

# Eduard Llobet

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

291  
papers

9,121  
citations

54  
h-index

80  
g-index

327  
ext. papers

10,267  
ext. citations

5.9  
avg, IF

6.26  
L-index

#	Paper	IF	Citations
291	Nanosensors for food logistics <b>2022</b> , 657-683		
290	Chemical vapour deposited ZnO nanowires for detecting ethanol and NO <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 890, 161923	5.7	2
289	PdO and PtO loaded WS <sub>2</sub> boosts NO <sub>2</sub> gas sensing characteristics at room temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 364, 131905	8.5	2
288	Acceleration and drift reduction of MOX gas sensors using active sigma-delta controls based on dielectric excitation. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 365, 131940	8.5	0
287	Thiol-Amine Functionalized Decorated Carbon Nanotubes for Biomarker Gases Detection. <i>Chemosensors</i> , <b>2021</b> , 9, 87	4	1
286	Facile synthesis of Pd@ZnO core@shell nanoparticles for selective ethanol detection. <i>Materials Letters: X</i> , <b>2021</b> , 10, 100068	0.5	1
285	CVD growth of self-assembled 2D and 1D WS <sub>2</sub> nanomaterials for the ultrasensitive detection of NO <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 326, 128813	8.5	19
284	Zirconium oxide nanoarrays via the self-organized anodizing of Al/Zr bilayers on substrates. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 1917-1931	7.8	4
283	Physical and photocatalytic properties of sprayed Dy doped ZnO thin films under sunlight irradiation for degrading methylene blue.. <i>RSC Advances</i> , <b>2021</b> , 11, 24917-24925	3.7	2
282	An Ultrasensitive Room-Temperature H <sub>2</sub> Gas Sensor Based on 3D Assembly of CuO Decorated WS <sub>2</sub> Nanomaterial. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	5
281	Graphene-based gas sensors, working principles and sensing parameters <b>2021</b> , 459-486		0
280	Perovskite@Graphene Nanohybrids for Breath Analysis: A Proof-of-Concept. <i>Chemosensors</i> , <b>2021</b> , 9, 215	4	1
279	Graphene Loading with Polypyrrole Nanoparticles for Trace-Level Detection of Ammonia at Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 40909-40921	9.5	3
278	Comparative analysis of volatile organic compounds of breath and urine for distinguishing patients with liver cirrhosis from healthy controls by using electronic nose and voltammetric electronic tongue. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1184, 339028	6.6	2
277	Metal Oxide Nanoparticle-Decorated Few Layer Graphene Nanoflake Chemosensors for the Detection of Aromatic Volatile Organic Compounds. <i>Sensors</i> , <b>2020</b> , 20,	3.8	10
276	The role of anions and cations in the gas sensing mechanisms of graphene decorated with lead halide perovskite nanocrystals. <i>Chemical Communications</i> , <b>2020</b> , 56, 8956-8959	5.8	12
275	Synthesis and characterization of a highly sensitive and selective electrochemical sensor based on molecularly imprinted polymer with gold nanoparticles modified screen-printed electrode for glycerol determination in wastewater. <i>Talanta</i> , <b>2020</b> , 216, 120953	6.2	31

