Carles Cane

List of Publications by Year
in descending order

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202	4,662	76294	138417
papers	citations	40 h-index	58 g-index

202	202	202	4329
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrogen Dioxide Selective Sensor for Humid Environments Based on Octahedral Indium Oxide. Frontiers in Sensors, 2021, 2, .	1.7	2
2	ZnO Nanorods and Their Modification with Au Nanoparticles for UV-light Activated Gas Sensing. , 2021, , .		0
3	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
4	Monitoring perishable food. , 2020, , 289-314.		2
5	Micro light plates for low-power photoactivated (gas) sensors. Applied Physics Letters, 2019, 114, .	1.5	42
6	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
7	Electron beam lithography for contacting single nanowires on non-flat suspended substrates. Sensors and Actuators B: Chemical, 2019, 286, 616-623.	4.0	7
8	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
9	Gas Microsensors Based on Cerium Oxide Modified Tungsten Oxide Nanowires. , 2018, , .		2
10	Localized and In-Situ Integration of Different Nanowire Materials for Electronic Nose Applications. Proceedings (mdpi), 2018, 2, 957.	0.2	1
11	Cerium Oxide-Tungsten Oxide Core-Shell Nanowire-Based Microsensors Sensitive to Acetone. Biosensors, 2018, 8, 116.	2.3	14
12	Different Nanowire Materials Localized Growth and In-Situ Integration for Electronic Nose Applications. , 2018, , .		0
13	VOC-sensitive structures with nanoscale heterojunctions based on WO3-x nanoneedles and Fe2O3 nanoparticles. Monatshefte FÃ¼r Chemie, 2017, 148, 1921-1927.	0.9	0
14	Aerosol-assisted Chemical Vapor Deposition of Metal Oxide Structures: Zinc Oxide Rods. Journal of Visualized Experiments, 2017, , .	0.2	7
15	Gas sensors based on individual indium oxide nanowire. Sensors and Actuators B: Chemical, 2017, 238, 447-454.	4.0	44
16	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
17	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
18	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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19	Ferric Oxide Nanoparticle-functionalized Tungsten Oxide Nanoneedles and their Gas Sensing Properties. Procedia Engineering, 2015, 120, 443-446.	1.2	2
20	Nosocomial Neonatal Listeria monocytogenes Transmission by Stethoscope. Pediatric Infectious Disease Journal, 2015, 34, 1042-1043.	1.1	7
21	Flexible gas sensing devices with directly grown tungsten oxide nanoneedles via AACVD. , 2015, , .		0
22	Gas Nanosensors Based on Individual Indium Oxide Nanostructures. Procedia Engineering, 2015, 120, 795-798.	1.2	6
23	Locally Grown SnO 2 NWs as Low Power Ammonia Sensor. Procedia Engineering, 2015, 120, 215-219.	1.2	4
24	Low-cost Fabrication of Zero-power Metal Oxide Nanowire Gas Sensors: Trends and Challenges. Procedia Engineering, 2015, 120, 488-491.	1.2	2
25	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
26	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
27	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
28	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
29	Liquid characterization by means of Love-wave device combined with microfluidic platform. , 2015, , .		0
30	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
31	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
32	Love-Wave Sensors Combined with Microfluidics for Fast Detection of Biological Warfare Agents. Sensors, 2014, 14, 12658-12669.	2.1	25
33	New approach for batch microfabrication of silicon-based micro fuel cells. Microsystem Technologies, 2014, 20, 341-348.	1.2	15
34	Microsensors based on Ptâ€“nanoparticle functionalised tungsten oxide nanoneedles for monitoring hydrogen sulfide. RSC Advances, 2014, 4, 1489-1495.	1.7	30
35	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
36	Microfabrication of flexible gas sensing devices based on nanostructured semiconducting metal oxides. Sensors and Actuators A: Physical, 2014, 219, 88-93.	2.0	16

