Isabel GrÃ cia

List of Publications by Year
in descending order

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		87843	133188
184	4,507	38	59
papers	citations	h-index	g-index

185	185	185	4407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review on Ion Mobility Spectrometry. Part 1: current instrumentation. Analyst, The, 2015, 140, 1376-1390.	1.7	359
2	Review on Ion Mobility Spectrometry. Part 2: hyphenated methods and effects of experimental parameters. Analyst, The, 2015, 140, 1391-1410.	1.7	140
3	Micromachined twin gas sensor for CO and O2 quantification based on catalytically modified nano-SnO2. Sensors and Actuators B: Chemical, 2006, 114, 881-892.	4.0	124
4	Multi-range silicon micromachined flow sensor. Sensors and Actuators A: Physical, 2004, 110, 282-288.	2.0	112
5	Thermal and mechanical analysis of micromachined gas sensors. Journal of Micromechanics and Microengineering, 2003, 13, 548-556.	1.5	111
6	Sensitivity and selectivity improvement of rf sputtered WO3 microhotplate gas sensors. Sensors and Actuators B: Chemical, 2006, 113, 241-248.	4.0	101
7	A Parts Per Billion (ppb) Sensor for NO₂ with Microwatt (Î¼W) Power Requirements Based on Micro Light Plates. ACS Sensors, 2019, 4, 822-826.	4.0	85
8	High-temperature low-power performing micromachined suspended micro-hotplate for gas sensing applications. Sensors and Actuators B: Chemical, 2006, 114, 826-835.	4.0	81
9	Gas sensors based on multiwall carbon nanotubes decorated with tin oxide nanoclusters. Sensors and Actuators B: Chemical, 2010, 145, 411-416.	4.0	81
10	Nanoscale Heterostructures Based on Fe₂O₃@WO_{3-x} Nanoneedles and Their Direct Integration into Flexible Transducing Platforms for Toluene Sensing. ACS Applied Materials & Interfaces, 2015, 7, 18638-18649.	4.0	79
11	Chemical warfare agents simulants detection with an optimized SAW sensor array. Sensors and Actuators B: Chemical, 2011, 154, 199-205.	4.0	78
12	Micro-machined WO3-based sensors selective to oxidizing gases. Sensors and Actuators B: Chemical, 2008, 132, 209-215.	4.0	77
13	Measurement of residual stress by slot milling with focused ion-beam equipment. Journal of Micromechanics and Microengineering, 2006, 16, 254-259.	1.5	76
14	Fabrication of WO3 nanodot-based microsensors highly sensitive to hydrogen. Sensors and Actuators B: Chemical, 2010, 149, 352-361.	4.0	71
15	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.	4.0	68
16	Non-selective NDIR array for gas detection. Sensors and Actuators B: Chemical, 2007, 127, 69-73.	4.0	67
17	Detection of SO2 and H2S in CO2 stream by means of WO3-based micro-hotplate sensors. Sensors and Actuators B: Chemical, 2004, 102, 219-225.	4.0	64
18	A micromachined solid state integrated gas sensor for the detection of aromatic hydrocarbons. Sensors and Actuators B: Chemical, 1997, 44, 483-487.	4.0	61