274	Fluctuation enhanced gas sensing using UV irradiated Au-nanoparticle-decorated WO <sub>3</sub> -nanowire films. <i>International Journal on Smart Sensing and Intelligent Systems</i> , <b>2020</b> , 7, 1-5	0.4	1
273	Tungsten trioxide nanowires decorated with iridium oxide nanoparticles as gas sensing material. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 812, 152156	5.7	7
272	Carbon nanomaterials functionalized with macrocyclic compounds for sensing vapors of aromatic VOCs <b>2020</b> , 223-237		3
271	A New Approach to NO <sub>2</sub> Gas Sensing Based on Pulsed UV Light and FFT Analysis Using MOX Sensors. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 397-404	4	3
270	Carbon nanomaterials <b>2020</b> , 55-84		4
269	Wafer-scale few-layer graphene growth on Cu/Ni films for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 305, 127458	8.5	20
268	LoRa Sensor Network Development for Air Quality Monitoring or Detecting Gas Leakage Events. <i>Sensors</i> , <b>2020</b> , 20,	3.8	12
267	Gas Sensing Properties of Perovskite Decorated Graphene at Room Temperature. <i>Sensors</i> , <b>2019</b> , 19,	3.8	21
266	Control of Surface Potential in WO <sub>3</sub> Gas Sensors Using UV Light <b>2019</b> ,		1
265	Carbon Nanomaterials Integrated in Rugged and Inexpensive Sensing Platforms for the In-Field Detection of Chemical Warfare Agents. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , <b>2019</b> , 13-32	0.1	1
264	Raman and XPS studies of ammonia sensitive polypyrrole nanorods and nanoparticles. <i>Scientific Reports</i> , <b>2019</b> , 9, 8465	4.9	71
263	Diamondoid Nanostructures as sp <sup>3</sup> -Carbon-Based Gas Sensors. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 10038-10043	10.4	1
262	Diamondoid Nanostructures as sp <sup>2</sup> -Carbon-Based Gas Sensors. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9933-9938	16.4	15
261	A tungsten oxide/tungsten bisphthalocyanine n-p heterojunction: from nanomaterials to a new transducer for chemo-sensing. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 6448-6455	7.1	13
260	Gas sensing properties of ZnO nanostructures (flowers/rods) synthesized by hydrothermal method. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 292, 24-31	8.5	113
259	Hydrophilicity and carbon chain length effects on the gas sensing properties of chemoresistive, self-assembled monolayer carbon nanotube sensors. <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 565-577	3.7	6
258	Testing the Reliability of Flexible MOX Gas Sensors under Strain. <i>Proceedings (mdpi)</i> , <b>2019</b> , 14, 20	0.3	0
257	WO <sub>3</sub> nanowires loaded with cobalt oxide nanoparticles, deposited by a two-step AACVD for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 298, 126868	8.5	15

256 Nanomaterials for the Selective Detection of Hydrogen at Trace Levels in the Ambient **2019**, 1223-1246

255 The role of Al concentration on improving the photocatalytic performance of nanostructured ZnO/ZnO:Al/ZnO multilayer thin films. *Journal of Alloys and Compounds*, **2019**, 788, 289-301 5.7 36

254 Multiwalled carbon nanotube based aromatic volatile organic compound sensor: sensitivity enhancement through 1-hexadecanethiol functionalisation. *Beilstein Journal of Nanotechnology*, **2019**, 10, 2364-2373 3 7

253 Low Kinetic Energy Oxygen Ion Irradiation of Vertically Aligned Carbon Nanotubes. *Applied Sciences (Switzerland)*, **2019**, 9, 5342 2.6 3

252 Performance of Flexible Chemoresistive Gas Sensors after Having Undergone Automated Bending Tests. *Sensors*, **2019**, 19, 3.8 9

251 Exploiting sensor geometry for enhanced gas sensing properties of fluorinated carbon nanotubes under humid environment. *Sensors and Actuators B: Chemical*, **2019**, 281, 945-952 8.5 18

250 Wet chemistry route for the decoration of carbon nanotubes with iron oxide nanoparticles for gas sensing. *Beilstein Journal of Nanotechnology*, **2019**, 10, 105-118 3 6

249 AACVD and gas sensing properties of nickel oxide nanoparticle decorated tungsten oxide nanowires. *Journal of Materials Chemistry C*, **2018**, 6, 5181-5192 7.1 22

248 Hafnium-Oxide 3-D Nanofilms via the Anodizing of Al/Hf Metal Layers. *Chemistry of Materials*, **2018**, 30, 2694-2708 9.6 19

247 Nanomaterials for the Selective Detection of Hydrogen at Trace Levels in the Ambient **2018**, 1-24 1

246 Emerging approach for analytical characterization and geographical classification of Moroccan and French honeys by means of a voltammetric electronic tongue. *Food Chemistry*, **2018**, 243, 36-42 8.5 34

