

# Eduard Llobet

## List of Publications by Citations

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291  
papers

9,121  
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54  
h-index

80  
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327  
ext. papers

10,267  
ext. citations

5.9  
avg, IF

6.26  
L-index

#	Paper	IF	Citations
291	Gas sensors using carbon nanomaterials: A review. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 179, 32-45	8.5	458
290	Gas sensing with Au-decorated carbon nanotubes. <i>ACS Nano</i> , <b>2011</b> , 5, 4592-9	16.7	212
289	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
288	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> , <b>1997</b> , 41, 13-21	8.5	145
287	Electronic noses: a review of signal processing techniques. <i>IET Circuits, Devices and Systems</i> , <b>1999</b> , 146, 297		142
286	Oxygen functionalisation of MWNT and their use as gas sensitive thick-film layers. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 113, 36-46	8.5	139
285	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> S. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6842-51	9.5	126
284	Fabrication of Highly Selective Tungsten Oxide Ammonia Sensors. <i>Journal of the Electrochemical Society</i> , <b>2000</b> , 147, 776	3.9	126
283	Low-level detection of ethanol and H <sub>2</sub> S with temperature-modulated WO <sub>3</sub> nanoparticle gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 104, 132-139	8.5	123
282	Influence of the annealing and operating temperatures on the gas-sensing properties of rf sputtered WO <sub>3</sub> thin-film sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 105, 271-277	8.5	122
281	Electronic Nose Based on Metal Oxide Semiconductor Sensors as an Alternative Technique for the Spoilage Classification of Red Meat. <i>Sensors</i> , <b>2008</b> , 8, 142-156	3.8	120
280	Fruit ripeness monitoring using an Electronic Nose. <i>Sensors and Actuators B: Chemical</i> , <b>2000</b> , 69, 223-229	8.5	120
279	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
278	Development of high sensitivity ethanol gas sensors based on Pt-doped SnO <sub>2</sub> surfaces. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 99, 201-206	8.5	117
277	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
276	Non-destructive banana ripeness determination using a neural network-based electronic nose. <i>Measurement Science and Technology</i> , <b>1999</b> , 10, 538-548	2	113
275	Boron- and nitrogen-doped multi-wall carbon nanotubes for gas detection. <i>Carbon</i> , <b>2014</b> , 66, 662-673	10.4	112

274	Metal-decorated multi-wall carbon nanotubes for low temperature gas sensing. <i>Thin Solid Films</i> , <b>2007</b> , 515, 8322-8327	2.2	112
273	WO <sub>3</sub> films modified with functionalised multi-wall carbon nanotubes: Morphological, compositional and gas response studies. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 115, 33-41	8.5	109
272	An electronic tongue design for the qualitative analysis of natural waters. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 104, 302-307	8.5	109
271	Correlation between electronic nose signals and fruit quality indicators on shelf-life measurements with pink lady apples. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 80, 41-50	8.5	109
270	Hybrid metal oxide and multiwall carbon nanotube films for low temperature gas sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 127, 137-142	8.5	94
269	Carbon nanotubes randomly decorated with gold clusters: from nano-hybrid atomic structures to gas sensing prototypes. <i>Nanotechnology</i> , <b>2009</b> , 20, 375501	3.4	93
268	Fuzzy ARTMAP based electronic nose data analysis. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 61, 183-190	8.5	85
267	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
266	Sensitivity and selectivity improvement of rf sputtered WO <sub>3</sub> microhotplate gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 113, 241-248	8.5	84
265	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
264	Multicomponent gas mixture analysis using a single tin oxide sensor and dynamic pattern recognition. <i>IEEE Sensors Journal</i> , <b>2001</b> , 1, 207-213	4	76
263	Novel hexagonal WO <sub>3</sub> nanopowder with metal decorated carbon nanotubes as NO <sub>2</sub> gas sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 133, 151-155	8.5	75
262	Raman and XPS studies of ammonia sensitive polypyrrole nanorods and nanoparticles. <i>Scientific Reports</i> , <b>2019</b> , 9, 8465	4.9	71
261	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
260	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
259	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
258	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
257	Fish freshness analysis using metallic potentiometric electrodes. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 131, 362-370	8.5	68

256	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
255	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
254	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
253	Evaluation of an electronic nose to assess fruit ripeness. <i>IEEE Sensors Journal</i> , <b>2005</b> , 5, 97-108	4	66
252	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
251	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
250	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> , <b>2007</b> , 128, 235-244	8.5	63
249	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
248	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
247	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
246	Application of a portable electronic nose system to assess the freshness of Moroccan sardines. <i>Materials Science and Engineering C</i> , <b>2008</b> , 28, 666-670	8.3	61
245	Anodic formation of low-aspect-ratio porous alumina films for metal-oxide sensor application. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 1771-1780	6.7	61
244	Formation and 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
243	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> , <b>2002</b> , 83, 238-244	8.5	59
242	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
241	Analysis of the conductance transient in thick-film tin oxide gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>1996</b> , 31, 175-180	8.5	58
240	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
239	Detection of SO <sub>2</sub> and H <sub>2</sub> S in CO <sub>2</sub> stream by means of WO <sub>3</sub> -based micro-hotplate sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 102, 219-225	8.5	55