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37	Sensors and Micro and Nano Technologies for the Food Sector. , 2013, , .		0
38	Microfluidics applied to Love-wave devices to detect biological warfare agents in dynamic mode. , 2013, , .		0
39	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
40	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
41	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
42	UV damage endonuclease employs a novel dual-dinucleotide flipping mechanism to recognize different DNA lesions. Nucleic Acids Research, 2013, 41, 1363-1371.	6.5	23
43	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
44	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
45	Localized growth and in situ integration of nanowires for device applications. Chemical Communications, 2012, 48, 4734.	2.2	32
46	Contact end resistance test structure applied for nanocontact measurements. Microelectronic Engineering, 2012, 99, 18-22.	1.1	0
47	Finite-element analysis of a miniaturized ion mobility spectrometer for security applications. Sensors and Actuators B: Chemical, 2012, 170, 13-20.	4.0	14
48	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
49	A MEMS-based thermal infrared emitter for an integrated NDIR spectrometer. Microsystem Technologies, 2012, 18, 1147-1154.	1.2	8
50	Long-term variability and environmental preferences of calycophoran siphonophores in the Bay of Villefranche (north-western Mediterranean). Progress in Oceanography, 2012, 97-100, 152-163.	1.5	24
51	Modelling a P-FAIMS with multiphysics FEM. Journal of Mathematical Chemistry, 2012, 50, 359-373.	0.7	3
52	Discrimination and classification of chemical warfare agent simulants using a Love-wave sensor array. Procedia Engineering, 2011, 25, 23-26.	1.2	2
53	Methods and Techniques for the Fabrication of Gas Sensing Devices from Nanowires. Procedia Engineering, 2011, 25, 1409-1412.	1.2	0
54	Array of Love-wave sensors based on quartz/Novolac to detect CWA simulants. Talanta, 2011, 85, 1442-1447.	2.9	24

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55	Planar Thermoelectric Microgenerators Based on Silicon Nanowires. Journal of Electronic Materials, 2011, 40, 851-855.	1.0	24
56	Chemical warfare agents simulants detection with an optimized SAW sensor array. Sensors and Actuators B: Chemical, 2011, 154, 199-205.	4.0	78
57	Single-walled carbon nanotube microsensors for nerve agent simulant detection. Sensors and Actuators B: Chemical, 2011, 157, 253-259.	4.0	27
58	A MEMS-based thermal infrared emitter for an integrated NDIR spectrometer. , 2011, , .		0
59	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
60	Electrical characterization of thermomechanically stable YSZ membranes for micro solid oxide fuel cells applications. Solid State Ionics, 2010, 181, 322-331.	1.3	61
61	Modeling vapor detection in a micro ion mobility spectrometer for security applications. Procedia Engineering, 2010, 5, 1236-1239.	1.2	2
62	Towards a compact SU-8 micro-direct methanol fuel cell. Journal of Power Sources, 2010, 195, 8110-8115.	4.0	37
63	Gas sensors based on multiwall carbon nanotubes decorated with tin oxide nanoclusters. Sensors and Actuators B: Chemical, 2010, 145, 411-416.	4.0	81
64	Fabrication of WO3 nanodot-based microsensors highly sensitive to hydrogen. Sensors and Actuators B: Chemical, 2010, 149, 352-361.	4.0	71
65	Fabrication and characterization of yttria-stabilized zirconia membranes for micro solid oxide fuel cells. , 2009, , .		2
66	Hybrid polymer electrolyte membrane for silicon-based micro fuel cells integration. Journal of Micromechanics and Microengineering, 2009, 19, 065006.	1.5	10
67	YSZ Free-standing Membranes for Silicon-based Micro SOFCs. ECS Transactions, 2009, 25, 931-938.	0.3	1
68	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
69	Micro-machined WO3-based sensors with improved characteristics. Sensors and Actuators B: Chemical, 2009, 140, 356-362.	4.0	19
70	Sensitivity improvement of a microcantilever based mass sensor. Microelectronic Engineering, 2009, 86, 1187-1189.	1.1	40
71	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
72	Optimized design of a SAW sensor array for chemical warfare agents simulants detection. Procedia Chemistry, 2009, 1, 232-235.	0.7	5

