-142	8.5	94
176	Liposcale: a novel advanced lipoprotein test based on 2D diffusion-ordered 1H NMR spectroscopy. <i>Journal of Lipid Research</i> , 2015 , 56, 737-746	6.3	90
175	Sensitivity and selectivity improvement of rf sputtered WO ₃ microhotplate gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2006 , 113, 241-248	8.5	84
174	An electronic nose system based on a micro-machined gas sensor array to assess the freshness of sardines. <i>Sensors and Actuators B: Chemical</i> , 2009 , 141, 538-543	8.5	79
173	Metabolic heterogeneity in polycystic ovary syndrome is determined by obesity: plasma metabolomic approach using GC-MS. <i>Clinical Chemistry</i> , 2012 , 58, 999-1009	5.5	72

172	Assessment of compatibility between extraction methods for NMR- and LC/MS-based metabolomics. <i>Analytical Chemistry</i> , 2012 , 84, 5838-44	7.8	69
171	Micro-machined WO ₃ -based sensors selective to oxidizing gases. <i>Sensors and Actuators B: Chemical</i> , 2008 , 132, 209-215	8.5	68
170	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	7.8	68
169	Urine metabolome profiling of immune-mediated inflammatory diseases. <i>BMC Medicine</i> , 2016 , 14, 133	11.4	67
168	Evaluation of an electronic nose to assess fruit ripeness. <i>IEEE Sensors Journal</i> , 2005 , 5, 97-108	4	66
167	Gold clusters on WO ₃ nanoneedles grown via AACVD: XPS and TEM studies. <i>Materials Chemistry and Physics</i> , 2012 , 134, 809-813	4.4	63
166	Building of a metal oxide gas sensor-based electronic nose to assess the freshness of sardines under cold storage. <i>Sensors and Actuators B: Chemical</i> , 2007 , 128, 235-244	8.5	63
165	Application of a portable electronic nose system to assess the freshness of Moroccan sardines. <i>Materials Science and Engineering C</i> , 2008 , 28, 666-670	8.3	61
164	Anodic formation of low-aspect-ratio porous alumina films for metal-oxide sensor application. <i>Electrochimica Acta</i> , 2006 , 52, 1771-1780	6.7	61
163	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	8.5	59
162	Nanostructured Columnlike Tungsten Oxide Film by Anodizing Al/W/Ti Layers on Si. <i>Chemistry of Materials</i> , 2008 , 20, 6482-6493	9.6	58
161	Analysis of the conductance transient in thick-film tin oxide gas sensors. <i>Sensors and Actuators B: Chemical</i> , 1996 , 31, 175-180	8.5	58
160	Detection of SO ₂ and H ₂ S in CO ₂ stream by means of WO ₃ -based micro-hotplate sensors. <i>Sensors and Actuators B: Chemical</i> , 2004 , 102, 219-225	8.5	55
159	Metabolomics approach for analyzing the effects of exercise in subjects with type 1 diabetes mellitus. <i>PLoS ONE</i> , 2012 , 7, e40600	3.7	54
158	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	8.5	54
157	The role of oxygen partial pressure and annealing temperature on the formation of W ₂ O bonds in thin WO ₃ films. <i>Semiconductor Science and Technology</i> , 2002 , 17, 522-525	1.8	53
156	Biomarkers of Exposure to Secondhand and Thirdhand Tobacco Smoke: Recent Advances and Future Perspectives. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	53
155	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	8.5	51

154	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	8.5	51
153	(1)H-NMR-based metabolomic analysis of the effect of moderate wine consumption on subjects with cardiovascular risk factors. <i>Electrophoresis</i> , 2012 , 33, 2345-54	3.6	50
152	Micromachined gas sensors based on tungsten oxide nanoneedles directly integrated via aerosol assisted CVD. <i>Sensors and Actuators B: Chemical</i> , 2014 , 198, 210-218	8.5	47
151	Quantitative analysis of NO ₂ in the presence of CO using a single tungsten oxide semiconductor sensor and dynamic signal processing. <i>Analyst, The</i> , 2002 , 127, 1237-46	5	47
150	Variable selection for support vector machine based multisensor systems. <i>Sensors and Actuators B: Chemical</i> , 2007 , 122, 259-268	8.5	46
149	Ozone monitoring by micro-machined sensors with WO ₃ sensing films. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 573-578	8.5	44
148	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, 6068-74	5.7	44
