

Isabel GrÃ cia

List of Publications by Year in descending order

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184
papers

4,507
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87843

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4407
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas Sensors Based on Porous Ceramic Bodies of MSnO ₃ Perovskites (M = Ba, Ca, Zn): Formation and Sensing Properties towards Ethanol, Acetone, and Toluene Vapours. <i>Molecules</i> , 2022, 27, 2889.	1.7	6
2	Nitrogen Dioxide Selective Sensor for Humid Environments Based on Octahedral Indium Oxide. <i>Frontiers in Sensors</i> , 2021, 2, .	1.7	2
3	ZnO Nanorods and Their Modification with Au Nanoparticles for UV-light Activated Gas Sensing. , 2021, , .		0
4	ZnO Structures with Surface Nanoscale Interfaces Formed by Au, Fe ₂ O ₃ , or Cu ₂ O Modifier Nanoparticles: Characterization and Gas Sensing Properties. <i>Sensors</i> , 2021, 21, 4509.	2.1	10
5	Love Wave Sensors with Silver Modified Polypyrrole Nanoparticles for VOCs Monitoring. <i>Sensors</i> , 2020, 20, 1432.	2.1	20
6	Influence of Mg Doping Levels on the Sensing Properties of SnO ₂ Films. <i>Sensors</i> , 2020, 20, 2158.	2.1	8
7	A Light-Activated Micropower Gas Sensor for the Detection of NO ₂ Down to the Parts Per Billion Range. , 2019, , .		0
8	Micro light plates for low-power photoactivated (gas) sensors. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	42
9	A Parts Per Billion (ppb) Sensor for NO ₂ with Microwatt (1/4W) Power Requirements Based on Micro Light Plates. <i>ACS Sensors</i> , 2019, 4, 822-826.	4.0	85
10	Portable Low-Cost Electronic Nose Based on Surface Acoustic Wave Sensors for the Detection of BTX Vapors in Air. <i>Sensors</i> , 2019, 19, 5406.	2.1	23
11	Electron beam lithography for contacting single nanowires on non-flat suspended substrates. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 616-623.	4.0	7
12	ZIF Nanocrystal-Based Surface Acoustic Wave (SAW) Electronic Nose to Detect Diabetes in Human Breath. <i>Biosensors</i> , 2019, 9, 4.	2.3	33
13	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. <i>ACS Sensors</i> , 2018, 3, 727-734.	4.0	31
14	Gas Microsensors Based on Cerium Oxide Modified Tungsten Oxide Nanowires. , 2018, , .		2
15	Room Temperature Ethanol Microsensors Based on Silanized Tungsten Oxide Nanowires. <i>Proceedings (mdpi)</i> , 2018, 2, 790.	0.2	2
16	Localized and In-Situ Integration of Different Nanowire Materials for Electronic Nose Applications. <i>Proceedings (mdpi)</i> , 2018, 2, 957.	0.2	1
17	Polypyrrole Based Love-Wave Gas Sensor Devices with Enhanced Properties to Ammonia. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	4
18	Cerium Oxide-Tungsten Oxide Core-Shell Nanowire-Based Microsensors Sensitive to Acetone. <i>Biosensors</i> , 2018, 8, 116.	2.3	14

