

Guido Faglia

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4359415/guido-faglia-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

188
papers

8,989
citations

51
h-index

87
g-index

199
ext. papers

9,649
ext. citations

6.2
avg, IF

5.63
L-index

#	Paper	IF	Citations
188	Study of the Degradation of Biobased Plastic after Stress Tests in Water. <i>Coatings</i> , 2021 , 11, 1330	2.9	1
187	. <i>IEEE Sensors Journal</i> , 2021 , 21, 12856-12867	4	1
186	On the alignment of ZnO nanowires by Langmuir Blodgett technique for sensing application. <i>Applied Surface Science</i> , 2020 , 528, 146959	6.7	6
185	Vertically Coupling ZnO Nanorods onto MoS ₂ Flakes for Optical Gas Sensing. <i>Chemosensors</i> , 2020 , 8, 19	4	6
184	Tin Oxide Nanowires Decorated with Ag Nanoparticles for Visible Light-Enhanced Hydrogen Sensing at Room Temperature: Bridging Conductometric Gas Sensing and Plasmon-Driven Catalysis. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5026-5031	3.8	20
183	Transfer of CVD-grown graphene for room temperature gas sensors. <i>Nanotechnology</i> , 2017 , 28, 414001	3.4	24
182	Metal Oxide Nanowire Preparation and Their Integration into Chemical Sensing Devices at the SENSOR Lab in Brescia. <i>Sensors</i> , 2017 , 17,	3.8	16
181	Kelvin probe as an effective tool to develop sensitive p-type CuO gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 1257-1263	8.5	26
180	A composite structure based on reduced graphene oxide and metal oxide nanomaterials for chemical sensors. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1421-1427	3	27
179	Reduced graphene oxide/ZnO nanocomposite for application in chemical gas sensors. <i>RSC Advances</i> , 2016 , 6, 34225-34232	3.7	75
178	TiO ₂ colloidal nanocrystals surface modification by V ₂ O ₅ species: Investigation by ⁴⁷ Ti MAS-NMR and H ₂ , CO and NO ₂ sensing properties. <i>Applied Surface Science</i> , 2015 , 351, 1169-1173	6.7	16
177	Nanostructured ZnO chemical gas sensors. <i>Ceramics International</i> , 2015 , 41, 14239-14244	5.1	158
176	Tailoring the textured surface of porous nanostructured NiO thin films for the detection of pollutant gases. <i>Thin Solid Films</i> , 2015 , 583, 233-238	2.2	35
175	Fabrication of single-nanowire sensing devices by electron beam lithography 2015 ,		1
174	Large surface area biphasic titania for chemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 1091-1096	8.5	23
173	Surface modification of TiO ₂ nanocrystals by WO _x coating or wrapping: solvothermal synthesis and enhanced surface chemistry. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6898-908	9.5	21
172	Visible electroluminescence from a ZnO nanowires/p-GaN heterojunction light emitting diode. <i>Optics Express</i> , 2015 , 23, 18937-42	3.3	14