#	Article	IF	Citations
19	Electrical characterization of thermomechanically stable YSZ membranes for micro solid oxide fuel cells applications. Solid State Ionics, 2010, 181, 322-331.	1.3	61
20	Towards a micro-system for monitoring ethylene in warehouses. Sensors and Actuators B: Chemical, 2005, 111-112, 63-70.	4.0	59
21	Digital image correlation of nanoscale deformation fields for local stress measurement in thin films. Nanotechnology, 2006, 17, 5264-5270.	1.3	57
22	Residual Stress Measurement on a MEMS Structure With High-Spatial Resolution. Journal of Microelectromechanical Systems, 2007, 16, 365-372.	1.7	56
23	Ozone monitoring by micro-machined sensors with WO3 sensing films. Sensors and Actuators B: Chemical, 2007, 126, 573-578.	4.0	53
24	Micromachined gas sensors based on tungsten oxide nanoneedles directly integrated via aerosol assisted CVD. Sensors and Actuators B: Chemical, 2014, 198, 210-218.	4.0	53
25	Detection of volatile organic compounds using surface acoustic wave sensors with different polymer coatings. Thin Solid Films, 2004, 467, 234-238.	0.8	51
26	Detection of low NO2 concentrations with low power micromachined tin oxide gas sensors. Sensors and Actuators B: Chemical, 1999, 58, 325-329.	4.0	50
27	Sub-ppm gas sensor detection via spiral Î¼-preconcentrator. Sensors and Actuators B: Chemical, 2008, 132, 149-154.	4.0	49
28	Love-wave sensor array to detect, discriminate and classify chemical warfare agent simulants. Sensors and Actuators B: Chemical, 2012, 175, 173-178.	4.0	49
29	Thermal and mechanical aspects for designing micromachined low-power gas sensors. Journal of Micromechanics and Microengineering, 1997, 7, 247-249.	1.5	48
30	Screen-printed nanoparticle tin oxide films for high-yield sensor microsystems. Sensors and Actuators B: Chemical, 2003, 96, 94-104.	4.0	44
31	Influence of current collectors design on the performance of a silicon-based passive micro direct methanol fuel cell. Journal of Power Sources, 2009, 194, 391-396.	4.0	44
32	Chemoresistive micromachined gas sensors based on functionalized metal oxide nanowires: Performance and reliability. Sensors and Actuators B: Chemical, 2016, 235, 525-534.	4.0	44
33	Gas sensors based on individual indium oxide nanowire. Sensors and Actuators B: Chemical, 2017, 238, 447-454.	4.0	44
34	Discrimination of volatile compounds through an electronic nose based on ZnO SAW sensors. Sensors and Actuators B: Chemical, 2007, 127, 277-283.	4.0	43
35	ZnO Rods with Exposed {100} Facets Grown via a Self-Catalyzed Vaporâ€“Solid Mechanism and Their Photocatalytic and Gas Sensing Properties. ACS Applied Materials & Interfaces, 2016, 8, 33335-33342.	4.0	42
36	Micro light plates for low-power photoactivated (gas) sensors. Applied Physics Letters, 2019, 114, .	1.5	42

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37	Measurement of residual stresses in micromachined structures in a microregion. Applied Physics Letters, 2006, 88, 071910.	1.5	41
38	On-line monitoring of CO2 quality using doped WO3 thin film sensors. Thin Solid Films, 2006, 500, 302-308.	0.8	41
39	Detection of gases with arrays of micromachined tin oxide gas sensors. Sensors and Actuators B: Chemical, 2000, 65, 244-246.	4.0	40
40	Sensitivity improvement of a microcantilever based mass sensor. Microelectronic Engineering, 2009, 86, 1187-1189.	1.1	40
41	Optimized temperature modulation of micro-hotplate gas sensors through pseudorandom binary sequences. IEEE Sensors Journal, 2005, 5, 1369-1378.	2.4	38
42	FIB-based technique for stress characterization on thin films for reliability purposes. Microelectronic Engineering, 2007, 84, 1783-1787.	1.1	37
43	Aerosol assisted chemical vapour deposition of gas sensitive SnO2 and Au-functionalised SnO2 nanorods via a non-catalysed vapour solid (VS) mechanism. Scientific Reports, 2016, 6, 28464.	1.6	37
44	High temperature degradation of Pt/Ti electrodes in micro-hotplate gas sensors. Journal of Micromechanics and Microengineering, 2003, 13, S119-S124.	1.5	35
45	Optimization of SAW sensors with a structure ZnOâ€“SiO2â€“Si to detect volatile organic compounds. Sensors and Actuators B: Chemical, 2006, 118, 356-361.	4.0	35
46	Performance optimization of a passive silicon-based micro-direct methanol fuel cell. Sensors and Actuators B: Chemical, 2008, 132, 540-544.	4.0	35
47	Structural and dimensional control in micromachined integrated solid state gas sensors. Sensors and Actuators B: Chemical, 2000, 69, 314-319.	4.0	34
48	Thermo-mechanical analysis of micro-drop coated gas sensors. Sensors and Actuators A: Physical, 2002, 97-98, 379-385.	2.0	34
49	Optimised temperature modulation of metal oxide micro-hotplate gas sensors through multilevel pseudo random sequences. Sensors and Actuators B: Chemical, 2005, 111-112, 271-280.	4.0	34
50	Detection of volatile organic compounds using flexible gas sensing devices based on tungsten oxide nanostructures functionalized with Au and Pt nanoparticles. Talanta, 2015, 139, 27-34.	2.9	34
51	MEMS-microhotplate-based hydrogen gas sensor utilizing the nanostructured porous-anodic-alumina-supported WO3 active layer. International Journal of Hydrogen Energy, 2013, 38, 8011-8021.	3.8	33
52	ZIF Nanocrystal-Based Surface Acoustic Wave (SAW) Electronic Nose to Detect Diabetes in Human Breath. Biosensors, 2019, 9, 4.	2.3	33
53	Localized growth and in situ integration of nanowires for device applications. Chemical Communications, 2012, 48, 4734.	2.2	32
54	Site-selectively grown SnO2 NWs networks on micromembranes for efficient ammonia sensing in humid conditions. Sensors and Actuators B: Chemical, 2016, 232, 402-409.	4.0	31