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19	Different Nanowire Materials Localized Growth and In-Situ Integration for Electronic Nose Applications. , 2018, , .		0
20	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
21	VOC-sensitive structures with nanoscale heterojunctions based on WO _{3-x} nanoneedles and Fe ₂ O ₃ nanoparticles. Monatshefte für Chemie, 2017, 148, 1921-1927.	0.9	0
22	Aerosol-assisted Chemical Vapor Deposition of Metal Oxide Structures: Zinc Oxide Rods. Journal of Visualized Experiments, 2017, , .	0.2	7
23	Gas sensors based on individual indium oxide nanowire. Sensors and Actuators B: Chemical, 2017, 238, 447-454.	4.0	44
24	Tuning of the Humidity-Interference in Gas Sensitive Columnar ZnO Structures. Proceedings (mdpi), 2017, 1, 417.	0.2	3
25	High-Performance Ammonia Sensor at Room Temperature Based on a Love-Wave Device with Fe ₂ O ₃ @WO _{3-x} Nanoneedles. Proceedings (mdpi), 2017, 1, .	0.2	3
26	Acoustic Sensors Based on Amino-Functionalized Nanoparticles to Detect Volatile Organic Solvents. Sensors, 2017, 17, 2624.	2.1	8
27	Individual Gallium Oxide Nanowires for Humidity Sensing at Low Temperature. Proceedings (mdpi), 2017, 1, .	0.2	4
28	ZnO Rods with Exposed {100} Facets Grown via a Self-Catalyzed Vapor-Solid Mechanism and Their Photocatalytic and Gas Sensing Properties. ACS Applied Materials & Interfaces, 2016, 8, 33335-33342.	4.0	42
29	Aerosol assisted chemical vapour deposition of gas sensitive SnO ₂ and Au-functionalised SnO ₂ nanorods via a non-catalysed vapour solid (VS) mechanism. Scientific Reports, 2016, 6, 28464.	1.6	37
30	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
31	Site-selectively grown SnO ₂ NWs networks on micromembranes for efficient ammonia sensing in humid conditions. Sensors and Actuators B: Chemical, 2016, 232, 402-409.	4.0	31
32	Ferric Oxide Nanoparticle-functionalized Tungsten Oxide Nanoneedles and their Gas Sensing Properties. Procedia Engineering, 2015, 120, 443-446.	1.2	2
33	Love Wave Gas Sensor based on Surface-functionalized Nanoparticles. Procedia Engineering, 2015, 120, 606-609.	1.2	1
34	Flexible gas sensing devices with directly grown tungsten oxide nanoneedles via AACVD. , 2015, , .		0
35	Gas Nanosensors Based on Individual Indium Oxide Nanostructures. Procedia Engineering, 2015, 120, 795-798.	1.2	6
36	Locally Grown SnO ₂ NWs as Low Power Ammonia Sensor. Procedia Engineering, 2015, 120, 215-219.	1.2	4

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37	Low-cost Fabrication of Zero-power Metal Oxide Nanowire Gas Sensors: Trends and Challenges. <i>Procedia Engineering</i> , 2015, 120, 488-491.	1.2	2
38	Detection of volatile organic compounds using flexible gas sensing devices based on tungsten oxide nanostructures functionalized with Au and Pt nanoparticles. <i>Talanta</i> , 2015, 139, 27-34.	2.9	34
39	Localized aerosol-assisted CVD of nanomaterials for the fabrication of monolithic gas sensor microarrays. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 374-383.	4.0	23
40	Propagation of acoustic waves in metal oxide nanoparticle layers with catalytic metals for selective gas detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 217, 65-71.	4.0	12
41	Nanoscale Heterostructures Based on Fe ₂ O ₃ @WO _{3-x} Nanoneedles and Their Direct Integration into Flexible Transducing Platforms for Toluene Sensing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18638-18649.	4.0	79
42	Liquid characterization by means of Love-wave device combined with microfluidic platform. , 2015, , .		0
43	Review on Ion Mobility Spectrometry. Part 1: current instrumentation. <i>Analyst, The</i> , 2015, 140, 1376-1390.	1.7	359
44	Review on Ion Mobility Spectrometry. Part 2: hyphenated methods and effects of experimental parameters. <i>Analyst, The</i> , 2015, 140, 1391-1410.	1.7	140
45	Real-Time Characterization of Electrospun PVP Nanofibers as Sensitive Layer of a Surface Acoustic Wave Device for Gas Detection. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-8.	1.5	8
46	Catalyst-Free Vapor-Phase Method for Direct Integration of Gas Sensing Nanostructures with Polymeric Transducing Platforms. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-9.	1.5	11
47	Nanocrystalline Tin Oxide Nanofibers Deposited by a Novel Focused Electrospinning Method. Application to the Detection of TATP Precursors. <i>Sensors</i> , 2014, 14, 24231-24243.	2.1	23
48	Love-Wave Sensors Combined with Microfluidics for Fast Detection of Biological Warfare Agents. <i>Sensors</i> , 2014, 14, 12658-12669.	2.1	25
49	New approach for batch microfabrication of silicon-based micro fuel cells. <i>Microsystem Technologies</i> , 2014, 20, 341-348.	1.2	15
50	Micromachined gas sensors based on tungsten oxide nanoneedles directly integrated via aerosol assisted CVD. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 210-218.	4.0	53
51	Microsensors based on Pt ⁴⁺ nanoparticle functionalised tungsten oxide nanoneedles for monitoring hydrogen sulfide. <i>RSC Advances</i> , 2014, 4, 1489-1495.	1.7	30
52	Characterization of an array of Love-wave gas sensors developed using electrospinning technique to deposit nanofibers as sensitive layers. <i>Talanta</i> , 2014, 120, 408-412.	2.9	22
53	Microfabrication of flexible gas sensing devices based on nanostructured semiconducting metal oxides. <i>Sensors and Actuators A: Physical</i> , 2014, 219, 88-93.	2.0	16
54	Sensors and Micro and Nano Technologies for the Food Sector. , 2013, , .		0