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73	Monolithic micro fuel cells as integrated power sources in MEMS. , 2009, , .		4
74	Saw Sensor Array for Chemical Warfare Agent Simulants. , 2009, , .		1
75	COMSOL Simulation of acetone ions in Planar Ion Mobility Spectrometer. , 2009, , .		1
76	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
77	Performance optimization of a passive silicon-based micro-direct methanol fuel cell. Sensors and Actuators B: Chemical, 2008, 132, 540-544.	4.0	35
78	Sub-ppm gas sensor detection via spiral Î¼-preconcentrator. Sensors and Actuators B: Chemical, 2008, 132, 149-154.	4.0	49
79	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
80	Fabrication and characterization of a passive silicon-based direct methanol fuel cell. Microsystem Technologies, 2008, 14, 535-541.	1.2	41
81	A compact optical multichannel system for ethylene monitoring. Microsystem Technologies, 2008, 14, 637-644.	1.2	19
82	Micro-machined WO3-based sensors selective to oxidizing gases. Sensors and Actuators B: Chemical, 2008, 132, 209-215.	4.0	77
83	A high sensitivity silicon microcantilever based mass sensor. , 2008, , .		6
84	Application of Micro and Nanotechnologies to Food Safety and Quality Monitoring. Measurement and Control, 2007, 40, 116-119.	0.9	6
85	Performance and Design Issues of a Silicon Microfabricated Fuel Cell. , 2007, , .		1
86	Fabrication and characterization of a passive silicon-based direct methanol fuel cell. , 2007, , .		0
87	Micro and nanotechnologies for the development of an integrated chromatographic system. , 2007, , .		2
88	Dimension-Scaling of Microcantilevers Resonators. , 2007, , .		1
89	A Silicon-Based Direct Methanol Micro Fuel Cell. , 2007, , .		0
90	Spiral μ-preconcentrator for gas sensor detection in the ppb range. Proceedings of IEEE Sensors, 2007, , .	1.0	0

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91	Silicon μ-preconcentrator for improved gas detection. , 2007, , .		0
92	Development and Optimization of Pre-Concentrator for Enhanced Benzene Detection. , 2007, , .		0
93	Residual Stress Measurement on a MEMS Structure With High-Spatial Resolution. Journal of Microelectromechanical Systems, 2007, 16, 365-372.	1.7	56
94	FIB-based technique for stress characterization on thin films for reliability purposes. Microelectronic Engineering, 2007, 84, 1783-1787.	1.1	37
95	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
96	Ozone monitoring by micro-machined sensors with WO3 sensing films. Sensors and Actuators B: Chemical, 2007, 126, 573-578.	4.0	53
97	Improvement of the gas sensor response via silicon Î¼-preconcentrator. Sensors and Actuators B: Chemical, 2007, 127, 288-294.	4.0	23
98	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
99	Membrane-suspended microgrid as a gas preconcentrator for chromatographic applications. Sensors and Actuators A: Physical, 2007, 135, 192-196.	2.0	29
100	Non-selective NDIR array for gas detection. Sensors and Actuators B: Chemical, 2007, 127, 69-73.	4.0	67
101	FEM Simulation and Characterization of Microcantilevers Resonators. , 2006, , .		0
102	Measurement of residual stress by slot milling with focused ion-beam equipment. Journal of Micromechanics and Microengineering, 2006, 16, 254-259.	1.5	76
103	Measurement of residual stresses in micromachined structures in a microregion. Applied Physics Letters, 2006, 88, 071910.	1.5	41
104	Influence of the doping material on the benzene detection. , 2006, , .		1
105	Mechanical characterization of thermal flow sensors membranes. Sensors and Actuators A: Physical, 2006, 125, 260-266.	2.0	10
106	Sensitivity and selectivity improvement of rf sputtered WO3 microhotplate gas sensors. Sensors and Actuators B: Chemical, 2006, 113, 241-248.	4.0	101
107	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
108	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

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109	On-line monitoring of CO2 quality using doped WO3 thin film sensors. Thin Solid Films, 2006, 500, 302-308.	0.8	41
110	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
111	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
112	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
113	Digital image correlation of nanoscale deformation fields for local stress measurement in thin films. Nanotechnology, 2006, 17, 5264-5270.	1.3	57
114	Towards a Microtechnology based 4-channel infrared detector unit for a miniaturised NDIR system. , 2006, , .		0
115	<title>3D deformation analysis of flow and gas sensors membranes for reliability assessment</title>. , 2005, , .		1
116	Microsystems for the agrofood field. Journal of Physics: Conference Series, 2005, 10, 267-272.	0.3	2
117	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
118	Multisensor chip for gas concentration monitoring in a flowing gas mixture. Sensors and Actuators B: Chemical, 2005, 107, 688-694.	4.0	8
119	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
120	Towards a micro-system for monitoring ethylene in warehouses. Sensors and Actuators B: Chemical, 2005, 111-112, 63-70.	4.0	59
121	Characterization of thermal conductivity in thin film multilayered membranes. Thin Solid Films, 2005, 484, 328-333.	0.8	13
122	<title>A highly sensitive IR-optical sensor for ethylene-monitoring</title>. , 2005, 5836, 452.		9
123	Blood flow in the common carotid artery in term and preterm infants: reproducibility and relation to cardiac output. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2005, 91, F31-F35.	1.4	25
124	Optimized temperature modulation of micro-hotplate gas sensors through pseudorandom binary sequences. IEEE Sensors Journal, 2005, 5, 1369-1378.	2.4	38
125	Nanoparticle metal-oxide films for micro-hotplate-based gas sensor systems. IEEE Sensors Journal, 2005, 5, 798-809.	2.4	20
126	A Reusable Smart Interface for Gas Sensor Resistance Measurement. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 1173-1178.	2.4	27