171	p-Type copper aluminum oxide thin films for gas-sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 287-296	8.5	35
170	Evidence of catalytic activation of anatase nanocrystals by vanadium oxide surface layer: Acetone and ethanol sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2015 , 217, 193-197	8.5	18
169	Highly conductive titanium oxide nanotubes chemical sensors. <i>Microporous and Mesoporous Materials</i> , 2015 , 208, 165-170	5.3	24
168	Investigation of Seebeck Effect in ZnO Nanowires for Micropower Generation in Autonomous Sensor Systems. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 245-249	0.2	
167	Synthesis of self-ordered and well-aligned Nb ₂ O ₅ nanotubes. <i>CrystEngComm</i> , 2014 , 16, 10273-10279	3.3	24
166	Solvothermal, chloroalkoxide-based synthesis of monoclinic WO ₃ quantum dots and gas-sensing enhancement by surface oxygen vacancies. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16808-16	9.5	69
165	Synthesis and electrochemical study of a hybrid structure based on PDMS-TEOS and titania nanotubes for biomedical applications. <i>Nanotechnology</i> , 2014 , 25, 365701	3.4	8
164	Integration of ZnO and CuO nanowires into a thermoelectric module. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 927-36	3	17
163	Investigation of Seebeck Effect in Metal Oxide Nanowires for Powering Autonomous Microsystems. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 3-7	0.2	
162	New label free CA125 detection based on gold nanostructured screen-printed electrode. <i>Sensors and Actuators B: Chemical</i> , 2013 , 179, 194-200	8.5	80
161	Plasma-induced enhancement of UV photoluminescence in ZnO nanowires. <i>CrystEngComm</i> , 2013 , 15, 7981	3.3	25
160	Synthesis of self-assembled chain-like ZnO nanostructures on stiff and flexible substrates. <i>CrystEngComm</i> , 2013 , 15, 2881	3.3	20
159	Quasi One-Dimensional Metal Oxide Nanostructures for Gas Sensors 2013 , 435-453		1
158	Metal oxide nanoscience and nanotechnology for chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 179, 3-20	8.5	129
157	Colloidal Counterpart of the TiO ₂ -Supported V ₂ O ₅ System: A Case Study of Oxide-on-Oxide Deposition by Wet Chemical Techniques. Synthesis, Vanadium Speciation, and Gas-Sensing Enhancement. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20697-20705	3.8	30
156	TiO ₂ nanotubes: recent advances in synthesis and gas sensing properties. <i>Sensors</i> , 2013 , 13, 14813-38	3.8	140
155	Metal oxide nanowire chemical and biochemical sensors. <i>Journal of Materials Research</i> , 2013 , 28, 2911-2931	3.1	17
154	Gas sensing characteristics of Fe-doped tungsten oxide thin films. <i>Sensors and Actuators B: Chemical</i> , 2012 , 168, 345-353	8.5	52

153	Growth and Gas Sensing Properties of Self-Assembled Chain-Like ZnO Nanostructures. <i>Procedia Engineering</i> , 2012 , 47, 762-765		1
152	Exploitation of a low-cost electronic system, designed for low-conductance and wide-range measurements, to control metal oxide gas sensors with temperature profile protocols. <i>Sensors and Actuators B: Chemical</i> , 2012 , 175, 149-156	8.5	14
151	Fabrication of pure and Nb-doped TiO ₂ nanotubes and their functional properties. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S488-S490	5.7	17
150	Pt doping triggers growth of TiO ₂ nanorods: nanocomposite synthesis and gas-sensing properties. <i>CrystEngComm</i> , 2012 , 14, 3882	3.3	25
149	One-dimensional nanostructured oxides for thermoelectric applications and excitonic solar cells. <i>Nano Energy</i> , 2012 , 1, 372-390	17.1	36
148	Planar Thermoelectric Generator based on Metal-Oxide Nanowires for Powering Autonomous Microsystems. <i>Procedia Engineering</i> , 2012 , 47, 346-349		6
147	Functionalised zinc oxide nanowire gas sensors: Enhanced NO ₂ gas sensor response by chemical modification of nanowire surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2012 , 3, 368-77	3	57
146	Metal Oxides Mono-Dimensional Nanostructures for Gas Sensing and Light Emission. <i>Journal of the American Ceramic Society</i> , 2012 , 95, n/a-n/a	3.8	5
145	Fabrication and investigation of gas sensing properties of Nb-doped TiO ₂ nanotubular arrays. <i>Nanotechnology</i> , 2012 , 23, 235706	3.4	46
144	Fabrication of TiO ₂ and TiO ₂ Nanotubular Arrays and Their Gas Sensing Properties. <i>Procedia Engineering</i> , 2011 , 25, 757-760		4
143	Response dynamics of metal oxide gas sensors working with temperature profile protocols. <i>Procedia Engineering</i> , 2011 , 25, 1173-1176		4
142	Seebeck effect in ZnO nanowires for micropower generation. <i>Procedia Engineering</i> , 2011 , 25, 1481-1484		12
141	TiO ₂ nanotubular and nanoporous arrays by electrochemical anodization on different substrates. <i>RSC Advances</i> , 2011 , 1, 1038	3.7	60
140	Two step, hydrolytic-solvothermal synthesis of redispersible titania nanocrystals and their gas-sensing properties. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 60, 254-259	2.3	8
139	Vertically aligned TiO ₂ nanotubes on plastic substrates for flexible solar cells. <i>Small</i> , 2011 , 7, 2437-42	11	18
138	The Power of Nanomaterial Approaches in Gas Sensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2011 , 53-78	2	
137	Sensing Properties of E-Beam Evaporated Nanostructured Pure and Iron-Doped Tungsten Oxide Thin Films. <i>Sensor Letters</i> , 2011 , 9, 759-762	0.9	4
136	Direct integration of metal oxide nanowires into an effective gas sensing device. <i>Nanotechnology</i> , 2010 , 21, 145502	3.4	29

