

Xavier Correig

List of Publications by Year in descending order

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Version: 2024-02-01

212
papers

7,352
citations

44069
48
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79698
73
g-index

214
all docs

214
docs citations

214
times ranked

8497
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. <i>Mass Spectrometry Reviews</i> , 2023, 42, 1927-1964. | 5.4 | 14 |
| 2 | SALDI-MS and SERS Multimodal Imaging: One Nanostructured Substrate to Rule Them Both. <i>Analytical Chemistry</i> , 2022, 94, 2785-2793. | 6.5 | 18 |
| 3 | Application of Machine Learning Solutions to Optimize Parameter Prediction to Enhance Automatic NMR Metabolite Profiling. <i>Metabolites</i> , 2022, 12, 283. | 2.9 | 0 |
| 4 | Muscular carnosine is a marker for cardiorespiratory fitness and cardiometabolic risk factors in men with type 1 diabetes. <i>European Journal of Applied Physiology</i> , 2022, , 1. | 2.5 | 0 |
| 5 | Analysis of LDL and HDL size and number by nuclear magnetic resonance in a healthy working population: The LipoLab Study. <i>International Journal of Clinical Practice</i> , 2021, 75, e13610. | 1.7 | 8 |
| 6 | Unravelling the metabolic alterations of liver damage induced by thirdhand smoke. <i>Environment International</i> , 2021, 146, 106242. | 10.0 | 9 |
| 7 | Acute-phase glycoprotein profile responses to different oral macronutrient challenges: Influence of sex, functional hyperandrogenism and obesity. <i>Clinical Nutrition</i> , 2021, 40, 1241-1246. | 5.0 | 11 |
| 8 | Perspective on Multimodal Imaging Techniques Coupling Mass Spectrometry and Vibrational Spectroscopy: Picturing the Best of Both Worlds. <i>Analytical Chemistry</i> , 2021, 93, 6301-6310. | 6.5 | 19 |
| 9 | rMSIannotation: A peak annotation tool for mass spectrometry imaging based on the analysis of isotopic intensity ratios. <i>Analytica Chimica Acta</i> , 2021, 1171, 338669. | 5.4 | 11 |
| 10 | Statistical mediation of the relationships between chronological age and lipoproteins by nonessential amino acids in healthy men. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 6169-6178. | 4.1 | 1 |
| 11 | Glycoprotein Profile Measured by a ¹ H-Nuclear Magnetic Resonance Based on Approach in Patients with Diabetes: A New Robust Method to Assess Inflammation. <i>Life</i> , 2021, 11, 1407. | 2.4 | 7 |
| 12 | Raman2imzML converts Raman imaging data into the standard mass spectrometry imaging format. <i>BMC Bioinformatics</i> , 2020, 21, 448. | 2.6 | 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. <i>Journal of Cheminformatics</i> , 2020, 12, 45. | 6.1 | 6 |
| 14 | Hepatic Lipidomics and Molecular Imaging in a Murine Non-Alcoholic Fatty Liver Disease Model: Insights into Molecular Mechanisms. <i>Biomolecules</i> , 2020, 10, 1275. | 4.0 | 9 |
| 15 | Glycoprotein Profile Assessed by ¹ H-NMR as a Global Inflammation Marker in Patients with HIV Infection. A Prospective Study. <i>Journal of Clinical Medicine</i> , 2020, 9, 1344. | 2.4 | 14 |
| 16 | Gold Nanoparticle-Assisted Black Silicon Substrates for Mass Spectrometry Imaging Applications. <i>ACS Nano</i> , 2020, 14, 6785-6794. | 14.6 | 49 |
| 17 | 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. | 3.7 | 14 |
| 18 | Title: Human Serum/Plasma Glycoprotein Analysis by ¹ H-NMR, an Emerging Method of Inflammatory Assessment. <i>Journal of Clinical Medicine</i> , 2020, 9, 354. | 2.4 | 57 |