245 Using a Second Order Sigma-Delta Control to Improve the Performance of Metal-Oxide Gas Sensors. *Sensors*, **2018**, 18, 3.8 6

244 Flexible Gas Sensors Employing Octahedral Indium Oxide Films. *Sensors*, **2018**, 18, 3.8 12

243 Using the Transient Response of WO<sub>3</sub> Nanoneedles under Pulsed UV Light in the Detection of NH<sub>3</sub> and NO<sub>2</sub>. *Sensors*, **2018**, 18, 3.8 9

242 Development of a highly sensitive and selective molecularly imprinted electrochemical sensor for sulfaguanidine detection in honey samples. *Journal of Electroanalytical Chemistry*, **2018**, 823, 647-655 4.1 21

241 Gas Sensing Properties of Carbon Nanotubes Decorated with Iridium Oxide Nanoparticles. *Proceedings (mdpi)*, **2018**, 2, 874 0.3 4

240 Gas Sensing with Iridium Oxide Nanoparticle Decorated Carbon Nanotubes. *Sensors*, **2018**, 19, 3.8 15

239 Architecture for the efficient manufacturing by printing of heated, planar, resistive transducers on polymeric foil for gas sensing. *Sensors and Actuators B: Chemical*, **2018**, 258, 952-960 8.5 9

238	Gas Sensing Properties of WO <sub>3</sub> Nanowires Decorated with Iridium Oxide Nanoparticles. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 964	0.3	
237	Solar water splitting on porous-alumina-assisted TiO <sub>2</sub> -doped WO <sub>x</sub> nanorod photoanodes: Paradoxes and challenges. <i>Nano Energy</i> , <b>2017</b> , 33, 72-87	17.1	27
236	MoS <sub>2</sub> /Carbon Nanotube Hybrid Material Growth and Gas Sensing. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700801	4.6	48
235	Gas Sensing Approaches Based on WO <sub>3</sub> Nanowire-Back Gated Devices. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 437	0.3	1
234	Temperature-Dependent NO Sensing Mechanisms over Indium Oxide. <i>ACS Sensors</i> , <b>2017</b> , 2, 1272-1277	9.2	47
233	Immunosensing by luminescence reduction in surface-modified microstructured SU-8. <i>Applied Surface Science</i> , <b>2017</b> , 392, 883-888	6.7	3
232	Cobalt or Silver Doped WO <sub>3</sub> Nanowires Deposited by a Two-Step AACVD for Gas Sensing Applications. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 438	0.3	3
231	Nanomaterials for the Selective Detection of Hydrogen Sulfide in Air. <i>Sensors</i> , <b>2017</b> , 17,	3.8	40
230	Identification of Tequila with an Array of ZnO Thin Films: A Simple and Cost-Effective Method. <i>Sensors</i> , <b>2017</b> , 17,	3.8	5
229	MHDA-Functionalized Multiwall Carbon Nanotubes for detecting non-aromatic VOCs. <i>Scientific Reports</i> , <b>2016</b> , 6, 35130	4.9	30
228	Aerosol assisted chemical vapour deposition of gas sensitive SnO <sub>2</sub> and Au-functionalised SnO <sub>2</sub> nanorods via a non-catalysed vapour solid (VS) mechanism. <i>Scientific Reports</i> , <b>2016</b> , 6, 28464	4.9	27
227	. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 5152-5159	4	14
226	Active Control of the Surface Potential of Nanostructured Layers. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 2213-2214		2
225	Formation and gas-sensing properties of a porous-alumina-assisted 3-D niobium-oxide nanofilm. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 229, 587-598	8.5	25
224	Synthesis of ZnO nanowires and impacts of their orientation and defects on their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 230, 109-114	8.5	35
223	Smart control of chemical gas sensors for the reduction of their time response. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 229, 1-6	8.5	14
222	Enhanced detection of nitrogen dioxide via combined heating and pulsed UV operation of indium oxide nano-octahedra. <i>Beilstein Journal of Nanotechnology</i> , <b>2016</b> , 7, 1507-1518	3	7
221	Electronic Noses for Monitoring the Quality of Fruit <b>2016</b> , 49-58		3