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55	What is a good control group?. International Journal for Ion Mobility Spectrometry, 2013, 16, 191-198.	1.4	2
56	Microfluidics applied to Love-wave devices to detect biological warfare agents in dynamic mode. , 2013, , .		0
57	Localized heating to tungsten oxide nanostructures deposition on gas microsensor arrays via aerosol assisted CVD. , 2013, , .		3
58	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
59	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
60	MEMS-microhotplate-based hydrogen gas sensor utilizing the nanostructured porous-anodic-alumina-supported WO ₃ active layer. International Journal of Hydrogen Energy, 2013, 38, 8011-8021.	3.8	33
61	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
62	Benzene detection on nanostructured tungsten oxide MEMS based gas sensors. , 2012, , .		1
63	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
64	Localized growth and in situ integration of nanowires for device applications. Chemical Communications, 2012, 48, 4734.	2.2	32
65	Finite-element analysis of a miniaturized ion mobility spectrometer for security applications. Sensors and Actuators B: Chemical, 2012, 170, 13-20.	4.0	14
66	Stability and alignment of MCC/IMS devices. International Journal for Ion Mobility Spectrometry, 2012, 15, 41-46.	1.4	11
67	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
68	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
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	Modelling a P-FAIMS with multiphysics FEM. Journal of Mathematical Chemistry, 2012, 50, 359-373.	0.7	3
71	Design and fabrication of Love-wave sensors: An experimental study. , 2011, , .		0
72	Discrimination and classification of chemical warfare agent simulants using a Love-wave sensor array. Procedia Engineering, 2011, 25, 23-26.	1.2	2

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73	Array of Love-wave sensors based on quartz/Novolac to detect CWA simulants. Talanta, 2011, 85, 1442-1447.	2.9	24
74	Electro-thermal simulation and characterization of preconcentration membranes. Sensors and Actuators A: Physical, 2011, 172, 124-128.	2.0	6
75	Planar Thermoelectric Microgenerators Based on Silicon Nanowires. Journal of Electronic Materials, 2011, 40, 851-855.	1.0	24
76	Chemical warfare agents simulants detection with an optimized SAW sensor array. Sensors and Actuators B: Chemical, 2011, 154, 199-205.	4.0	78
77	Single-walled carbon nanotube microsensors for nerve agent simulant detection. Sensors and Actuators B: Chemical, 2011, 157, 253-259.	4.0	27
78	Planar Micro Ion Mobility Spectrometer modelling for explosives detection. , 2011, , .		1
79	Residual Stress of Free-Standing Membranes of Ytria-Stabilized Zirconia for Micro Solid Oxide Fuel Cell Applications. Journal of Nanoscience and Nanotechnology, 2010, 10, 1327-1337.	0.9	19
80	Electrical characterization of thermomechanically stable YSZ membranes for micro solid oxide fuel cells applications. Solid State Ionics, 2010, 181, 322-331.	1.3	61
81	Modeling vapor detection in a micro ion mobility spectrometer for security applications. Procedia Engineering, 2010, 5, 1236-1239.	1.2	2
82	Electro-thermal simulation and characterization of preconcentration membranes. Procedia Engineering, 2010, 5, 1264-1267.	1.2	0
83	Gas sensors based on multiwall carbon nanotubes decorated with tin oxide nanoclusters. Sensors and Actuators B: Chemical, 2010, 145, 411-416.	4.0	81
84	Fabrication of WO ₃ nanodot-based microsensors highly sensitive to hydrogen. Sensors and Actuators B: Chemical, 2010, 149, 352-361.	4.0	71
85	Simulation of a planar micro Ion Mobility Spectrometer for security applications. , 2010, , .		0
86	Hybrid polymer electrolyte membrane for silicon-based micro fuel cells integration. Journal of Micromechanics and Microengineering, 2009, 19, 065006.	1.5	10
87	YSZ Free-standing Membranes for Silicon-based Micro SOFCs. ECS Transactions, 2009, 25, 931-938.	0.3	1
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	Micro-machined WO ₃ -based sensors with improved characteristics. Sensors and Actuators B: Chemical, 2009, 140, 356-362.	4.0	19
90	Sensitivity improvement of a microcantilever based mass sensor. Microelectronic Engineering, 2009, 86, 1187-1189.	1.1	40