238	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
237	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> , <b>2007</b> , 123, 1002-1016	8.5	54
236	Carbon nanotube-TiO(2) hybrid films for detecting traces of O(2). <i>Nanotechnology</i> , <b>2008</b> , 19, 375501	3.4	53
235	The role of oxygen partial pressure and annealing temperature on the formation of W-D bonds in thin WO <sub>3</sub> films. <i>Semiconductor Science and Technology</i> , <b>2002</b> , 17, 522-525	1.8	53
234	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
233	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
232	Influence of the doping method on the sensitivity of Pt-doped screen-printed SnO <sub>2</sub> sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 97, 67-73	8.5	51
231	Pt-loaded Al <sub>2</sub> O <sub>3</sub> catalytic filters for screen-printed WO <sub>3</sub> sensors highly selective to benzene. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 101, 277-283	8.5	51
230	Novel hybrid materials for gas sensing applications made of metal-decorated MWCNTs dispersed on nano-particle metal oxides. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 131, 174-182	8.5	50
229	Wavelet transform-based fast feature extraction from temperature modulated semiconductor gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2002</b> , 81, 289-295	8.5	49
228	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
227	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
226	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
225	Temperature-Dependent NO Sensing Mechanisms over Indium Oxide. <i>ACS Sensors</i> , <b>2017</b> , 2, 1272-1277	9.2	47
224	Quantitative analysis of NO <sub>2</sub> in the presence of CO using a single tungsten oxide semiconductor sensor and dynamic signal processing. <i>Analyst, The</i> , <b>2002</b> , 127, 1237-46	5	47
223	Variable selection for support vector machine based multisensor systems. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 122, 259-268	8.5	46
222	Neural network based electronic nose for apple ripeness determination. <i>Electronics Letters</i> , <b>1999</b> , 35, 821	1.1	45
221	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

220	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> , <b>2004</b> , 52, 6068-74	5.7	44
219	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
218	Response model for thermally modulated tin oxide-based microhotplate gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 95, 203-211	8.5	43
217	Fast detection of rancidity in potato crisps using e-noses based on mass spectrometry or gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 106, 67-75	8.5	42
216	A route toward more selective and less humidity sensitive screen-printed SnO <sub>2</sub> and WO <sub>3</sub> gas sensitive layers. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 100, 221-227	8.5	41
215	Gas sensing properties of nanoparticle indium-doped WO <sub>3</sub> thick films. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 111-112, 45-51	8.5	41
214	Effects of Oxygen Partial Pressure and Annealing Temperature on the Formation of Sputtered Tungsten Oxide Films. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, H81	3.9	41
213	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
212	Nanomaterials for the Selective Detection of Hydrogen Sulfide in Air. <i>Sensors</i> , <b>2017</b> , 17,	3.8	40
211	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
210	Neural network based electronic nose for the classification of aromatic species. <i>Analytica Chimica Acta</i> , <b>1997</b> , 348, 503-509	6.6	38
209	On-line monitoring of CO <sub>2</sub> quality using doped WO <sub>3</sub> thin film sensors. <i>Thin Solid Films</i> , <b>2006</b> , 500, 302-308	8.2	38
208	Towards a micro-system for monitoring ethylene in warehouses. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 111-112, 63-70	8.5	38
207	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
206	Screen-printed nanoparticle tin oxide films for high-yield sensor microsystems. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 96, 94-104	8.5	36
205	The role of Al concentration on improving the photocatalytic performance of nanostructured ZnO/ZnO:Al/ZnO multilayer thin films. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 788, 289-301	5.7	36
204	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
203	Efficient feature selection for mass spectrometry based electronic nose applications. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2007</b> , 85, 253-261	3.8	35