220	Performance Comparison of Fuzzy ARTMAP and LDA in Qualitative Classification of Iranian Rosa damascena Essential Oils by an Electronic Nose. <i>Sensors</i> , <b>2016</b> , 16,	3.8	12
219	Gas Sensing Properties of In <sub>2</sub> O <sub>3</sub> Cubes Prepared by a Hydrothermal Method. <i>Procedia Engineering</i> , <b>2016</b> , 168, 247-250		1
218	Pulsed UV Light Activated Gas Sensing in Tungsten Oxide Nanowires. <i>Procedia Engineering</i> , <b>2016</b> , 168, 351-354		12
217	Nickel Doped WO <sub>3</sub> Nanoneedles Deposited by a Single Step AACVD for Gas Sensing Applications. <i>Procedia Engineering</i> , <b>2016</b> , 168, 206-210		11
216	Micromachined Gas Sensors Based on Au-functionalized SnO <sub>2</sub> Nanorods Directly Integrated without Catalyst Seeds via AA-CVD. <i>Procedia Engineering</i> , <b>2016</b> , 168, 1078-1081		6
215	VOC Sensing Properties of MHDA-Functionalized Multiwall Carbon Nanotubes. <i>Procedia Engineering</i> , <b>2016</b> , 168, 268-271		2
214	Aerosol-Assisted CVD-Grown PdO Nanoparticle-Decorated Tungsten Oxide Nanoneedles Extremely Sensitive and Selective to Hydrogen. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 10413-21	9.5	71
213	Metal-substrate-supported tungsten-oxide nanoarrays via porous-alumina-assisted anodization: from nanocolumns to nanocapsules and nanotubes. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 8219-8232 <sup>13</sup>		27
212	Metal Decorated WO <sub>3</sub> Nanoneedles Fabricated by Aerosol Assisted Chemical Vapor Deposition for Optical Gas Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 10125-10132	1.3	7
211	p-Type PdO nanoparticles supported on n-type WO <sub>3</sub> nanoneedles for hydrogen sensing. <i>Thin Solid Films</i> , <b>2016</b> , 618, 238-245	2.2	13
210	Synthesis of single crystalline In <sub>2</sub> O <sub>3</sub> octahedra for the selective detection of NO <sub>2</sub> and H <sub>2</sub> at trace levels. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 9418-9427	7.1	44
209	Gas discrimination using screen-printed piezoelectric cantilevers coated with carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 237, 1056-1065	8.5	19
208	Localized aerosol-assisted CVD of nanomaterials for the fabrication of monolithic gas sensor microarrays. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 216, 374-383	8.5	19
207	One-step firing for electroded PZT thick films applied to MEMS. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 025020	3.4	13
206	Design and evaluation of standard lipid prediction models based on 1H-NMR spectroscopy of human serum/plasma samples. <i>Metabolomics</i> , <b>2015</b> , 11, 1394-1404	4.7	2
205	Pt- and Pd-decorated MWCNTs for vapour and gas detection at room temperature. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 919-27	3	25
204	Aerosol-assisted CVD-grown WO <sub>3</sub> nanoneedles decorated with copper oxide nanoparticles for the selective and humidity-resilient detection of H <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6842-51	9.5	126
203	NO <sub>2</sub> Sensing Properties of Thermally or UV Activated In <sub>2</sub> O <sub>3</sub> Nano-octahedra. <i>Procedia Engineering</i> , <b>2015</b> , 120, 773-776		8