135	Insight into the Formation Mechanism of One-Dimensional Indium Oxide Wires. <i>Crystal Growth and Design</i> , 2010 , 10, 140-145	3.5	29
134	Metal-oxide nanowire sensors for CO detection: Characterization and modeling. <i>Sensors and Actuators B: Chemical</i> , 2010 , 148, 283-291	8.5	38
133	Transparent Metal Oxide Semiconductors as Gas Sensors 2010 , 417-442		
132	Physical Vapor Deposition of Copper Oxide Nanowires. <i>Procedia Engineering</i> , 2010 , 5, 1051-1054		2
131	ZnO/TiO ₂ nanonetwork as efficient photoanode in excitonic solar cells. <i>Applied Physics Letters</i> , 2009 , 95, 193104	3.4	37
130	SnO ₂ nanowires for optical and optoelectronic gas sensing 2009 ,		1
129	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2009 , 58, 1324-1332	5.2	49
128	Semiconducting tin oxide nanowires and thin films for Chemical Warfare Agents detection. <i>Thin Solid Films</i> , 2009 , 517, 6156-6160	2.2	42
127	Luminescence response of ZnO nanowires to gas adsorption. <i>Sensors and Actuators B: Chemical</i> , 2009 , 140, 461-466	8.5	58
126	Metal oxide nanowires: Preparation and application in gas sensing. <i>Journal of Molecular Catalysis A</i> , 2009 , 305, 170-177		51
125	Quasi-one dimensional metal oxide semiconductors: Preparation, characterization and application as chemical sensors. <i>Progress in Materials Science</i> , 2009 , 54, 1-67	42.2	509
124	Electrical-Based Gas Sensing 2009 , 1-61		5
123	Chemoresistive sensing of light alkanes with SnO ₂ nanocrystals: a DFT-based insight. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 3634-9	3.6	9
122	. <i>IEEE Sensors Journal</i> , 2009 , 9, 1727-1733	4	27
121	Synthesis and Gas-Sensing Properties of Pd-Doped SnO ₂ Nanocrystals. A Case Study of a General Methodology for Doping Metal Oxide Nanocrystals. <i>Crystal Growth and Design</i> , 2008 , 8, 1774-1778	3.5	61
120	The Role of Surface Oxygen Vacancies in the NO ₂ Sensing Properties of SnO ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19540-19546	3.8	154
119	. <i>IEEE Sensors Journal</i> , 2008 , 8, 735-742	4	44
118	On the mechanism of photoluminescence quenching in tin dioxide nanowires by NO ₂ adsorption. <i>New Journal of Physics</i> , 2008 , 10, 043013	2.9	54

117	NO ₂ adsorption effects on p+n silicon junctions surrounded by a porous layer. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 922-927	8.5	14
116	Nanowires of metal oxides for gas sensing applications. <i>Surface and Interface Analysis</i> , 2008 , 40, 575-578	1.5	29
115	Orthorhombic Pbcn SnO ₂ nanowires for gas sensing applications. <i>Journal of Crystal Growth</i> , 2008 , 310, 253-260	1.6	40
114	Catalytic enhancement of SnO ₂ gas sensors as seen by the moving gas outlet method. <i>Sensors and Actuators B: Chemical</i> , 2008 , 130, 193-199	8.5	22
113	Chemical synthesis of In ₂ O ₃ nanocrystals and their application in highly performing ozone-sensing devices. <i>Sensors and Actuators B: Chemical</i> , 2008 , 130, 483-487	8.5	32
112	Inverse opal gas sensors: Zn(II)-doped tin dioxide systems for low temperature detection of pollutant gases. <i>Sensors and Actuators B: Chemical</i> , 2008 , 130, 567-573	8.5	37
111	Exploratory data analysis for industrial safety application. <i>Sensors and Actuators B: Chemical</i> , 2008 , 131, 100-109	8.5	22
110	Preparation of Radial and Longitudinal Nanosized Heterostructures of In ₂ O ₃ and SnO ₂ . <i>Nano Letters</i> , 2007 , 7, 3553-3558	11.5	55
109	Nanocrystals as Very Active Interfaces: Ultrasensitive Room-Temperature Ozone Sensors with In ₂ O ₃ Nanocrystals Prepared by a Low-Temperature Sol-Gel Process in a Coordinating Environment. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13967-13971	3.8	37
108	In ₂ O ₃ nanowires for gas sensors: morphology and sensing characterisation. <i>Thin Solid Films</i> , 2007 , 515, 8356-8359	2.2	75
107	Pd- and Ca-doped iron oxide for ethanol vapor sensing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 139, 41-47	3.1	30
106	Synthesis and characterization of semiconducting nanowires for gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2007 , 121, 208-213	8.5	145
105	Interactions of nanocrystalline tin oxide powder with NO ₂ : A Raman spectroscopic study. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 1-5	8.5	26
104	Oxide nanocrystals from a low-temperature, self-limiting sol-gel transition in a coordinating environment: Nanocrystal synthesis, processing of gas-sensing devices and application to organic compounds. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 163-167	8.5	7
103	Cr-inserted TiO ₂ thin films for chemical gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2007 , 128, 312-315	1.5	40
102	Gas sensing properties of zinc oxide nanostructures prepared by thermal evaporation. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 88, 45-48	2.6	26
101	Functional nanowires of tin oxide. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 73-76	2.6	15
100	Defect study of SnO ₂ nanostructures by cathodoluminescence analysis: Application to nanowires. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 6-12	8.5	85