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55	Site-Specific Growth and in Situ Integration of Different Nanowire Material Networks on a Single Chip: Toward a Nanowire-Based Electronic Nose for Gas Detection. ACS Sensors, 2018, 3, 727-734.	4.0	31
56	On the effects of the materials and the noble metal additives to NO2 detection. Sensors and Actuators B: Chemical, 2006, 118, 311-317.	4.0	30
57	Microsensors based on Ptâ€“nanoparticle functionalised tungsten oxide nanoneedles for monitoring hydrogen sulfide. RSC Advances, 2014, 4, 1489-1495.	1.7	30
58	Results on the reliability of silicon micromachined structures for semiconductor gas sensors. Sensors and Actuators B: Chemical, 2001, 77, 409-415.	4.0	29
59	Membrane-suspended microgrid as a gas preconcentrator for chromatographic applications. Sensors and Actuators A: Physical, 2007, 135, 192-196.	2.0	29
60	Multilayer ISFET membranes for microsystems applications. Sensors and Actuators B: Chemical, 1996, 35, 136-140.	4.0	28
61	Detection of bacteriophages in dynamic mode using a Love-wave immunosensor with microfluidics technology. Sensors and Actuators B: Chemical, 2013, 185, 218-224.	4.0	28
62	A novel methodology for the manufacturability of robust CMOS semiconductor gas sensor arrays. Sensors and Actuators B: Chemical, 2001, 77, 395-400.	4.0	27
63	Single-walled carbon nanotube microsensors for nerve agent simulant detection. Sensors and Actuators B: Chemical, 2011, 157, 253-259.	4.0	27
64	Love-Wave Sensors Combined with Microfluidics for Fast Detection of Biological Warfare Agents. Sensors, 2014, 14, 12658-12669.	2.1	25
65	Sputtered and screen-printed metal oxide-based integrated micro-sensor arrays for the quantitative analysis of gas mixtures. Sensors and Actuators B: Chemical, 2004, 103, 23-30.	4.0	24
66	Array of Love-wave sensors based on quartz/Novolac to detect CWA simulants. Talanta, 2011, 85, 1442-1447.	2.9	24
67	Planar Thermoelectric Microgenerators Based on Silicon Nanowires. Journal of Electronic Materials, 2011, 40, 851-855.	1.0	24
68	Improvement of the gas sensor response via silicon Î¼-preconcentrator. Sensors and Actuators B: Chemical, 2007, 127, 288-294.	4.0	23
69	Pinhole-free YSZ self-supported membranes for micro solid oxide fuel cell applications. Solid State Ionics, 2012, 216, 64-68.	1.3	23
70	Nanocrystalline Tin Oxide Nanofibers Deposited by a Novel Focused Electrospinning Method. Application to the Detection of TATP Precursors. Sensors, 2014, 14, 24231-24243.	2.1	23
71	Localized aerosol-assisted CVD of nanomaterials for the fabrication of monolithic gas sensor microarrays. Sensors and Actuators B: Chemical, 2015, 216, 374-383.	4.0	23
72	Low temperature humidity sensor based on Ge nanowires selectively grown on suspended microhotplates. Sensors and Actuators B: Chemical, 2017, 243, 669-677.	4.0	23