202	Single Layer Gold Hotplate, Printed on Polyimide, with Heater Used as Sensing Current Drain for Metal-oxide Gas Sensor. <i>Procedia Engineering</i> , <b>2015</b> , 120, 707-710		5
201	Gas Discrimination Using Screen-printed Piezoelectric Cantilevers Coated with Carbon Nanotubes. <i>Procedia Engineering</i> , <b>2015</b> , 120, 987-992		3
200	Porous-alumina-Assisted Formation of 3-D Nanostructured Niobium Oxide Films for Advanced Sensing Applications. <i>Procedia Engineering</i> , <b>2015</b> , 120, 435-438		0
199	Oxygen plasma treated carbon nanotubes for the wireless monitoring of nitrogen dioxide levels. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 208, 444-449	8.5	18
198	Deep Cavitand Self-Assembled on Au NPs-MWCNT as Highly Sensitive Benzene Sensing Interface. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4011-4020	15.6	54
197	Instrumental assessment of red meat origins and their storage time using electronic sensing systems. <i>Analytical Methods</i> , <b>2015</b> , 7, 5193-5203	3.2	48
196	Rhodium-decorated MWCNTs for detecting organic vapours. <i>International Journal of Nanotechnology</i> , <b>2015</b> , 12, 562	1.5	6
195	New approaches for improving selectivity and sensitivity of resistive gas sensors: a review. <i>Sensor Review</i> , <b>2015</b> , 35, 340-347	1.4	51
194	Nitrogen Dioxide Wireless Sensor Based on Carbon Nanotubes and UWB RFID Technology. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2015</b> , 14, 1145-1148	3.8	7
193	Micromachined gas sensors based on tungsten oxide nanoneedles directly integrated via aerosol assisted CVD. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 198, 210-218	8.5	47
192	Microsensors based on Pt nanoparticle functionalised tungsten oxide nanoneedles for monitoring hydrogen sulfide. <i>RSC Advances</i> , <b>2014</b> , 4, 1489-1495	3.7	22
191	Boron- and nitrogen-doped multi-wall carbon nanotubes for gas detection. <i>Carbon</i> , <b>2014</b> , 66, 662-673	10.4	112
190	Gas sensing properties of the nanostructured anodic ZrO <sub>2</sub> oxide film. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 204, 588-595	8.5	7
189	Iron oxide and oxygen plasma functionalized multi-walled carbon nanotubes for the discrimination of volatile organic compounds. <i>Carbon</i> , <b>2014</b> , 78, 510-520	10.4	29
188	Aging time and brand determination of pasteurized milk using a multisensor e-nose combined with a voltammetric e-tongue. <i>Materials Science and Engineering C</i> , <b>2014</b> , 45, 348-58	8.3	40
187	Formation-structure-properties of niobium-oxide nanocolumn arrays via self-organized anodization of sputter-deposited aluminum-on-niobium layers. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 4847	7.1	59
186	Parametric line profile analysis for in situ XRD of SnO <sub>2</sub> materials: Separation of size and strain contributions. <i>Solid State Ionics</i> , <b>2014</b> , 255, 21-29	3.3	2
185	Humidity Sensing Properties of Screen-printed Carbon-black an Fe(II) Spin Crossover Compound Hybrid Films. <i>Procedia Engineering</i> , <b>2014</b> , 87, 132-135		5