147	Sub-ppm gas sensor detection via spiral preconcentrator. <i>Sensors and Actuators B: Chemical</i> , 2008 , 132, 149-154	8.5	43
146	Response model for thermally modulated tin oxide-based microhotplate gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2003 , 95, 203-211	8.5	43
145	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	10.4	42
144	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	8.5	42
143	AStream: an R package for annotating LC/MS metabolomic data. <i>Bioinformatics</i> , 2011 , 27, 1339-40	7.2	41
142	A route toward more selective and less humidity sensitive screen-printed SnO ₂ and WO ₃ gas sensitive layers. <i>Sensors and Actuators B: Chemical</i> , 2004 , 100, 221-227	8.5	41
141	Gas sensing properties of nanoparticle indium-doped WO ₃ thick films. <i>Sensors and Actuators B: Chemical</i> , 2005 , 111-112, 45-51	8.5	41
140	Effects of Oxygen Partial Pressure and Annealing Temperature on the Formation of Sputtered Tungsten Oxide Films. <i>Journal of the Electrochemical Society</i> , 2002 , 149, H81	3.9	41
139	Dolphin: a tool for automatic targeted metabolite profiling using 1D and 2D (1)H-NMR data. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 7967-76	4.4	40
138	Thick film titania sensors for detecting traces of oxygen. <i>Sensors and Actuators B: Chemical</i> , 2007 , 127, 567-579	8.5	40
137	Signal preprocessing, multivariate analysis and software tools for MA(LDI)-TOF mass spectrometry imaging for biological applications. <i>Mass Spectrometry Reviews</i> , 2018 , 37, 281-306	11	39

136	Neural network based electronic nose for the classification of aromatic species. <i>Analytica Chimica Acta</i> , 1997 , 348, 503-509	6.6	38
135	On-line monitoring of CO ₂ quality using doped WO ₃ thin film sensors. <i>Thin Solid Films</i> , 2006 , 500, 302-308	8.5	38
134	Towards a micro-system for monitoring ethylene in warehouses. <i>Sensors and Actuators B: Chemical</i> , 2005 , 111-112, 63-70	8.5	38
133	Effect of pistachio consumption on the modulation of urinary gut microbiota-related metabolites in prediabetic subjects. <i>Journal of Nutritional Biochemistry</i> , 2017 , 45, 48-53	6.3	37
132	Identification of endogenous metabolites in human sperm cells using proton nuclear magnetic resonance ((¹ H-NMR) spectroscopy and gas chromatography-mass spectrometry (GC-MS). <i>Andrology</i> , 2015 , 3, 496-505	4.2	37
131	Screen-printed nanoparticle tin oxide films for high-yield sensor microsystems. <i>Sensors and Actuators B: Chemical</i> , 2003 , 96, 94-104	8.5	36
130	rDolphin: a GUI R package for proficient automatic profiling of 1D H-NMR spectra of study datasets. <i>Metabolomics</i> , 2018 , 14, 24	4.7	35
129	Nanostructure Initiator Mass Spectrometry for tissue imaging in metabolomics: future prospects and perspectives. <i>Journal of Proteomics</i> , 2012 , 75, 5061-5068	3.9	35
128	Efficient feature selection for mass spectrometry based electronic nose applications. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007 , 85, 253-261	3.8	35
127	Important considerations for effective gas sensors based on metal oxide nanoneedles films. <i>Sensors and Actuators B: Chemical</i> , 2012 , 161, 406-413	8.5	34
126	Metabolomics reveals reduction of metabolic oxidation in women with polycystic ovary syndrome after pioglitazone-flutamide-metformin polytherapy. <i>PLoS ONE</i> , 2011 , 6, e29052	3.7	34
125	Tungsten trioxide sensing layers on highly ordered nanoporous alumina template. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 255-262	8.5	34
124	Focus: a robust workflow for one-dimensional NMR spectral analysis. <i>Analytical Chemistry</i> , 2014 , 86, 1160-9	8.9	33
123	Feature extraction of metal oxide gas sensors using dynamic moments. <i>Sensors and Actuators B: Chemical</i> , 2007 , 122, 219-226	8.5	33
122	Fabrication and characterisation of microporous activated carbon-based pre-concentrators for benzene vapours. <i>Sensors and Actuators B: Chemical</i> , 2008 , 132, 90-98	8.5	32
121	Dietary proanthocyanidins boost hepatic NAD(+) metabolism and SIRT1 expression and activity in a dose-dependent manner in healthy rats. <i>Scientific Reports</i> , 2016 , 6, 24977	4.9	31