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73	Portable Low-Cost Electronic Nose Based on Surface Acoustic Wave Sensors for the Detection of BTX Vapors in Air. Sensors, 2019, 19, 5406.	2.1	23
74	A surface micromachining process for the development of a medium-infrared tuneable Fabryâ€“Perot interferometer. Sensors and Actuators A: Physical, 2004, 113, 39-47.	2.0	22
75	Characterization of an array of Love-wave gas sensors developed using electrospinning technique to deposit nanofibers as sensitive layers. Talanta, 2014, 120, 408-412.	2.9	22
76	Structural studies of zinc oxide films grown by RF magnetron sputtering. Synthetic Metals, 2005, 148, 37-41.	2.1	21
77	Nanoparticle metal-oxide films for micro-hotplate-based gas sensor systems. IEEE Sensors Journal, 2005, 5, 798-809.	2.4	20
78	Love Wave Sensors with Silver Modified Polypyrrole Nanoparticles for VOCs Monitoring. Sensors, 2020, 20, 1432.	2.1	20
79	A compact optical multichannel system for ethylene monitoring. Microsystem Technologies, 2008, 14, 637-644.	1.2	19
80	Micro-machined WO3-based sensors with improved characteristics. Sensors and Actuators B: Chemical, 2009, 140, 356-362.	4.0	19
81	Residual Stress of Free-Standing Membranes of Yttria-Stabilized Zirconia for Micro Solid Oxide Fuel Cell Applications. Journal of Nanoscience and Nanotechnology, 2010, 10, 1327-1337.	0.9	19
82	Assessment of the final metrological characteristics of a MOEMS-based NDIR spectrometer through system modeling and data processing. IEEE Sensors Journal, 2003, 3, 587-594.	2.4	18
83	Exploration of the metrological performance of a gas detector based on an array of unspecific infrared filters. Sensors and Actuators B: Chemical, 2006, 116, 183-191.	4.0	18
84	Comparison of two types of acoustic biosensors to detect immunoreactions: Love-wave sensor working in dynamic mode and QCM working in static mode. Sensors and Actuators B: Chemical, 2013, 189, 123-129.	4.0	18
85	Pulverisation method for active layer coating on microsystems. Sensors and Actuators B: Chemical, 2002, 84, 78-82.	4.0	17
86	Microfabrication of flexible gas sensing devices based on nanostructured semiconducting metal oxides. Sensors and Actuators A: Physical, 2014, 219, 88-93.	2.0	16
87	Fine-tuning of the resonant frequency using a hybrid coupler and fixed components in SAW oscillators for gas detection. Sensors and Actuators B: Chemical, 2004, 103, 139-144.	4.0	15
88	Qualitative and quantitative substance discrimination using a CMOS compatible non-specific NDIR microarray. Sensors and Actuators B: Chemical, 2009, 141, 396-403.	4.0	15
89	New approach for batch microfabrication of silicon-based micro fuel cells. Microsystem Technologies, 2014, 20, 341-348.	1.2	15
90	AFM thermal imaging as an optimization tool for a bulk micromachined thermopile. Sensors and Actuators A: Physical, 2004, 115, 440-446.	2.0	14