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|----|---|------|-----------|
| 19 | rMSIproc: an R package for mass spectrometry imaging data processing. <i>Bioinformatics</i> , 2020, 36, 3618-3619. | 4.1 | 21 |
| 20 | Niveles plasmáticos de glucosa, triglicéridos, VLDL, leptina y resistina como potenciales biomarcadores de la grasa miocárdica en ratones. <i>Clínica E Investigación En Arteriosclerosis</i> , 2020, 32, 8-14. | 0.8 | 4 |
| 21 | rMSIKeylon: An Ion Filtering R Package for Untargeted Analysis of Metabolomic LDI-MS Images. <i>Metabolites</i> , 2019, 9, 162. | 2.9 | 2 |
| 22 | 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, 213. | 5.1 | 14 |
| 23 | HDL Triglycerides: A New Marker of Metabolic and Cardiovascular Risk. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3151. | 4.1 | 58 |
| 24 | Silicon-Based Laser Desorption Ionization Mass Spectrometry for the Analysis of Biomolecules: A Progress Report. <i>Advanced Functional Materials</i> , 2019, 29, 1903609. | 14.9 | 37 |
| 25 | Gelsolin: a new biomarker of disease activity in SLE patients associated with HDL-c. <i>Rheumatology</i> , 2019, 59, 650-661. | 1.9 | 5 |
| 26 | 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. | 3.4 | 35 |
| 27 | Biological Response to Meal Ingestion: Gender Differences. <i>Nutrients</i> , 2019, 11, 702. | 4.1 | 18 |
| 28 | Meal Enjoyment and Tolerance in Women and Men. <i>Nutrients</i> , 2019, 11, 119. | 4.1 | 13 |
| 29 | THU0231...GELSOLIN A NEW BIOMARKER OF DISEASE ACTIVITY IN SLE PATIENTS ASSOCIATED WITH HDL-C. , 2019, , . | | 0 |
| 30 | Lipid Profiling Using 1H NMR Spectroscopy. <i>Methods in Molecular Biology</i> , 2019, 2037, 35-47. | 0.9 | 6 |
| 31 | rDolphin: a GUI R package for proficient automatic profiling of 1D 1H-NMR spectra of study datasets. <i>Metabolomics</i> , 2018, 14, 24. | 3.0 | 52 |
| 32 | 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 |
| 33 | 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. | 2.2 | 26 |
| 34 | LipSpin: A New Bioinformatics Tool for Quantitative ¹ H NMR Lipid Profiling. <i>Analytical Chemistry</i> , 2018, 90, 2031-2040. | 6.5 | 38 |
| 35 | 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. | 5.4 | 58 |
| 36 | Fatty acid binding protein 4 (FABP4) contributes to myocardial steatosis and insulin resistance in cardiac cells. <i>Atherosclerosis</i> , 2018, 275, e66. | 0.8 | 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. | 2.5 | 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. | 2.6 | 89 |
| 39 | Metabolomic Response to Acute Hypoxic Exercise and Recovery in Adult Males. Frontiers in Physiology, 2018, 9, 1682. | 2.8 | 22 |
| 40 | Characterization of ¹ H NMR Plasma Glycoproteins as a New Strategy To Identify Inflammatory Patterns in Rheumatoid Arthritis. Journal of Proteome Research, 2018, 17, 3730-3739. | 3.7 | 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. | 0.8 | 0 |
| 42 | Metabolomic signature of the postprandial experience. Neurogastroenterology and Motility, 2018, 30, e13447. | 3.0 | 7 |
| 43 | Improving sample classification by harnessing the potential of 1H-NMR signal chemical shifts. Scientific Reports, 2018, 8, 11886. | 3.3 | 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. | 4.2 | 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. | 2.9 | 14 |
| 46 | rMSI: an R package for MS imaging data handling and visualization. Bioinformatics, 2017, 33, 2427-2428. | 4.1 | 36 |
| 47 | 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. | 3.7 | 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. | 3.4 | 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. | 0.8 | 0 |
| 50 | Metabolomics reveals novel blood plasma biomarkers associated to the BRCA1-mutated phenotype of human breast cancer. Scientific Reports, 2017, 7, 17831. | 3.3 | 31 |
| 51 | Lipoprotein hydrophobic core lipids are partially extruded to surface in smaller HDL: “Herniated” HDL, a common feature in diabetes. Scientific Reports, 2016, 6, 19249. | 3.3 | 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. | 6.5 | 101 |
| 53 | Urine metabolome profiling of immune-mediated inflammatory diseases. BMC Medicine, 2016, 14, 133. | 5.5 | 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. | 3.3 | 40 |