120	Analysis of conduction mechanisms in annealed n-Si _{1-x} C _x H/p-crystalline Si heterojunction diodes for different doping concentrations. <i>Journal of Applied Physics</i> , 1999 , 85, 1216-1221	2.5	31
119	Optimized temperature modulation of micro-hotplate gas sensors through pseudorandom binary sequences. <i>IEEE Sensors Journal</i> , 2005 , 5, 1369-1378	4	30

118	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	8.5	30
117	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	8.5	30
116	Title: Human Serum/Plasma Glycoprotein Analysis by H-NMR, an Emerging Method of Inflammatory Assessment. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	29
115	Gas sensing properties of WO ₃ thin films deposited by rf sputtering. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 400-405	8.5	29
114	MEMS-microhotplate-based hydrogen gas sensor utilizing the nanostructured porous-anodic-alumina-supported WO ₃ active layer. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 8011-8021	6.7	28
113	Use of a MS-electronic nose for prediction of early fungal spoilage of bakery products. <i>International Journal of Food Microbiology</i> , 2007 , 114, 10-6	5.8	28
112	Monitoring the Freshness of Moroccan Sardines with a Neural-Network Based Electronic Nose. <i>Sensors</i> , 2006 , 6, 1209-1223	3.8	28
111	Ag induced modifications on WO ₃ films studied by AFM, Raman and x-ray photoelectron spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 3383-3391	3	28
110	Liver fat deposition and mitochondrial dysfunction in morbid obesity: An approach combining metabolomics with liver imaging and histology. <i>World Journal of Gastroenterology</i> , 2015 , 21, 7529-44	5.6	28
109	LipSpin: A New Bioinformatics Tool for Quantitative H NMR Lipid Profiling. <i>Analytical Chemistry</i> , 2018 , 90, 2031-2040	7.8	26
108	Gas phase micro-preconcentrators for benzene monitoring: A review. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 198-210	8.5	26
107	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	26
106	Metabolomics reveals novel blood plasma biomarkers associated to the BRCA1-mutated phenotype of human breast cancer. <i>Scientific Reports</i> , 2017 , 7, 17831	4.9	24
105	Evolution of Surface Morphology, Crystallite Size, and Texture of WO ₃ Layers Sputtered onto Si-Supported Nanoporous Alumina Templates. <i>Journal of the Electrochemical Society</i> , 2008 , 155, K116	3.9	24
104	On the effects of the materials and the noble metal additives to NO ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 311-317	8.5	24
103	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	8.5	24
102	rMSI: an R package for MS imaging data handling and visualization. <i>Bioinformatics</i> , 2017 , 33, 2427-2428	7.2	23
101	Silicon-Based Laser Desorption Ionization Mass Spectrometry for the Analysis of Biomolecules: A Progress Report. <i>Advanced Functional Materials</i> , 2019 , 29, 1903609	15.6	23

100	Obesity rather than regional fat depots marks the metabolomic pattern of adipose tissue: an untargeted metabolomic approach. <i>Obesity</i> , 2014 , 22, 698-704	8	23
99	Particle size measurement of lipoprotein fractions using diffusion-ordered NMR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 2407-15	4.4	23
98	Improvement of the gas sensor response via silicon preconcentrator. <i>Sensors and Actuators B: Chemical</i> , 2007 , 127, 288-294	8.5	23
97	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	8.5	23
96	Characterization of H NMR Plasma Glycoproteins as a New Strategy To Identify Inflammatory Patterns in Rheumatoid Arthritis. <i>Journal of Proteome Research</i> , 2018 , 17, 3730-3739	5.6	23
95	Aerosol-Assisted CVD of SnO ₂ Thin Films for Gas-Sensor Applications. <i>Chemical Vapor Deposition</i> , 2011 , 17, 247-252		22
94	Templated growth of tungsten oxide micro/nanostructures using aerosol assisted chemical vapour deposition. <i>Materials Letters</i> , 2008 , 62, 4582-4584	3.3	22
93	Compound identification in gas chromatography/mass spectrometry-based metabolomics by blind source separation. <i>Journal of Chromatography A</i> , 2015 , 1409, 226-33	4.5	21