184	Gas sensing with gold-decorated vertically aligned carbon nanotubes. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 910-8	3	31
183	Fast Response Hydrogen Microsensor Based on Semiconductor Niobium-oxide Nanostructures via Smart Anodizing of Al/Nb Metal Layers. <i>Procedia Engineering</i> , <b>2014</b> , 87, 811-814		6
182	Selective hydrogen detection with TiO <sub>2</sub> nanofilm via the porous-alumina-assisted anodizing of titanium layers <b>2014</b> ,		2
181	Effect of Pt nanoparticles on the optical gas sensing properties of WO <sub>3</sub> thin films. <i>Sensors</i> , <b>2014</b> , 14, 11427-43	3.8	14
180	Gas Sensing Properties of Metal-decorated Tungsten Oxide Nanowires Directly Grown onto Flexible Polymeric Hotplates. <i>Procedia Engineering</i> , <b>2014</b> , 87, 700-703		6
179	Pt/WO <sub>3</sub> microsensor grown by cold wall reactor Aerosol Assisted Chemical Vapor Deposition for C <sub>6</sub> H <sub>6</sub> and NO <sub>2</sub> detection <b>2014</b> ,		1
178	Use of a CNT-coated Piezoelectric Cantilever with Double Transduction As a Gas Sensor for Benzene Detection at Room Temperature. <i>Procedia Engineering</i> , <b>2014</b> , 87, 708-711		6
177	Time-Resolved DRIFTS, MS, and Resistance Study of SnO <sub>2</sub> Materials: The Role of Surface Hydroxyl Groups in Formation of Donor States. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 4158-4167	3.8	14
176	AA-CVD growth and ethanol sensing properties of pure and metal decorated WO <sub>3</sub> nanoneedles. <i>International Journal of Nanotechnology</i> , <b>2013</b> , 10, 455	1.5	2
175	Aerosol assisted chemical vapour deposition of gas-sensitive nanomaterials. <i>Thin Solid Films</i> , <b>2013</b> , 548, 703-709	2.2	21
174	Gas sensors using carbon nanomaterials: A review. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 179, 32-45	8.5	458
173	Multi-walled carbon nanotubes for volatile organic compound detection. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 182, 344-350	8.5	36
172	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> , <b>2013</b> , 23, 1313-1322	15.6	119
171	MEMS-microhotplate-based hydrogen gas sensor utilizing the nanostructured porous-anodic-alumina-supported WO <sub>3</sub> active layer. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 8011-8021	6.7	28
170	Functionalised multi-walled carbon nanotubes for chemical vapour detection. <i>International Journal of Nanotechnology</i> , <b>2013</b> , 10, 485	1.5	11
169	Gold clusters on WO <sub>3</sub> nanoneedles grown via AACVD: XPS and TEM studies. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 134, 809-813	4.4	63
168	Hydrogen sensors on the basis of SnO <sub>2</sub> /TiO <sub>2</sub> systems. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 174, 527-534	5.4	26
167	CO and H <sub>2</sub> Sensing with CVD-Grown Tungsten Oxide Nanoneedles Decorated with Au, Pt or Cu Nanoparticles. <i>Procedia Engineering</i> , <b>2012</b> , 47, 904-907		3



166	Selectivity problem of SnO <sub>2</sub> based materials in the presence of water vapors. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 170, 51-59	8.5	15
165	The Growth and Gas Sensing Properties of Mixed Oxide Nanocomposite Thin Film Derived from Anodically Oxidized Al/Ti Metal Layers. <i>Procedia Engineering</i> , <b>2012</b> , 47, 833-836		6
164	Geographical classification of Virgin Olive Oils by combining the electronic nose and tongue <b>2012</b> ,		4
163	Characterization of structural changes in aptamer films for controlled release nanodevices. <i>Chemical Communications</i> , <b>2012</b> , 48, 10087-9	5.8	23
162	Feature selection versus feature compression in the building of calibration models from FTIR-spectrophotometry datasets. <i>Talanta</i> , <b>2012</b> , 88, 95-103	6.2	5
161	Multifrequency interrogation of nanostructured gas sensor arrays: a tool for analyzing response kinetics. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 7502-10	7.8	30
160	Effect of the thickness of reactively sputtered WO <sub>3</sub> submicron thin films used for NO <sub>2</sub> detection. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 171-172, 18-24	8.5	27
159	A planar micro-concentrator/injector for low power consumption microchromatographic analysis of benzene and 1,3 butadiene. <i>Microsystem Technologies</i> , <b>2012</b> , 18, 489-495	1.7	1
158	Sensor selection and chemo-sensory optimization: toward an adaptable chemo-sensory system. <i>Frontiers in Neuroengineering</i> , <b>2011</b> , 4, 19		14
157	Au nanoparticle-functionalised WO <sub>3</sub> nanoneedles and their application in high sensitivity gas sensor devices. <i>Chemical Communications</i> , <b>2011</b> , 47, 565-7	5.8	183
156	Gas sensing with Au-decorated carbon nanotubes. <i>ACS Nano</i> , <b>2011</b> , 5, 4592-9	16.7	212
155	RF sputtering as a tool for plasma treating and metal decoration. <i>Procedia Engineering</i> , <b>2011</b> , 25, 223-226		1
154	Development of a gas pre-concentrator based on carbon nanotubes for benzene detection. <i>Procedia Engineering</i> , <b>2011</b> , 25, 239-242		9
153	WO <sub>3</sub> thin films for optical gas sensing. <i>Procedia Engineering</i> , <b>2011</b> , 25, 260-263		14
152	WO <sub>3</sub> nano-needles by Aerosol Assisted CVD for optical sensing. <i>Procedia Engineering</i> , <b>2011</b> , 25, 761-764		1
151	Functionalized screen-printed PZT cantilevers for room temperature benzene detection. <i>Procedia Engineering</i> , <b>2011</b> , 25, 1077-1080		2
150	Hydrogen sensors on the basis of SnO <sub>2</sub> -TiO <sub>2</sub> systems. <i>Procedia Engineering</i> , <b>2011</b> , 25, 1133-1136		32
149	Quartz crystal microbalance with dissipation measurement for proving the potential of ionic liquids as selective sensing Materials. <i>Procedia Engineering</i> , <b>2011</b> , 25, 1169-1172		7