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|----|---|-----|-----------|
| 55 | 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. | 3.5 | 48 |
| 56 | Metabolomics reveals impaired maturation of HDL particles in adolescents with hyperinsulinaemic androgen excess. <i>Scientific Reports</i> , 2015, 5, 11496. | 3.3 | 15 |
| 57 | Dolphin 1D: Improving Automation of Targeted Metabolomics in Multi-matrix Datasets of ¹ H-NMR Spectra. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 59-67. | 0.6 | 3 |
| 58 | Effect of pistachio consumption on plasma lipoprotein subclasses in pre-diabetic subjects. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2015, 25, 396-402. | 2.6 | 27 |
| 59 | Compound identification in gas chromatography/mass spectrometry-based metabolomics by blind source separation. <i>Journal of Chromatography A</i> , 2015, 1409, 226-233. | 3.7 | 26 |
| 60 | Liposcale: a novel advanced lipoprotein test based on 2D diffusion-ordered ¹ H NMR spectroscopy. <i>Journal of Lipid Research</i> , 2015, 56, 737-746. | 4.2 | 133 |
| 61 | Design and evaluation of standard lipid prediction models based on ¹ H-NMR spectroscopy of human serum/plasma samples. <i>Metabolomics</i> , 2015, 11, 1394-1404. | 3.0 | 3 |
| 62 | Remarkable quantitative and qualitative differences in HDL after niacin or fenofibrate therapy in type 2 diabetic patients. <i>Atherosclerosis</i> , 2015, 238, 213-219. | 0.8 | 23 |
| 63 | Improving Assessment of Lipoprotein Profile in Type 1 Diabetes by ¹ H NMR Spectroscopy. <i>PLoS ONE</i> , 2015, 10, e0136348. | 2.5 | 10 |
| 64 | 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. | 3.3 | 35 |
| 65 | Dolphin: a tool for automatic targeted metabolite profiling using 1D and 2D ¹ H-NMR data. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7967-7976. | 3.7 | 55 |
| 66 | OP0189 Identification of Disease Diagnostic and Disease Activity Metabolomic Biomarkers in Immune-Mediated Inflammatory Diseases. <i>Annals of the Rheumatic Diseases</i> , 2014, 73, 134.1-134. | 0.9 | 0 |
| 67 | 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. | 7.8 | 53 |
| 68 | Physical Activity and Exercise. <i>Diabetes Technology and Therapeutics</i> , 2014, 16, S-92-S-99. | 4.4 | 1 |
| 69 | Obesity rather than regional fat depots marks the metabolomic pattern of adipose tissue: An untargeted metabolomic approach. <i>Obesity</i> , 2014, 22, 698-704. | 3.0 | 28 |
| 70 | Focus: A Robust Workflow for One-Dimensional NMR Spectral Analysis. <i>Analytical Chemistry</i> , 2014, 86, 1160-1169. | 6.5 | 36 |
| 71 | Integrative analysis reveals novel pathways mediating the interaction between adipose tissue and pancreatic islets in obesity in rats. <i>Diabetologia</i> , 2014, 57, 1219-1231. | 6.3 | 7 |
| 72 | AA-CVD growth and ethanol sensing properties of pure and metal decorated WO ₃ nanoneedles. <i>International Journal of Nanotechnology</i> , 2013, 10, 455. | 0.2 | 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. | 7.5 | 55 |
| 74 | Use of multivariate chemometric algorithms on ¹ H NMR data to assess a soluble fiber (Plantago ovata) Tj ETQq0 0 0 rgBT /Overlock 10 T | 3.5 | 5 |
| 75 | A ¹ H NMR metabolic profiling to the assessment of protein tyrosine phosphatase 1B role in liver regeneration after partial hepatectomy. Biochimie, 2013, 95, 808-816. | 2.6 | 10 |
| 76 | Gas phase micro-preconcentrators for benzene monitoring: A review. Sensors and Actuators B: Chemical, 2013, 176, 198-210. | 7.8 | 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 | 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. | 14.9 | 143 |
| 79 | MEMS-microhotplate-based hydrogen gas sensor utilizing the nanostructured porous-anodic-alumina-supported WO ₃ active layer. International Journal of Hydrogen Energy, 2013, 38, 8011-8021. | 7.1 | 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. | 2.0 | 21 |
| 81 | CO and H ₂ 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. | 2.4 | 36 |
| 84 | ¹ H-NMR-based metabolomic analysis of the effect of moderate wine consumption on subjects with cardiovascular risk factors. Electrophoresis, 2012, 33, 2345-2354. | 2.4 | 56 |