92	Gold Nanoparticle-Assisted Black Silicon Substrates for Mass Spectrometry Imaging Applications. <i>ACS Nano</i> , 2020 , 14, 6785-6794	16.7	21
91	HDL Triglycerides: A New Marker of Metabolic and Cardiovascular Risk. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	21
90	Biomarkers of food intake and metabolite differences between plasma and red blood cell matrices; a human metabolomic profile approach. <i>Molecular BioSystems</i> , 2013 , 9, 1411-22		21
89	Effect of pistachio consumption on plasma lipoprotein subclasses in pre-diabetic subjects. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2015 , 25, 396-402	4.5	21
88	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	4.7	21
87	Metabolic phenotyping of genetically modified mice: An NMR metabolomic approach. <i>Biochimie</i> , 2009 , 91, 1053-7	4.6	21
86	Influence of the deposition method on the morphology and elemental composition of SnO ₂ films for gas sensing: atomic force and X-ray photoemission spectroscopy analysis. <i>Sensors and Actuators B: Chemical</i> , 2003 , 92, 67-72	8.5	21
85	Nutri-metabolomics: subtle serum metabolic differences in healthy subjects by NMR-based metabolomics after a short-term nutritional intervention with two tomato sauces. <i>OMICS A Journal of Integrative Biology</i> , 2013 , 17, 611-8	3.8	19
84	Electrical equivalent models of semiconductor gas sensors using PSpice. <i>Sensors and Actuators B: Chemical</i> , 2001 , 77, 275-280	8.5	19
83	Electrical model for amorphous/crystalline heterojunction silicon diodes (n a-Si:H/p c-Si). <i>Semiconductor Science and Technology</i> , 1996 , 11, 1209-1213	1.8	19

82	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	6.6	18
81	Lipoprotein hydrophobic core lipids are partially extruded to surface in smaller HDL: "Herniated" HDL, a common feature in diabetes. <i>Scientific Reports</i> , 2016 , 6, 19249	4.9	18
80	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	8.5	17
79	Assessing the potential of sputtered gold nanolayers in mass spectrometry imaging for metabolomics applications. <i>PLoS ONE</i> , 2018 , 13, e0208908	3.7	17
78	New technology of metal oxide thin film preparation for chemical sensor application. <i>Sensors and Actuators B: Chemical</i> , 2005 , 109, 128-134	8.5	16
77	Fatty acid binding protein 4 (FABP4) as a potential biomarker reflecting myocardial lipid storage in type 2 diabetes. <i>Metabolism: Clinical and Experimental</i> , 2019 , 96, 12-21	12.7	15
76	Remarkable quantitative and qualitative differences in HDL after niacin or fenofibrate therapy in type 2 diabetic patients. <i>Atherosclerosis</i> , 2015 , 238, 213-9	3.1	15
75	Micro-machined WO ₃ -based sensors with improved characteristics. <i>Sensors and Actuators B: Chemical</i> , 2009 , 140, 356-362	8.5	15
74	Towards a GC-based microsystem for benzene and 1,3 butadiene detection: Pre-concentrator characterization. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 680-688	8.5	15
73	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	3.9	15
72	A baseline metabolomic signature is associated with immunological CD4+ T-cell recovery after 36 months of antiretroviral therapy in HIV-infected patients. <i>Aids</i> , 2018 , 32, 565-573	3.5	14
71	Highly Selective NO ₂ Gas Sensors Made of MWCNTs and WO ₃ Hybrid Layers. <i>Journal of the Electrochemical Society</i> , 2007 , 154, J141	3.9	14
70	Nanoparticle metal-oxide films for micro-hotplate-based gas sensor systems. <i>IEEE Sensors Journal</i> , 2005 , 5, 798-809	4	13
69	Thermal desorption pre-concentrator based system to assess carbon dioxide contamination by benzene. <i>Sensors and Actuators B: Chemical</i> , 2008 , 131, 85-92	8.5	12
68	Selective methane detection under varying moisture conditions using static and dynamic sensor signals. <i>Sensors and Actuators B: Chemical</i> , 1999 , 60, 106-117	8.5	12
67	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	8.5	11
66	SOI-CMOS compatible low-power gas sensor using sputtered and drop-coated metal-oxide active layers. <i>Microsystem Technologies</i> , 2005 , 12, 160-168	1.7	11
65	SPICE model for quartz crystal microbalance gas sensors. <i>Electronics Letters</i> , 1999 , 35, 772	1.1	11