99	Gas response times of nano-scale SnO ₂ gas sensors as determined by the moving gas outlet technique. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 174-180	8.5	31
98	SnO ₂ :Sb DA new material for high-temperature MEMS heater applications: Performance and limitations. <i>Sensors and Actuators B: Chemical</i> , 2007 , 124, 421-428	8.5	34
97	Correlation between atomic composition and gas sensing properties in tungsten/iron oxide thin films. <i>Sensors and Actuators B: Chemical</i> , 2007 , 127, 22-28	8.5	16
96	Single crystal ZnO nanowires as optical and conductometric chemical sensor. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 7255-7259	3	77
95	SnO ₂ nanowire bio-transistor for electrical DNA sensing 2007 ,		1
94	Controlled Growth and Sensing Properties of In ₂ O ₃ Nanowires. <i>Crystal Growth and Design</i> , 2007 , 7, 2500-2504	3.5	117
93	. <i>IEEE Sensors Journal</i> , 2007 , 7, 1506-1512	4	14
92	Influence of iron addition on ethanol and CO sensing properties of tin oxide prepared with the RGTO technique. <i>Sensors and Actuators B: Chemical</i> , 2006 , 115, 561-566	8.5	12
91	Nanocrystalline Metal Oxides from the Injection of Metal Oxide Sols in Coordinating Solutions: Synthesis, Characterization, Thermal Stabilization, Device Processing, and Gas-Sensing Properties. <i>Advanced Functional Materials</i> , 2006 , 16, 1488-1498	15.6	87
90	Oxide Nanobelts as Conductometric Gas Sensors. <i>Materials and Manufacturing Processes</i> , 2006 , 21, 229-232	3.2	14
89	Room-temperature gas sensing based on visible photoluminescence properties of metal oxide nanobelts. <i>Journal of Optics</i> , 2006 , 8, S585-S588		27
88	High Temperature Phases of Nanostructured Tungsten Oxide for Gas Sensing Applications. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 915, 1		1
87	Gas sensitive light emission properties of tin oxide and zinc oxide nanobelts. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1457-1460	3.9	34
86	SnO ₂ /Fe ₂ O ₃ nanocomposites: Ethanol-sensing performance and catalytic activity for oxidation of ethanol. <i>Inorganic Materials</i> , 2006 , 42, 1088-1093	0.9	21
85	Layered WO ₃ /ZnO/36LiTaO ₃ SAW gas sensor sensitive towards ethanol vapour and humidity. <i>Sensors and Actuators B: Chemical</i> , 2006 , 117, 442-450	8.5	48
84	Indium oxide quasi-monodimensional low temperature gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 204-207	8.5	48
83	Nanocomposites SnO ₂ /Fe ₂ O ₃ : Sensor and catalytic properties. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 208-214	8.5	102
82	Iron-doped indium oxide by modified RGTO deposition for ozone sensing. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 221-225	8.5	18