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91	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
92	Optimized design of a SAW sensor array for chemical warfare agents simulants detection. Procedia Chemistry, 2009, 1, 232-235.	0.7	5
93	Monolithic micro fuel cells as integrated power sources in MEMS. , 2009, , .		4
94	Saw Sensor Array for Chemical Warfare Agent Simulants. , 2009, , .		1
95	A H&inf>2</inf> microsensor based on nanocolumnar tungsten oxide grown by template-assisted anodization. , 2009, , .		3
96	COMSOL Simulation of acetone ions in Planar Ion Mobility Spectrometer. , 2009, , .		1
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	Performance optimization of a passive silicon-based micro-direct methanol fuel cell. Sensors and Actuators B: Chemical, 2008, 132, 540-544.	4.0	35
99	Sub-ppm gas sensor detection via spiral 1/4-preconcentrator. Sensors and Actuators B: Chemical, 2008, 132, 149-154.	4.0	49
100	Influence of the internal gas flow distribution on the efficiency of a 1/4-preconcentrator. Sensors and Actuators B: Chemical, 2008, 135, 52-56.	4.0	7
101	A compact optical multichannel system for ethylene monitoring. Microsystem Technologies, 2008, 14, 637-644.	1.2	19
102	Micro-machined WO ₃ -based sensors selective to oxidizing gases. Sensors and Actuators B: Chemical, 2008, 132, 209-215.	4.0	77
103	Towards a monolithic micro direct methanol fuel cell. , 2008, , .		0
104	A high sensitivity silicon microcantilever based mass sensor. , 2008, , .		6
105	Preconcentrator-based sensor 1/4-system for low-level benzene detection. Proceedings of SPIE, 2008, , .	0.8	0
106	Dimension-Scaling of Microcantilevers Resonators. , 2007, , .		1
107	A Silicon-Based Direct Methanol Micro Fuel Cell. , 2007, , .		0
108	Spiral 1/4-preconcentrator for gas sensor detection in the ppb range. Proceedings of IEEE Sensors, 2007, , .	1.0	0

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109	Silicon μ-preconcentrator for improved gas detection. , 2007, , .		0
110	Development and Optimization of Pre-Concentrator for Enhanced Benzene Detection. , 2007, , .		0
111	Residual Stress Measurement on a MEMS Structure With High-Spatial Resolution. Journal of Microelectromechanical Systems, 2007, 16, 365-372.	1.7	56
112	FIB-based technique for stress characterization on thin films for reliability purposes. Microelectronic Engineering, 2007, 84, 1783-1787.	1.1	37
113	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
114	Ozone monitoring by micro-machined sensors with WO ₃ sensing films. Sensors and Actuators B: Chemical, 2007, 126, 573-578.	4.0	53
115	Improvement of the gas sensor response via silicon $\hat{1}/4$ -preconcentrator. Sensors and Actuators B: Chemical, 2007, 127, 288-294.	4.0	23
116	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
117	Membrane-suspended microgrid as a gas preconcentrator for chromatographic applications. Sensors and Actuators A: Physical, 2007, 135, 192-196.	2.0	29
118	Non-selective NDIR array for gas detection. Sensors and Actuators B: Chemical, 2007, 127, 69-73.	4.0	67
119	FEM Simulation and Characterization of Microcantilevers Resonators. , 2006, , .		0
120	Measurement of residual stress by slot milling with focused ion-beam equipment. Journal of Micromechanics and Microengineering, 2006, 16, 254-259.	1.5	76
121	Measurement of residual stresses in micromachined structures in a microregion. Applied Physics Letters, 2006, 88, 071910.	1.5	41
122	Mechanical characterization of thermal flow sensors membranes. Sensors and Actuators A: Physical, 2006, 125, 260-266.	2.0	10
123	Sensitivity and selectivity improvement of rf sputtered WO ₃ microhotplate gas sensors. Sensors and Actuators B: Chemical, 2006, 113, 241-248.	4.0	101
124	Micromachined twin gas sensor for CO and O ₂ quantification based on catalytically modified nano-SnO ₂ . Sensors and Actuators B: Chemical, 2006, 114, 881-892.	4.0	124
125	On the effects of the materials and the noble metal additives to NO ₂ detection. Sensors and Actuators B: Chemical, 2006, 118, 311-317.	4.0	30
126	On-line monitoring of CO ₂ quality using doped WO ₃ thin film sensors. Thin Solid Films, 2006, 500, 302-308.	0.8	41