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127	A Monolithic Interface Circuit for Gas Sensor Arrays: Control and Measurement. Analog Integrated Circuits and Signal Processing, 2004, 40, 175-184.	0.9	18
128	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
129	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
130	Thermal AFM: a thermopile case study. Ultramicroscopy, 2004, 101, 153-159.	0.8	3
131	Detection of volatile organic compounds using surface acoustic wave sensors with different polymer coatings. Thin Solid Films, 2004, 467, 234-238.	0.8	51
132	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
133	AFM thermal imaging as an optimization tool for a bulk micromachined thermopile. Sensors and Actuators A: Physical, 2004, 115, 440-446.	2.0	14
134	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
135	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
136	A glass/silicon technology for low-power robust gas sensors. IEEE Sensors Journal, 2004, 4, 195-206.	2.4	3
137	Multi-range silicon micromachined flow sensor. Sensors and Actuators A: Physical, 2004, 110, 282-288.	2.0	112
138	Definition of high aspect ratio glass columns. Sensors and Actuators A: Physical, 2003, 105, 305-310.	2.0	23
139	A novel single chip thin film metal oxide array. Sensors and Actuators B: Chemical, 2003, 93, 350-355.	4.0	119
140	Screen-printed nanoparticle tin oxide films for high-yield sensor microsystems. Sensors and Actuators B: Chemical, 2003, 96, 94-104.	4.0	44
141	Semiconductor gas sensor compatibility with CMOS technologies. , 2003, , .		1
142	Thermal and mechanical analysis of micromachined gas sensors. Journal of Micromechanics and Microengineering, 2003, 13, 548-556.	1.5	111
143	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
144	High temperature degradation of Pt/Ti electrodes in micro-hotplate gas sensors. Journal of Micromechanics and Microengineering, 2003, 13, S119-S124.	1.5	35

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145	Compatibility of gas and flow sensor technology fabrication. , 2003, , .		0
146	<title>Low-cost thermal flow sensor for home-appliances applications</title>. , 2002, , .		3
147	Thermo-mechanical analysis of micro-drop coated gas sensors. Sensors and Actuators A: Physical, 2002, 97-98, 379-385.	2.0	34
148	Pulverisation method for active layer coating on microsystems. Sensors and Actuators B: Chemical, 2002, 84, 78-82.	4.0	17
149	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
150	<title>Thermal-induced stress in dielectric membranes suitable for micromechanized gas sensors</title>. , 2001, 4408, 81.		1
151	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
152	Results on the reliability of silicon micromachined structures for semiconductor gas sensors. Sensors and Actuators B: Chemical, 2001, 77, 409-415.	4.0	29
153	<title>Low-power micromachined structures for gas sensors with improved robustness</title>. , 2000, , .		1
154	Twin-mass accelerometer optimization to reduce the package stresses. Sensors and Actuators A: Physical, 2000, 80, 199-207.	2.0	22
155	The use of ferrofluids in micromechanics. Sensors and Actuators A: Physical, 2000, 84, 176-180.	2.0	62
156	Structural and dimensional control in micromachined integrated solid state gas sensors. Sensors and Actuators B: Chemical, 2000, 69, 314-319.	4.0	34
157	Detection of gases with arrays of micromachined tin oxide gas sensors. Sensors and Actuators B: Chemical, 2000, 65, 244-246.	4.0	40
158	Improvement of the quality factor of RF integrated inductors by layout optimization. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 76-83.	2.9	216
159	Bias correction of an ocean-atmosphere coupled model. Geophysical Research Letters, 2000, 27, 2585-2588.	1.5	64
160	CMOS integrated pressure sensor optimization using electrical network simulator-FEM tool coupling. Journal of Micromechanics and Microengineering, 1999, 9, 109-112.	1.5	3
161	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
162	<title>Doping and structural properties for the phosphorous-doped polysilicon layers used for micromechanical applications</title>. , 1999, , .		0