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91	Finite-element analysis of a miniaturized ion mobility spectrometer for security applications. Sensors and Actuators B: Chemical, 2012, 170, 13-20.	4.0	14
92	Cerium Oxide-Tungsten Oxide Core-Shell Nanowire-Based Microsensors Sensitive to Acetone. Biosensors, 2018, 8, 116.	2.3	14
93	Feasibility of a flip-chip approach to integrate an IR filter and an IR detector in a future gas detection cell. Microsystem Technologies, 2004, 10, 382-386.	1.2	13
94	Characterization of thermal conductivity in thin film multilayered membranes. Thin Solid Films, 2005, 484, 328-333.	0.8	13
95	Electrical characterization of the aging of sealing materials for ISFET chemical sensors. Sensors and Actuators B: Chemical, 1995, 24, 206-210.	4.0	12
96	Propagation of acoustic waves in metal oxide nanoparticle layers with catalytic metals for selective gas detection. Sensors and Actuators B: Chemical, 2015, 217, 65-71.	4.0	12
97	Use of boron heavily doped silicon slabs for gas sensors based on free-standing membranes. Sensors and Actuators B: Chemical, 2008, 130, 538-545.	4.0	11
98	Stability and alignment of MCC/IMS devices. International Journal for Ion Mobility Spectrometry, 2012, 15, 41-46.	1.4	11
99	Catalyst-Free Vapor-Phase Method for Direct Integration of Gas Sensing Nanostructures with Polymeric Transducing Platforms. Journal of Nanomaterials, 2014, 2014, 1-9.	1.5	11
100	Mirror electrostatic actuation of a medium-infrared tuneable Fabry-Perot interferometer based on a surface micromachining process. Sensors and Actuators A: Physical, 2005, 123-124, 584-589.	2.0	10
101	Mechanical characterization of thermal flow sensors membranes. Sensors and Actuators A: Physical, 2006, 125, 260-266.	2.0	10
102	Hybrid polymer electrolyte membrane for silicon-based micro fuel cells integration. Journal of Micromechanics and Microengineering, 2009, 19, 065006.	1.5	10
103	ZnO Structures with Surface Nanoscale Interfaces Formed by Au, Fe2O3, or Cu2O Modifier Nanoparticles: Characterization and Gas Sensing Properties. Sensors, 2021, 21, 4509.	2.1	10
104	Multisensor chip for gas concentration monitoring in a flowing gas mixture. Sensors and Actuators B: Chemical, 2005, 107, 688-694.	4.0	8
105	Real-Time Characterization of Electrospun PVP Nanofibers as Sensitive Layer of a Surface Acoustic Wave Device for Gas Detection. Journal of Nanomaterials, 2014, 2014, 1-8.	1.5	8
106	Acoustic Sensors Based on Amino-Functionalized Nanoparticles to Detect Volatile Organic Solvents. Sensors, 2017, 17, 2624.	2.1	8
107	Influence of Mg Doping Levels on the Sensing Properties of SnO2 Films. Sensors, 2020, 20, 2158.	2.1	8
108	On-line determination of the degradation of ISFET chemical sensors. Sensors and Actuators B: Chemical, 1993, 15, 218-222.	4.0	7

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109	Influence of the internal gas flow distribution on the efficiency of a Î¼-preconcentrator. Sensors and Actuators B: Chemical, 2008, 135, 52-56.	4.0	7
110	Aerosol-assisted Chemical Vapor Deposition of Metal Oxide Structures: Zinc Oxide Rods. Journal of Visualized Experiments, 2017, , .	0.2	7
111	Electron beam lithography for contacting single nanowires on non-flat suspended substrates. Sensors and Actuators B: Chemical, 2019, 286, 616-623.	4.0	7
112	A high sensitivity silicon microcantilever based mass sensor. , 2008, , .		6
113	Electro-thermal simulation and characterization of preconcentration membranes. Sensors and Actuators A: Physical, 2011, 172, 124-128.	2.0	6
114	Gas Nanosensors Based on Individual Indium Oxide Nanostructures. Procedia Engineering, 2015, 120, 795-798.	1.2	6
115	Gas Sensors Based on Porous Ceramic Bodies of MSnO3 Perovskites (M = Ba, Ca, Zn): Formation and Sensing Properties towards Ethanol, Acetone, and Toluene Vapours. Molecules, 2022, 27, 2889.	1.7	6
116	Manufacturing and packaging of sensors for their integration in a vertical MCM microsystem for biomedical applications. Journal of Microelectromechanical Systems, 2001, 10, 569-579.	1.7	5
117	Optimized design of a SAW sensor array for chemical warfare agents simulants detection. Procedia Chemistry, 2009, 1, 232-235.	0.7	5
118	Monolithic micro fuel cells as integrated power sources in MEMS. , 2009, , .		4
119	Locally Grown SnO 2 NWs as Low Power Ammonia Sensor. Procedia Engineering, 2015, 120, 215-219.	1.2	4
120	Individual Gallium Oxide Nanowires for Humidity Sensing at Low Temperature. Proceedings (mdpi), 2017, 1, .	0.2	4
121	Polypyrrole Based Love-Wave Gas Sensor Devices with Enhanced Properties to Ammonia. Proceedings (mdpi), 2018, 2, .	0.2	4
122	<title>Low-cost thermal flow sensor for home-appliances applications</title>. , 2002, , .		3
123	Thermal and mechanical simulation of bulk resonators. , 0, , .		3
124	Thermal AFM: a thermopile case study. Ultramicroscopy, 2004, 101, 153-159.	0.8	3
125	A glass/silicon technology for low-power robust gas sensors. IEEE Sensors Journal, 2004, 4, 195-206.	2.4	3
126	Micro-cantilevers for gas sensing. , 0, , .		3