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127	High-temperature low-power performing micromachined suspended micro-hotplate for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 826-835.	4.0	81
128	Exploration of the metrological performance of a gas detector based on an array of unspecific infrared filters. <i>Sensors and Actuators B: Chemical</i> , 2006, 116, 183-191.	4.0	18
129	Optimization of SAW sensors with a structure ZnO/SiO ₂ /Si to detect volatile organic compounds. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 356-361.	4.0	35
130	Digital image correlation of nanoscale deformation fields for local stress measurement in thin films. <i>Nanotechnology</i> , 2006, 17, 5264-5270.	1.3	57
131	<title>3D deformation analysis of flow and gas sensors membranes for reliability assessment</title> . , 2005, , .		1
132	Microsystems for the agrofood field. <i>Journal of Physics: Conference Series</i> , 2005, 10, 267-272.	0.3	2
133	Mirror electrostatic actuation of a medium-infrared tuneable Fabry-Perot interferometer based on a surface micromachining process. <i>Sensors and Actuators A: Physical</i> , 2005, 123-124, 584-589.	2.0	10
134	Multisensor chip for gas concentration monitoring in a flowing gas mixture. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 688-694.	4.0	8
135	Optimised temperature modulation of metal oxide micro-hotplate gas sensors through multilevel pseudo random sequences. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 271-280.	4.0	34
136	Towards a micro-system for monitoring ethylene in warehouses. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 63-70.	4.0	59
137	Characterization of thermal conductivity in thin film multilayered membranes. <i>Thin Solid Films</i> , 2005, 484, 328-333.	0.8	13
138	Optimized temperature modulation of micro-hotplate gas sensors through pseudorandom binary sequences. <i>IEEE Sensors Journal</i> , 2005, 5, 1369-1378.	2.4	38
139	Nanoparticle metal-oxide films for micro-hotplate-based gas sensor systems. <i>IEEE Sensors Journal</i> , 2005, 5, 798-809.	2.4	20
140	Structural studies of zinc oxide films grown by RF magnetron sputtering. <i>Synthetic Metals</i> , 2005, 148, 37-41.	2.1	21
141	Feasibility of a flip-chip approach to integrate an IR filter and an IR detector in a future gas detection cell. <i>Microsystem Technologies</i> , 2004, 10, 382-386.	1.2	13
142	Detection of SO ₂ and H ₂ S in CO ₂ stream by means of WO ₃ -based micro-hotplate sensors. <i>Sensors and Actuators B: Chemical</i> , 2004, 102, 219-225.	4.0	64
143	Thermal AFM: a thermopile case study. <i>Ultramicroscopy</i> , 2004, 101, 153-159.	0.8	3
144	Detection of volatile organic compounds using surface acoustic wave sensors with different polymer coatings. <i>Thin Solid Films</i> , 2004, 467, 234-238.	0.8	51