64	Metabolomic Response to Acute Hypoxic Exercise and Recovery in Adult Males. <i>Frontiers in Physiology</i> , 2018 , 9, 1682	4.6	11
63	Biological Response to Meal Ingestion: Gender Differences. <i>Nutrients</i> , 2019 , 11,	6.7	10
62	rMSIproc: an R package for mass spectrometry imaging data processing. <i>Bioinformatics</i> , 2020 , 36, 3618-3619	3.1	10
61	Metabolomics reveals impaired maturation of HDL particles in adolescents with hyperinsulinaemic androgen excess. <i>Scientific Reports</i> , 2015 , 5, 11496	4.9	10
60	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	8.5	10
59	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	10
58	Current transport mechanisms in n-type amorphous silicon-carbon on p-type crystalline silicon (a-H/c-Si) heterojunction diodes. <i>Semiconductor Science and Technology</i> , 1998 , 13, 1148-1153	1.8	10
57	Unravelling and Quantifying the "NMR-Invisible" Metabolites Interacting with Human Serum Albumin by Binding Competition and T2 Relaxation-Based Decomposition Analysis. <i>Journal of Proteome Research</i> , 2017 , 16, 1847-1856	5.6	9
56	Improvement of the omega 3 index of healthy subjects does not alter the effects of dietary saturated fats or n-6PUFA on LDL profiles. <i>Metabolism: Clinical and Experimental</i> , 2017 , 68, 11-19	12.7	9
55	A (1)H NMR metabolic profiling to the assessment of protein tyrosine phosphatase 1B role in liver regeneration after partial hepatectomy. <i>Biochimie</i> , 2013 , 95, 808-16	4.6	9
54	Development of a gas pre-concentrator based on carbon nanotubes for benzene detection. <i>Procedia Engineering</i> , 2011 , 25, 239-242		9
53	Mercury optical fibre probe based on a modified cladding of sensitised Al2O3 nano-particles. <i>Sensors and Actuators B: Chemical</i> , 2009 , 143, 103-110	8.5	9
52	Electronic nose simulation tool centred on PSpice. <i>Sensors and Actuators B: Chemical</i> , 2001 , 76, 419-429	8.5	9
51	Improving Assessment of Lipoprotein Profile in Type 1 Diabetes by 1H NMR Spectroscopy. <i>PLoS ONE</i> , 2015 , 10, e0136348	3.7	9
50	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. <i>European Journal of Clinical Nutrition</i> , 2017 , 71, 1297-1302	5.2	7
49	Characterization and gas sensing properties of intrinsic and Au-doped WO3 nanostructures deposited by AACVD technique. <i>Procedia Engineering</i> , 2010 , 5, 131-134		7
48	Meal Enjoyment and Tolerance in Women and Men. <i>Nutrients</i> , 2019 , 11,	6.7	7
47	Integrative analysis reveals novel pathways mediating the interaction between adipose tissue and pancreatic islets in obesity in rats. <i>Diabetologia</i> , 2014 , 57, 1219-31	10.3	6

46	Preparation and characterisation of a planar pre-concentrator for benzene based on different activated carbon materials deposited by air-brushing. <i>Sensors and Actuators B: Chemical</i> , 2011 , 154, 213-219	8.5	6
45	Technology of metal oxide thin film deposition with interruptions. <i>Surface and Coatings Technology</i> , 2007 , 202, 453-459	4.4	6
44	Influence of the internal gas flow distribution on the efficiency of a preconcentrator. <i>Sensors and Actuators B: Chemical</i> , 2008 , 135, 52-56	8.5	6
43	X-ray investigations of nanopowder WO ₃ thick films. <i>Physica Status Solidi A</i> , 2005 , 202, 1973-1979		6
42	Lipid Profiling Using H NMR Spectroscopy. <i>Methods in Molecular Biology</i> , 2019 , 2037, 35-47	1.4	6
41	Habitual Fish Consumption, n-3 Fatty Acids, and Nuclear Magnetic Resonance Lipoprotein Subfractions in Women. <i>Journal of the American Heart Association</i> , 2020 , 9, e014963	6	5
40	Serum Paraoxonase-1-Related Variables and Lipoprotein Profile in Patients with Lung or Head and Neck Cancer: Effect of Radiotherapy. <i>Antioxidants</i> , 2019 , 8,	7.1	5
39	Use of multivariate chemometric algorithms on 1H NMR data to assess a soluble fiber (Plantago ovata husk) nutritional intervention. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013 , 121, 1-8	3.8	5
38	On-line drift counteraction for metal oxide gas sensor arrays. <i>Electronics Letters</i> , 2003 , 39, 40	1.1	5
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