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127	Improvement of the gas sensing properties of rf sputtered WO/sub 3/ thin films using different dopants. , 0, , .		3
128	Thermopile sensor array for an electronic nose integrated non-selective NDIR gas detection system. , 0, , .		3
129	A H<inf>2</inf> microsensor based on nanocolumnar tungsten oxide grown by template-assisted anodization. , 2009, , .		3
130	Modelling a P-FAIMS with multiphysics FEM. Journal of Mathematical Chemistry, 2012, 50, 359-373.	0.7	3
131	Localized heating to tungsten oxide nanostructures deposition on gas microsensor arrays via aerosol assisted CVD. , 2013, , .		3
132	Tuning of the Humidity-Interference in Gas Sensitive Columnar ZnO Structures. Proceedings (mdpi), 2017, 1, 417.	0.2	3
133	High-Performance Ammonia Sensor at Room Temperature Based on a Love-Wave Device with Fe2O3@WO3â^'x Nanoneedles. Proceedings (mdpi), 2017, 1, .	0.2	3
134	Optimized multi-frequency temperature modulation of micro-hotplate gas sensors. , 0, , .		2
135	Microsystems for the agrofood field. Journal of Physics: Conference Series, 2005, 10, 267-272.	0.3	2
136	Thermal conductivity determination of micromachined membranes. , 0, , .		2
137	Modeling vapor detection in a micro ion mobility spectrometer for security applications. Procedia Engineering, 2010, 5, 1236-1239.	1.2	2
138	Discrimination and classification of chemical warfare agent simulants using a Love-wave sensor array. Procedia Engineering, 2011, 25, 23-26.	1.2	2
139	Influence of operational background emissions on breath analysis using MCC/IMS devices. International Journal for Ion Mobility Spectrometry, 2012, 15, 69-78.	1.4	2
140	What is a good control group?. International Journal for Ion Mobility Spectrometry, 2013, 16, 191-198.	1.4	2
141	Ferric Oxide Nanoparticle-functionalized Tungsten Oxide Nanoneedles and their Gas Sensing Properties. Procedia Engineering, 2015, 120, 443-446.	1.2	2
142	Low-cost Fabrication of Zero-power Metal Oxide Nanowire Gas Sensors: Trends and Challenges. Procedia Engineering, 2015, 120, 488-491.	1.2	2
143	Gas Microsensors Based on Cerium Oxide Modified Tungsten Oxide Nanowires. , 2018, , .		2
144	Room Temperature Ethanol Microsensors Based on Silanized Tungsten Oxide Nanowires. Proceedings (mdpi), 2018, 2, 790.	0.2	2