81	Cr ₂ N oxide thin films: Electrical and spectroscopic characterisation with CO, NO ₂ , NH ₃ and ethanol. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 142-148	8.5	12
80	Adsorption effects of NO ₂ at ppm level on visible photoluminescence response of SnO ₂ nanobelts. <i>Applied Physics Letters</i> , 2005 , 86, 011923	3.4	123
79	Tin oxide nanobelts electrical and sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2005 , 111-112, 2-6	8.5	100
78	SnO ₂ sub-micron wires for gas sensors. <i>Microelectronic Engineering</i> , 2005 , 78-79, 178-184	2.5	16
77	Monitoring plants health in greenhouse for space missions. <i>Sensors and Actuators B: Chemical</i> , 2005 , 108, 278-284	8.5	27
76	Metal oxide nanocrystals for gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2005 , 109, 2-6	8.5	102
75	Photo-Induced Unpinning of Fermi Level in WO ₃ . <i>Sensors</i> , 2005 , 5, 594-603	3.8	12
74	Pt/Ga ₂ O ₃ /SiC MRISiC devices: a study of the hydrogen response. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 754-763	3	15
73	SnO ₂ lithographic processing for nanopatterned gas sensors. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 2784		16
72	Sub-micron structured Metal Oxide gas sensors by means of lithographic techniques. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 828, 108		
71	Influence of metallic impurities on response kinetics in metal oxide thin film gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2004 , 103, 448-456	8.5	10
70	SnO/sub 2/ RGTO UV activation for CO monitoring. <i>IEEE Sensors Journal</i> , 2004 , 4, 17-20	4	37
69	Stable and very sensitive gas sensor based on novel mixed-metal oxides 2004 ,		1
68	Surface photovoltage studies of porous silicon in presence of polluting gases: toward a selective gas sensor 2003 , 5222, 12		
67	In ₂ O ₃ Thin Films Obtained Through a Chemical Complexation Based Sol-Gel Process and Their Application as Gas Sensor Devices. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 741-744	2.3	36
66	Structural and gas response characterization of nano-size SnO ₂ films deposited by SILD method. <i>Sensors and Actuators B: Chemical</i> , 2003 , 96, 602-609	8.5	61
65	Composition influence on the properties of sputtered Sn ₂ W ₂ O films. <i>Sensors and Actuators B: Chemical</i> , 2003 , 89, 225-231	8.5	17
64	Influence of chemical composition and structural factors of Fe ₂ O ₃ /In ₂ O ₃ sensors on their selectivity and sensitivity to ethanol. <i>Sensors and Actuators B: Chemical</i> , 2003 , 96, 498-503	8.5	93

63	Multiparametric porous silicon gas sensors with improved quality and sensitivity. <i>Physica Status Solidi A</i> , 2003 , 197, 523-527		27
62	Gas-sensitive properties of thin film heterojunction structures based on Fe ₂ O ₃ /TiO ₂ nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2003 , 93, 422-430	8.5	71
61	Multiparametric Porous Silicon Sensors. <i>Sensors</i> , 2002 , 2, 121-126	3.8	72
60	Selectivity enhancement of SnO ₂ sensors by means of operating temperature modulation. <i>Thin Solid Films</i> , 2002 , 418, 2-8	2.2	54
59	Nanostructured mixed oxides compounds for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2002 , 84, 26-32	8.5	90
58	Selective semiconductor gas sensor based on surface photovoltage 2002 ,		2
57	Stable and highly sensitive gas sensors based on semiconducting oxide nanobelts. <i>Applied Physics Letters</i> , 2002 , 81, 1869-1871	3.4	1245
56	Thermal treatment stabilization processes in SnO ₂ /sub 2/ thin films catalyzed with Au and Pt. <i>IEEE Sensors Journal</i> , 2002 , 2, 102-106	4	10
55	Front-side micromachined porous silicon nitrogen dioxide gas sensor. <i>Thin Solid Films</i> , 2001 , 391, 261-264.	2	50
54	CO and NO ₂ response of tin oxide silicon doped thin films. <i>Sensors and Actuators B: Chemical</i> , 2001 , 76, 270-274	8.5	34
53	A novel porous silicon sensor for detection of sub-ppm NO ₂ concentrations. <i>Sensors and Actuators B: Chemical</i> , 2001 , 77, 62-66	8.5	91
52	On the role of catalytic additives in gas-sensitivity of SnO ₂ -Mo based thin film sensors. <i>Sensors and Actuators B: Chemical</i> , 2001 , 77, 268-274	8.5	44
51	UV light activation of tin oxide thin films for NO ₂ sensing at low temperatures. <i>Sensors and Actuators B: Chemical</i> , 2001 , 78, 73-77	8.5	228
50	Semiconductor MoO ₃ /TiO ₂ thin film gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2001 , 77, 472-477	8.5	72
49	Influence of gaseous species transport on the response of solid state gas sensors within enclosures. <i>Sensors and Actuators B: Chemical</i> , 2001 , 78, 144-150	8.5	14
48	Monitoring penetration of ethanol in a porous silicon microcavity by photoluminescence interferometry. <i>Applied Physics Letters</i> , 2001 , 78, 3744-3746	3.4	29
47	Towards a Deeper Comprehension of the Interaction Mechanisms between Mesoporous Silicon and NO ₂ . <i>Physica Status Solidi A</i> , 2000 , 182, 465-471		12
46	The aging effect on SnO ₂ /Au thin film sensors: electrical and structural characterization. <i>Thin Solid Films</i> , 2000 , 371, 249-253	2.2	75