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163	Magnetic-field sensor based on a thin-film SOI transistor. Sensors and Actuators A: Physical, 1998, 67, 96-101.	2.0	9
164	Improvement of pressure-sensor performance and process robustness through reinforcement of the membrane edges. Sensors and Actuators A: Physical, 1998, 67, 138-141.	2.0	5
165	Study of integrated RF passive components performed using CMOS and Si micromachining technologies. Journal of Micromechanics and Microengineering, 1997, 7, 162-164.	1.5	23
166	Thermal and mechanical aspects for designing micromachined low-power gas sensors. Journal of Micromechanics and Microengineering, 1997, 7, 247-249.	1.5	48
167	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
168	Microtechnologies for PH ISFET chemical sensors. Microelectronics Journal, 1997, 28, 389-405.	1.1	66
169	Multilayer ISFET membranes for microsystems applications. Sensors and Actuators B: Chemical, 1996, 35, 136-140.	4.0	28
170	Nanomodification of silicon (100) surface with scanning tunnelling microscopy using polysilicon on silicon structure. Materials Science and Technology, 1995, 11, 85-89.	0.8	2
171	Application of nickel electroless plating to the fabrication of low-cost backside contact ISFETs. Sensors and Actuators B: Chemical, 1995, 27, 336-340.	4.0	14
172	A technology for the monolithic fabrication of a pressure sensor and related circuitry. Sensors and Actuators A: Physical, 1995, 46, 133-136.	2.0	9
173	Electrical characterization of the aging of sealing materials for ISFET chemical sensors. Sensors and Actuators B: Chemical, 1995, 24, 206-210.	4.0	12
174	Extraction of contact resistivity on Kelvin L-resistor structures. IEEE Transactions on Electron Devices, 1994, 41, 1073-1074.	1.6	3
175	On-line determination of the degradation of ISFET chemical sensors. Sensors and Actuators B: Chemical, 1993, 15, 218-222.	4.0	7
176	Accurate extraction of contact resistivity on Kelvin D-resistor structures using universal curves from simulation. IEEE Transactions on Electron Devices, 1993, 40, 944-950.	1.6	12
177	Influence of the degradation on the surface states and electrical characteristics of EOS structures. Surface Science, 1991, 251-252, 364-368.	0.8	11
178	Latch-up characterization using novel test structures and instruments. IEEE Transactions on Semiconductor Manufacturing, 1991, 4, 199-205.	1.4	2
179	Modelization and fabrication of ISFET based sensors. Microelectronic Engineering, 1991, 15, 423-426.	1.1	3
180	Intracellular stability of the gene encoding influenza virus haemagglutinin. Virology, 1990, 175, 385-390.	1.1	10

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181	A new test structure to characterize the latchup effect. , 1990, , .		4
182	Positive photoresist stripping by plasma barrel. Vacuum, 1989, 39, 757-759.	1.6	1
183	Intracellular stability of the interfering activity of a defective interfering influenza virus in the absence of virus multiplication. Virology, 1987, 159, 259-264.	1.1	31
184	Measurement of lateral diffusion on technologies with polysilicon doping source with misalignment correction. , 0, , .		1
185	Improvement of the triangular MOS transistor for misalignment measurement. , 0, , .		4
186	An easy technique for determining diffusion and generation-recombination components of the current of pn junctions for better modelling. , 0, , .		1
187	A moveable shielding box adaptable to commercial automatic wafer probers. , 0, , .		0
188	Improvement of the quality factor of RF integrated inductors by layout optimization. , 0, , .		21
189	Characterisation of surface micromachined beams with floating gate transistor. , 0, , .		0
190	Evaluation of sensitive materials for integrated thermal flow sensors. , 0, , .		2
191	A CMOS monolithically integrated gas sensor array with electronics for temperature control and signal interfacing. , 0, , .		9
192	Integrated micromachined gas multisensor for domestic boilers. , 0, , .		0
193	MLS based temperature modulation of micro-hotplates. , 0, , .		1
194	A mixed-mode interface circuit for gas sensor control and measure. , 0, , .		0
195	Feasibility of a flip chip approach to integrate an IR filter and an IR detector in a future gas detection cell. , 0, , .		0
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