| 85 | Metabolic Heterogeneity in Polycystic Ovary Syndrome Is Determined by Obesity: Plasma Metabolomic Approach Using GC-MS. Clinical Chemistry, 2012, 58, 999-1009. | 3.2 | 94 |
| 86 | Metabolomics Approach for Analyzing the Effects of Exercise in Subjects with Type 1 Diabetes Mellitus. PLoS ONE, 2012, 7, e40600. | 2.5 | 66 |
| 87 | Assessment of Compatibility between Extraction Methods for NMR- and LC/MS-Based Metabolomics. Analytical Chemistry, 2012, 84, 5838-5844. | 6.5 | 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. | 2.0 | 1 |
| 89 | Gold clusters on WO ₃ nanoneedles grown via AACVD: XPS and TEM studies. Materials Chemistry and Physics, 2012, 134, 809-813. | 4.0 | 83 |
| 90 | Important considerations for effective gas sensors based on metal oxide nanoneedles films. Sensors and Actuators B: Chemical, 2012, 161, 406-413. | 7.8 | 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. | 3.7 | 27 |
| 92 | Au nanoparticle-functionalised WO ₃ nanoneedles and their application in high sensitivity gas sensor devices. Chemical Communications, 2011, 47, 565-567. | 4.1 | 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 | WO ₃ 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. | 2.5 | 41 |
| 96 | Surface fitting of 2D diffusion-edited 1H NMR spectroscopy data for the characterisation of human plasma lipoproteins. Metabolomics, 2011, 7, 572-582. | 3.0 | 25 |
| 97 | Aerosol-Assisted CVD of SnO ₂ Thin Films for Gas-Sensor Applications. Chemical Vapor Deposition, 2011, 17, 247-252. | 1.3 | 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. | 7.8 | 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. | 7.8 | 19 |
| 100 | Chromatographic air analyser microsystem for the selective and sensitive detection of atmospheric pollutants. Journal of Physics: Conference Series, 2011, 307, 012053. | 0.4 | 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. | 4.1 | 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. | 7.8 | 10 |
| 104 | Characterization and gas sensing properties of intrinsic and Au-doped WO ₃ nanostructures 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. | 3.7 | 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 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. | 7.8 | 97 |
| 111 | Micro-machined WO ₃ -based sensors with improved characteristics. Sensors and Actuators B: Chemical, 2009, 140, 356-362. | 7.8 | 19 |
| 112 | Mercury optical fibre probe based on a modified cladding of sensitised Al ₂ O ₃ nano-particles. Sensors and Actuators B: Chemical, 2009, 143, 103-110. | 7.8 | 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. | 5.4 | 5 |
| 115 | Metabolic phenotyping of genetically modified mice: An NMR metabonomic approach†. Biochimie, 2009, 91, 1053-1057. | 2.6 | 23 |
| 116 | WO ₃ nanorods on Si by anodising Al/W/Ti laers. , 2009, , . | | 0 |
| 117 | A H ₂ 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. | 0.2 | 1 |
| 119 | Sub-ppm gas sensor detection via spiral 1/4-preconcentrator. Sensors and Actuators B: Chemical, 2008, 132, 149-154. | 7.8 | 49 |
| 120 | Influence of the internal gas flow distribution on the efficiency of a 1/4-preconcentrator. Sensors and Actuators B: Chemical, 2008, 135, 52-56. | 7.8 | 7 |
| 121 | Thermal desorption pre-concentrator based system to assess carbon dioxide contamination by benzene. Sensors and Actuators B: Chemical, 2008, 131, 85-92. | 7.8 | 14 |
| 122 | Fabrication and characterisation of microporous activated carbon-based pre-concentrators for benzene vapours. Sensors and Actuators B: Chemical, 2008, 132, 90-98. | 7.8 | 39 |
| 123 | Micro-machined WO ₃ -based sensors selective to oxidizing gases. Sensors and Actuators B: Chemical, 2008, 132, 209-215. | 7.8 | 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. | 7.3 | 69 |
| 125 | Templated growth of tungsten oxide micro/nanostructures using aerosol assisted chemical vapour deposition. Materials Letters, 2008, 62, 4582-4584. | 2.6 | 26 |
| 126 | Nanostructured Columnlike Tungsten Oxide Film by Anodizing Al/W/Ti Layers on Si. Chemistry of Materials, 2008, 20, 6482-6493. | 6.7 | 67 |