45	Titanium dioxide thin films prepared for alcohol microsensor applications. <i>Sensors and Actuators B: Chemical</i> , 2000 , 66, 139-141	8.5	79
44	Carbon monoxide response of molybdenum oxide thin films deposited by different techniques. <i>Sensors and Actuators B: Chemical</i> , 2000 , 68, 168-174	8.5	64
43	Preparation and characterisation of tungsten sensors. <i>Sensors and Actuators B: Chemical</i> , 2000 , 65, 264-266	8.5	20
42	Gas detection with a porous silicon based sensor. <i>Sensors and Actuators B: Chemical</i> , 2000 , 65, 257-259	8.5	48
41	Investigation on the O ₃ sensitivity properties of WO ₃ thin films prepared by sol-gel, thermal evaporation and r.f. sputtering techniques. <i>Sensors and Actuators B: Chemical</i> , 2000 , 64, 182-188	8.5	136
40	The Features of thin film and ceramic sensors at the detection of CO and NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2000 , 68, 344-350	8.5	53
39	Gold-catalysed porous silicon for NO _x sensing. <i>Sensors and Actuators B: Chemical</i> , 2000 , 68, 74-80	8.5	39
38	Data preprocessing enhances the classification of different brands of Espresso coffee with an electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2000 , 69, 397-403	8.5	69
37	A time delay neural network for estimation of gas concentrations in a mixture. <i>Sensors and Actuators B: Chemical</i> , 2000 , 65, 267-269	8.5	33
36	Light enhanced gas sensing properties of indium oxide and tin dioxide sensors. <i>Sensors and Actuators B: Chemical</i> , 2000 , 65, 260-263	8.5	188
35	Influence of the completion of oxidation on the long-term response of RGTO SnO ₂ gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2000 , 66, 40-42	8.5	29
34	Sensitivity enhancement towards ethanol and methanol of TiO ₂ films doped with Pt and Nb. <i>Sensors and Actuators B: Chemical</i> , 2000 , 64, 169-174	8.5	71
33	Sensitivity of Porous Silicon Photoluminescence to Low Concentrations of CH ₄ and CO. <i>Journal of Porous Materials</i> , 2000 , 7, 287-290	2.4	24
32	Monitoring reliability of sensors in an array by neural networks. <i>Sensors and Actuators B: Chemical</i> , 2000 , 67, 128-133	8.5	19
31	Very low power consumption micromachined CO sensors. <i>Sensors and Actuators B: Chemical</i> , 1999 , 55, 140-146	8.5	43
30	Electrical and structural properties of RGTO-In ₂ O ₃ sensors for ozone detection. <i>Sensors and Actuators B: Chemical</i> , 1999 , 57, 188-191	8.5	24
29	Effect of nickel ions on sensitivity of In ₂ O ₃ thin film sensors to NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 1999 , 57, 153-158	8.5	44
28	Micromachined gas sensors for environmental pollutants. <i>Microsystem Technologies</i> , 1999 , 6, 54-59	1.7	15