148	Quantitative trace analysis of benzene using an array of plasma-treated metal-decorated carbon nanotubes and fuzzy adaptive resonant theory techniques. <i>Analytica Chimica Acta</i> , <b>2011</b> , 708, 19-27	6.6	18
147	A portable electronic nose system for the identification of cannabis-based drugs. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 155, 456-463	8.5	67
146	Gas sensors based on doped-CNT/SnO <sub>2</sub> composites for NO <sub>2</sub> detection at room temperature. <i>Thin Solid Films</i> , <b>2011</b> , 520, 966-970	2.2	61
145	A novel humid electronic nose combined with an electronic tongue for assessing deterioration of wine. <i>Sensors and Actuators A: Physical</i> , <b>2011</b> , 171, 152-158	3.9	62
144	Gas sensing properties of multiwall carbon nanotubes decorated with rhodium nanoparticles. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 160, 974-980	8.5	56
143	Monitoring of physical-chemical and microbiological changes in fresh pork meat under cold storage by means of a potentiometric electronic tongue. <i>Food Chemistry</i> , <b>2011</b> , 126, 1261-1268	8.5	68
142	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> , <b>2011</b> , 154, 213-219	8.5	6
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140	A potentiometric electronic tongue to monitor meat freshness <b>2010</b> ,		3
139	Interaction of water, hydrogen and their mixtures with SnO <sub>2</sub> based materials: the role of surface hydroxyl groups in detection mechanisms. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 2639-47	3.6	61
138	Selectivity problem of metal oxide based sensors in the presence of water vapors. <i>Procedia Engineering</i> , <b>2010</b> , 5, 111-114		9
137	Drop-coated sensing layers on ultra low power hotplates for an RFID flexible tag microlab. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 144, 462-466	8.5	20
136	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> , <b>2010</b> , 143, 759-768	8.5	10
135	Crystallite growth kinetics of highly pure nanocrystalline tin dioxide: The effect of palladium doping. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 121, 267-273	4.4	14
134	Selective detection of benzene traces at room temperature using metal decorated carbon nanotubes. <i>Procedia Engineering</i> , <b>2010</b> , 5, 385-388		5
133	Gas sensors based on multiwall carbon nanotubes decorated with tin oxide nanoclusters. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 145, 411-416	8.5	69
132	Fabrication of WO <sub>3</sub> nanodot-based microsensors highly sensitive to hydrogen. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 149, 352-361	8.5	64
131	Room-temperature, selective detection of benzene at trace levels using plasma-treated metal-decorated multiwalled carbon nanotubes. <i>Carbon</i> , <b>2010</b> , 48, 3477-3484	10.4	84