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|-----|--|-----|-----------|
| 127 | Evolution of Surface Morphology, Crystallite Size, and Texture of WO ₃ Layers Sputtered onto Si-Supported Nanoporous Alumina Templates. Journal of the Electrochemical Society, 2008, 155, K116. | 2.9 | 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. | 3.8 | 146 |
| 129 | Preconcentrator-based sensor \tilde{A} , $\hat{\mu}$ -system for low-level benzene detection. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 130 | Highly Selective NO ₂ Gas Sensors Made of MWCNTs and WO ₃ Hybrid Layers. Journal of the Electrochemical Society, 2007, 154, J141. | 2.9 | 16 |
| 131 | New TiO ₂ and Carbon Nanotube Hybrid Microsensors for Detecting Traces of O ₂ in Beverage Grade CO ₂ . , 2007, , . | | 1 |
| 132 | Spiral π -preconcentrator for gas sensor detection in the ppb range. Proceedings of IEEE Sensors, 2007, , . | 1.0 | 0 |
| 133 | Silicon π -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. | 4.8 | 7 |
| 136 | Efficient feature selection for mass spectrometry based electronic nose applications. Chemometrics and Intelligent Laboratory Systems, 2007, 85, 253-261. | 3.5 | 44 |
| 137 | Feature extraction of metal oxide gas sensors using dynamic moments. Sensors and Actuators B: Chemical, 2007, 122, 219-226. | 7.8 | 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. | 7.8 | 68 |
| 139 | Gas sensing properties of WO ₃ thin films deposited by rf sputtering. Sensors and Actuators B: Chemical, 2007, 126, 400-405. | 7.8 | 31 |
| 140 | Ozone monitoring by micro-machined sensors with WO ₃ sensing films. Sensors and Actuators B: Chemical, 2007, 126, 573-578. | 7.8 | 53 |
| 141 | Thick film titania sensors for detecting traces of oxygen. Sensors and Actuators B: Chemical, 2007, 127, 567-579. | 7.8 | 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. | 7.8 | 78 |
| 143 | Improvement of the gas sensor response via silicon $\pi/4$ -preconcentrator. Sensors and Actuators B: Chemical, 2007, 127, 288-294. | 7.8 | 23 |
| 144 | Hybrid metal oxide and multiwall carbon nanotube films for low temperature gas sensing. Sensors and Actuators B: Chemical, 2007, 127, 137-142. | 7.8 | 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. | 4.7 | 32 |
| 146 | Variable selection for support vector machine based multisensor systems. Sensors and Actuators B: Chemical, 2007, 122, 259-268. | 7.8 | 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. | 3.8 | 34 |
| 149 | Anodic formation of low-aspect-ratio porous alumina films for metal-oxide sensor application. Electrochimica Acta, 2006, 52, 1771-1780. | 5.2 | 72 |
| 150 | Oxygen functionalisation of MWNT and their use as gas sensitive thick-film layers. Sensors and Actuators B: Chemical, 2006, 113, 36-46. | 7.8 | 155 |
| 151 | Sensitivity and selectivity improvement of rf sputtered WO ₃ microhotplate gas sensors. Sensors and Actuators B: Chemical, 2006, 113, 241-248. | 7.8 | 101 |
| 152 | WO ₃ films modified with functionalised multi-wall carbon nanotubes: Morphological, compositional and gas response studies. Sensors and Actuators B: Chemical, 2006, 115, 33-41. | 7.8 | 124 |
| 153 | Tungsten trioxide sensing layers on highly ordered nanoporous alumina template. Sensors and Actuators B: Chemical, 2006, 118, 255-262. | 7.8 | 35 |
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