27	Organotin films deposited by laser-induced CVD as active layers in chemical gas sensors. <i>Thin Solid Films</i> , 1998 , 323, 291-295	2.2	33
26	High-precision neural pre-processing for signal analysis of a sensor array. <i>Sensors and Actuators B: Chemical</i> , 1998 , 47, 77-83	8.5	6
25	Conductivity and work function ozone sensors based on indium oxide. <i>Sensors and Actuators B: Chemical</i> , 1998 , 49, 63-67	8.5	38
24	Thin-film gas sensor implemented on a low-power-consumption micromachined silicon structure. <i>Sensors and Actuators B: Chemical</i> , 1998 , 49, 88-92	8.5	54
23	Helium purity control by thin film gas sensors at the NA-48 experiment at CERN. <i>Sensors and Actuators B: Chemical</i> , 1998 , 47, 54-58	8.5	
22	Square and collinear four probe array and Hall measurements on metal oxide thin film gas sensors. <i>Sensors and Actuators B: Chemical</i> , 1998 , 53, 69-75	8.5	18
21	On the Route towards Efficient Light Emitting Diodes Based on Porous Silicon. <i>Solid State Phenomena</i> , 1997 , 54, 27-36	0.4	
20	Identification and quantification of methane and ethyl alcohol in an environment at variable humidity by an hybrid array. <i>Sensors and Actuators B: Chemical</i> , 1997 , 44, 517-520	8.5	16
19	Quantification of H ₂ S and NO ₂ using gas sensor arrays and an artificial neural network. <i>Sensors and Actuators B: Chemical</i> , 1997 , 43, 235-238	8.5	18
18	Hydrogen and humidity sensing properties of C60 thin films. <i>Synthetic Metals</i> , 1996 , 77, 273-275	3.6	28
17	Characterization of a nanosized TiO ₂ gas sensor. <i>Scripta Materialia</i> , 1996 , 7, 709-718		104
16	Photosensitivity activation of SnO ₂ thin film gas sensors at room temperature. <i>Sensors and Actuators B: Chemical</i> , 1996 , 31, 99-103	8.5	94
15	Polyphosphazene membrane as a very sensitive resistive and capacitive humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 1996 , 35, 99-102	8.5	21
14	Study of the effect of the sensor operating temperature on SnO ₂ -based sensor-array performance. <i>Sensors and Actuators B: Chemical</i> , 1995 , 23, 187-191	8.5	17
13	Improvement in signal evaluation methods for semiconductor gas sensors. <i>Sensors and Actuators B: Chemical</i> , 1995 , 27, 267-270	8.5	11
12	A systematic investigation on the use of time-dependent sensor signals in signal-processing techniques. <i>Sensors and Actuators B: Chemical</i> , 1995 , 25, 785-789	8.5	18
11	Complex chemical pattern recognition with sensor array: the discrimination of vintage years of wine. <i>Sensors and Actuators B: Chemical</i> , 1995 , 25, 801-804	8.5	66
10	Frequency effect on highly sensitive No ₂ sensors based on RGTO SnO ₂ (Al) thin films. <i>Sensors and Actuators B: Chemical</i> , 1994 , 19, 497-499	8.5	17

9	Capacitive humidity sensor with controlled performances, based on porous Al ₂ O ₃ thin film grown on SiO ₂ -Si substrate. <i>Sensors and Actuators B: Chemical</i> , 1994 , 19, 551-553	8.5	26
8	Performance evaluation of an SnO ₂ -based sensor array for the quantitative measurement of mixtures of H ₂ S and NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 1994 , 20, 217-224	8.5	25
7	Selective and sensitive humidity sensor based on barium chloride dihydrate. <i>Sensors and Actuators B: Chemical</i> , 1993 , 14, 615-616	8.5	2
6	Oxygen gas sensing properties of undoped and Li-doped SnO ₂ thin films. <i>Sensors and Actuators B: Chemical</i> , 1993 , 13, 117-120	8.5	22
5	Cavitands as selective materials for QMB sensors for nitrobenzene and other aromatic vapours. <i>Sensors and Actuators B: Chemical</i> , 1993 , 13, 302-304	8.5	49
4	A novel PVD technique for the preparation of SnO ₂ thin films as C ₂ H ₅ OH sensors. <i>Sensors and Actuators B: Chemical</i> , 1992 , 7, 721-726	8.5	43
3	Methods for the preparation of NO, NO ₂ and H ₂ sensors based on tin oxide thin films, grown by means of the r.f. magnetron sputtering technique. <i>Sensors and Actuators B: Chemical</i> , 1992 , 8, 79-88	8.5	86
2	A new technique for growing large surface area SnO ₂ thin film (RGTO technique). <i>Semiconductor Science and Technology</i> , 1990 , 5, 1231-1233	1.8	108
1	Metal oxide nanocrystals for gas sensing		1