130	Optimized Feature Extraction for Temperature-Modulated Gas Sensors. <i>Journal of Sensors</i> , <b>2009</b> , 2009, 1-10	2	15
129	The Influence of Wide Range Humidity on Hydrogen Detection with Sensors Based on Nano-SnO <sub>2</sub> Materials <b>2009</b> ,		2
128	Potential application of the electronic nose for shelf-life determination of raw milk and red meat <b>2009</b> ,		4
127	Gas sensing properties of MWCNTs decorated with gold or tin oxide nanoparticles. <i>Procedia Chemistry</i> , <b>2009</b> , 1, 168-171		10
126	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> , <b>2009</b> , 141, 538-543	8.5	79
125	Gas sensing response of NiO nanoparticle films made by reactive gas deposition. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 138, 14-20	8.5	71
124	Comparative study of nanocrystalline SnO <sub>2</sub> materials for gas sensor application: Thermal stability and catalytic activity. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 137, 637-643	8.5	52
123	Micro-machined WO <sub>3</sub> -based sensors with improved characteristics. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 140, 356-362	8.5	15
122	Mercury optical fibre probe based on a modified cladding of sensitised Al <sub>2</sub> O <sub>3</sub> nano-particles. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 143, 103-110	8.5	9
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120	Fabrication and mass spectrometry characterization of a planar pre-concentrator for benzene based on different airbrushed activated carbon materials. <i>Procedia Chemistry</i> , <b>2009</b> , 1, 987-990		
119	Multivariate calibration analysis of colorimetric mercury sensing using a molecular probe. <i>Analytica Chimica Acta</i> , <b>2009</b> , 633, 173-80	6.6	4
118	Carbon nanotubes randomly decorated with gold clusters: from nano2hybrid atomic structures to gas sensing prototypes. <i>Nanotechnology</i> , <b>2009</b> , 20, 375501	3.4	93
117	Carbon nanotube-TiO <sub>2</sub> hybrid films for detecting traces of O <sub>2</sub> . <i>Nanotechnology</i> , <b>2008</b> , 19, 375501	3.4	53
116	Nanostructured Columnlike Tungsten Oxide Film by Anodizing Al/W/Ti Layers on Si. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 6482-6493	9.6	58
115	Evolution of Surface Morphology, Crystallite Size, and Texture of WO <sub>3</sub> Layers Sputtered onto Si-Supported Nanoporous Alumina Templates. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, K116	3.9	24
114	Selectivity Enhancement in Multisensor Systems Using Flow Modulation Techniques. <i>Sensors</i> , <b>2008</b> , 8, 7369-7379	3.8	13
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110	Fish freshness analysis using metallic potentiometric electrodes. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 131, 362-370	8.5	68
109	Thermal desorption pre-concentrator based system to assess carbon dioxide contamination by benzene. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 131, 85-92	8.5	12
108	Fabrication and characterisation of microporous activated carbon-based pre-concentrators for benzene vapours. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 132, 90-98	8.5	32
107	Micro-machined WO <sub>3</sub> -based sensors selective to oxidizing gases. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 132, 209-215	8.5	68
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101	Feature extraction of metal oxide gas sensors using dynamic moments. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 122, 219-226	8.5	33
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97	Ozone monitoring by micro-machined sensors with WO <sub>3</sub> sensing films. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 126, 573-578	8.5	44
96	Thick film titania sensors for detecting traces of oxygen. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 127, 567-579	8.5	40
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90	An RFID reader with onboard sensing capability for monitoring fruit quality. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 127, 143-149	8.5	66
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10	Novel technique to identify hazardous gases/vapors based on transient response measurements of tin oxide gas sensors conductance <b>1995</b> ,		3
9	Quantitative vapor analysis using the transient response of non-selective thick-film tin oxide gas sensors		2
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