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145	A surface micromachining process for the development of a medium-infrared tuneable Fabry-Perot interferometer. <i>Sensors and Actuators A: Physical</i> , 2004, 113, 39-47.	2.0	22
146	AFM thermal imaging as an optimization tool for a bulk micromachined thermopile. <i>Sensors and Actuators A: Physical</i> , 2004, 115, 440-446.	2.0	14
147	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> , 2004, 103, 23-30.	4.0	24
148	Fine-tuning of the resonant frequency using a hybrid coupler and fixed components in SAW oscillators for gas detection. <i>Sensors and Actuators B: Chemical</i> , 2004, 103, 139-144.	4.0	15
149	A glass/silicon technology for low-power robust gas sensors. <i>IEEE Sensors Journal</i> , 2004, 4, 195-206.	2.4	3
150	Multi-range silicon micromachined flow sensor. <i>Sensors and Actuators A: Physical</i> , 2004, 110, 282-288.	2.0	112
151	Screen-printed nanoparticle tin oxide films for high-yield sensor microsystems. <i>Sensors and Actuators B: Chemical</i> , 2003, 96, 94-104.	4.0	44
152	Semiconductor gas sensor compatibility with CMOS technologies. , 2003, , .		1
153	Thermal and mechanical analysis of micromachined gas sensors. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 548-556.	1.5	111
154	Assessment of the final metrological characteristics of a MOEMS-based NDIR spectrometer through system modeling and data processing. <i>IEEE Sensors Journal</i> , 2003, 3, 587-594.	2.4	18
155	High temperature degradation of Pt/Ti electrodes in micro-hotplate gas sensors. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, S119-S124.	1.5	35
156	Compatibility of gas and flow sensor technology fabrication. , 2003, , .		0
157	<title>Low-cost thermal flow sensor for home-appliances applications</title>. , 2002, , .		3
158	Thermo-mechanical analysis of micro-drop coated gas sensors. <i>Sensors and Actuators A: Physical</i> , 2002, 97-98, 379-385.	2.0	34
159	Pulverisation method for active layer coating on microsystems. <i>Sensors and Actuators B: Chemical</i> , 2002, 84, 78-82.	4.0	17
160	Manufacturing and packaging of sensors for their integration in a vertical MCM microsystem for biomedical applications. <i>Journal of Microelectromechanical Systems</i> , 2001, 10, 569-579.	1.7	5
161	<title>Thermal-induced stress in dielectric membranes suitable for micromechanized gas sensors</title>. , 2001, 4408, 81.		1
162	A novel methodology for the manufacturability of robust CMOS semiconductor gas sensor arrays. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 395-400.	4.0	27

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163	Results on the reliability of silicon micromachined structures for semiconductor gas sensors. Sensors and Actuators B: Chemical, 2001, 77, 409-415.	4.0	29
164	<title>Low-power micromachined structures for gas sensors with improved robustness</title>. , 2000, , .		1
165	Structural and dimensional control in micromachined integrated solid state gas sensors. Sensors and Actuators B: Chemical, 2000, 69, 314-319.	4.0	34
166	Detection of gases with arrays of micromachined tin oxide gas sensors. Sensors and Actuators B: Chemical, 2000, 65, 244-246.	4.0	40
167	Detection of low NO ₂ concentrations with low power micromachined tin oxide gas sensors. Sensors and Actuators B: Chemical, 1999, 58, 325-329.	4.0	50
168	Thermal and mechanical aspects for designing micromachined low-power gas sensors. Journal of Micromechanics and Microengineering, 1997, 7, 247-249.	1.5	48
169	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
170	Multilayer ISFET membranes for microsystems applications. Sensors and Actuators B: Chemical, 1996, 35, 136-140.	4.0	28
171	Electrical characterization of the aging of sealing materials for ISFET chemical sensors. Sensors and Actuators B: Chemical, 1995, 24, 206-210.	4.0	12
172	On-line determination of the degradation of ISFET chemical sensors. Sensors and Actuators B: Chemical, 1993, 15, 218-222.	4.0	7
173	MLS based temperature modulation of micro-hotplates. , 0, , .		1
174	Thermal and mechanical simulation of bulk resonators. , 0, , .		3
175	Optimized multi-frequency temperature modulation of micro-hotplate gas sensors. , 0, , .		2
176	Optical simulation of a MOEMS based tuneable Fabry-Perot interferometer. , 0, , .		1
177	Micro-cantilevers for gas sensing. , 0, , .		3
178	FEM simulations to estimate the polymer thickness deposited over mechanical resonators. , 0, , .		0
179	Characterization and optimization of ZnO films for SAW devices. , 0, , .		0
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