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145	Nitrogen Dioxide Selective Sensor for Humid Environments Based on Octahedral Indium Oxide. Frontiers in Sensors, 2021, 2, .	1.7	2
146	<title>Low-power micromachined structures for gas sensors with improved robustness</title>. , 2000, , .		1
147	<title>Thermal-induced stress in dielectric membranes suitable for micromechanized gas sensors</title>. , 2001, 4408, 81.		1
148	MLS based temperature modulation of micro-hotplates. , 0, , .		1
149	Semiconductor gas sensor compatibility with CMOS technologies. , 2003, , .		1
150	Optical simulation of a MOEMS based tuneable Fabry-Perot interferometer. , 0, , .		1
151	<title>3D deformation analysis of flow and gas sensors membranes for reliability assessment</title>. , 2005, , .		1
152	Dimension-Scaling of Microcantilevers Resonators. , 2007, , .		1
153	YSZ Free-standing Membranes for Silicon-based Micro SOFCs. ECS Transactions, 2009, 25, 931-938.	0.3	1
154	Saw Sensor Array for Chemical Warfare Agent Simulants. , 2009, , .		1
155	COMSOL Simulation of acetone ions in Planar Ion Mobility Spectrometer. , 2009, , .		1
156	Planar Micro Ion Mobility Spectrometer modelling for explosives detection. , 2011, , .		1
157	Benzene detection on nanostructured tungsten oxide MEMS based gas sensors. , 2012, , .		1
158	A planar micro-concentrator/injector for low power consumption microchromatographic analysis of benzene and 1,3 butadiene. Microsystem Technologies, 2012, 18, 489-495.	1.2	1
159	Love Wave Gas Sensor based on Surface-functionalized Nanoparticles. Procedia Engineering, 2015, 120, 606-609.	1.2	1
160	Localized and In-Situ Integration of Different Nanowire Materials for Electronic Nose Applications. Proceedings (mdpi), 2018, 2, 957.	0.2	1
161	Compatibility of gas and flow sensor technology fabrication. , 2003, , .		0
162	FEM simulations to estimate the polymer thickness deposited over mechanical resonators. , 0, , .		0

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163	Characterization and optimization of ZnO films for SAW devices. , 0, , .		0
164	Gas sensors micro-array for air quality monitoring based on pure and doped SnO/sub 2/ thick sensing films. , 0, , .		0
165	Mechanical characterisation of micro-resonator structures. , 0, , .		0
166	FEM Simulation and Characterization of Microcantilevers Resonators. , 2006, , .		0
167	A Silicon-Based Direct Methanol Micro Fuel Cell. , 2007, , .		0
168	Spiral μ-preconcentrator for gas sensor detection in the ppb range. Proceedings of IEEE Sensors, 2007, , .	1.0	0
169	Silicon μ-preconcentrator for improved gas detection. , 2007, , .		0
170	Development and Optimization of Pre-Concentrator for Enhanced Benzene Detection. , 2007, , .		0
171	Towards a monolithic micro direct methanol fuel cell. , 2008, , .		0
172	Preconcentrator-based sensor Ã‚Âµ-system for low-level benzene detection. Proceedings of SPIE, 2008, , .	0.8	0
173	Electro-thermal simulation and characterization of preconcentration membranes. Procedia Engineering, 2010, 5, 1264-1267.	1.2	0
174	Simulation of a planar micro Ion Mobility Spectrometer for security applications. , 2010, , .		0
175	Design and fabrication of Love-wave sensors: An experimental study. , 2011, , .		0
176	Comparative Evaluation between Two Acoustic Immunosensors: Love-wave and QCM, and Systems of Measurement: Dynamic and Static. Procedia Engineering, 2012, 47, 174-177.	1.2	0
177	Sensors and Micro and Nano Technologies for the Food Sector. , 2013, , .		0
178	Microfluidics applied to Love-wave devices to detect biological warfare agents in dynamic mode. , 2013, , .		0
179	Flexible gas sensing devices with directly grown tungsten oxide nanoneedles via AACVD. , 2015, , .		0
180	Liquid characterization by means of Love-wave device combined with microfluidic platform. , 2015, , .		0

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181	VOC-sensitive structures with nanoscale heterojunctions based on WO3-x nanoneedles and Fe2O3 nanoparticles. Monatshefte FÃ¼r Chemie, 2017, 148, 1921-1927.	0.9	0
182	Different Nanowire Materials Localized Growth and In-Situ Integration for Electronic Nose Applications. , 2018, , .		0
183	A Light-Activated Micropower Gas Sensor for the Detection of NO2 Down to the Parts Per Billion Range. , 2019, , .		0
184	ZnO Nanorods and Their Modification with Au Nanoparticles for UV-light Activated Gas Sensing. , 2021, , .		0