202	Emerging approach for analytical characterization and geographical classification of Moroccan and French honeys by means of a voltammetric electronic tongue. <i>Food Chemistry</i> , <b>2018</b> , 243, 36-42	8.5	34
201	Tungsten trioxide sensing layers on highly ordered nanoporous alumina template. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 118, 255-262	8.5	34
200	Synthesis and characterisation of metal suboxides for gas sensors. <i>Microelectronics Reliability</i> , <b>2000</b> , 40, 807-810	1.2	34
199	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
198	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
197	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
196	Ethanol and H <sub>2</sub> S gas detection in air and in reducing and oxidising ambience: application of pattern recognition to analyse the output from temperature-modulated nanoparticulate WO <sub>3</sub> gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 104, 124-131	8.5	32
195	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
194	Gas sensing with gold-decorated vertically aligned carbon nanotubes. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 910-8	3	31
193	MHDA-Functionalized Multiwall Carbon Nanotubes for detecting non-aromatic VOCs. <i>Scientific Reports</i> , <b>2016</b> , 6, 35130	4.9	30
192	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
191	Numerical simulation of the electrode geometry and position effects on semiconductor gas sensor response. <i>Sensors and Actuators B: Chemical</i> , <b>1998</b> , 48, 425-431	8.5	30
190	Optimized temperature modulation of micro-hotplate gas sensors through pseudorandom binary sequences. <i>IEEE Sensors Journal</i> , <b>2005</b> , 5, 1369-1378	4	30
189	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> , <b>2004</b> , 99, 267-272	8.5	30
188	Optimised temperature modulation of metal oxide micro-hotplate gas sensors through multilevel pseudo random sequences. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 111-112, 271-280	8.5	30
187	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
186	Gas sensing properties of WO <sub>3</sub> thin films deposited by rf sputtering. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 126, 400-405	8.5	29
185	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

184	Use of a MS-electronic nose for prediction of early fungal spoilage of bakery products. <i>International Journal of Food Microbiology</i> , <b>2007</b> , 114, 10-6	5.8	28
183	Monitoring the Freshness of Moroccan Sardines with a Neural-Network Based Electronic Nose. <i>Sensors</i> , <b>2006</b> , 6, 1209-1223	3.8	28
182	Ag induced modifications on WO <sub>3</sub> films studied by AFM, Raman and x-ray photoelectron spectroscopy. <i>Journal Physics D: Applied Physics</i> , <b>2004</b> , 37, 3383-3391	3	28
181	Classification of the strain and growth phase of cyanobacteria in potable water using an electronic nose system. <i>IET Science, Measurement and Technology</i> , <b>2000</b> , 147, 158-164		28
180	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
179	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
178	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
177	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
176	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
175	On the selectivity of nanostructured semiconductor gas sensors. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 4331-4335	1.3	26
174	Discrimination between different samples of olive oil using variable selection techniques and modified fuzzy artmap neural networks. <i>IEEE Sensors Journal</i> , <b>2005</b> , 5, 463-470	4	26
173	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
172	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
171	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
170	On the effects of the materials and the noble metal additives to NO <sub>2</sub> detection. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 118, 311-317	8.5	24
169	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> , <b>2004</b> , 103, 23-30	8.5	24
168	Characterization of structural changes in aptamer films for controlled release nanodevices. <i>Chemical Communications</i> , <b>2012</b> , 48, 10087-9	5.8	23
167	Dealing with humidity in the qualitative analysis of CO and NO <sub>2</sub> using a WO <sub>3</sub> sensor and dynamic signal processing. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 95, 177-182	8.5	23



166	AACVD and gas sensing properties of nickel oxide nanoparticle decorated tungsten oxide nanowires. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 5181-5192	7.1	22
165	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
164	High-resolution photoelectron spectroscopy studies on WO <sub>3</sub> films modified by Ag addition. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, 6813-6822	1.8	22
163	Gas Sensing Properties of Perovskite Decorated Graphene at Room Temperature. <i>Sensors</i> , <b>2019</b> , 19,	3.8	21
162	Development of a highly sensitive and selective molecularly imprinted electrochemical sensor for sulfaguanidine detection in honey samples. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 823, 647-655	4.1	21
161	Aerosol assisted chemical vapour deposition of gas-sensitive nanomaterials. <i>Thin Solid Films</i> , <b>2013</b> , 548, 703-709	2.2	21
160	Influence of the deposition method on the morphology and elemental composition of SnO <sub>2</sub> films for gas sensing: atomic force and X-ray photoemission spectroscopy analysis. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 92, 67-72	8.5	21
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158	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
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154	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
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150	Exploiting sensor geometry for enhanced gas sensing properties of fluorinated carbon nanotubes under humid environment. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 281, 945-952	8.5	18
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148	An alternative global feature extraction of temperature modulated micro-hotplate gas sensors array using an energy vector approach?. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 124, 352-359	8.5	16
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142	Optimized Feature Extraction for Temperature-Modulated Gas Sensors. <i>Journal of Sensors</i> , <b>2009</b> , 2009, 1-10	2	15
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56	Application of artificial neural networks to the design and implementation of electronic olfactory systems		3
55	Novel technique to identify hazardous gases/vapors based on transient response measurements of tin oxide gas sensors conductance <b>1995</b> ,		3
54	Carbon nanomaterials functionalized with macrocyclic compounds for sensing vapors of aromatic VOCs <b>2020</b> , 223-237		3
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23	Optimized multi-frequency temperature modulation of microhotplate gas sensors		1



22	MLS based temperature modulation of micro-hotplates		1
21	A multisensor system for monitoring the quality of carbon dioxide in the beverage industry		1
20	Gas sensors based on nanoparticle WO/sub 3/ thick films		1
19	An unsupervised dimensionality-reduction technique <b>2005</b> ,		1
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