Julian W Gardner

List of Publications by Year
in descending order

342 papers	9,567 citations	34105 52 h-index	49909 87 g-index
415 all docs	415 docs citations	415 times ranked	6622 citing authors

#	Article	IF	Citations
1	Thermally Modulated CMOS-Compatible Particle Sensor for Air Quality Monitoring. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	3
2	Estimation of missing air pollutant data using a spatiotemporal convolutional autoencoder. Neural Computing and Applications, 2022, 34, 16129-16154.	5.6	8
3	Classification of Urine Odour Using Machine Learning Methods. , 2022, , .		1
4	Optimising Deep Learning at the Edge for Accurate Hourly Air Quality Prediction. Sensors, 2021, 21, 1064.	3.8	26
5	CMOS Compatible Aluminium Nitride Solidly Mounted Resonator with an Integrated Microheater for Temperature Modulation. , 2021, , .		2
6	AlN FBAR Particle Sensor With a Thermophoretic Sampling Mechanism. IEEE Sensors Journal, 2021, 21, 19427-19435.	4.7	5
7	A highly stable, nanotube-enhanced, CMOS-MEMS thermal emitter for mid-IR gas sensing. Scientific Reports, 2021, 11, 22915.	3.3	11
8	CMOS-based resistive and FET devices for smart gas sensors. , 2020, , 125-141.		0
9	Characterisation of Zinc Oxide Thin-Film Solidly Mounted Resonators for Particle Sensing in Air. , 2020, , .		3
10	Smart City Battery Operated IoT Based Indoor Air Quality Monitoring System. , 2020, , .		31
11	Solidly Mounted Resonator (SMR) Sensors for Biomedical Applications. Proceedings (mdpi), 2020, 56, .	0.2	1
12	Classification of Urine Odour Using Artificial Neural Networks. ECS Meeting Abstracts, 2020, MA2020-01, 1849-1849.	0.0	0
13	GaN-on-Si Calorimetric Thermal Conductivity Gas Sensor. ECS Meeting Abstracts, 2020, MA2020-01, 2261-2261.	0.0	1
14	Air Pollution Monitoring Using Near Room Temperature Resistive Gas Sensors: A Review. IEEE Transactions on Electron Devices, 2019, 66, 3254-3264.	3.0	70
15	A Solidly Mounted Resonator With CMOS-Fabricated Acoustic Mirror For Low-Cost Air Quality Monitoring. , 2019, , .		1
16	Identification of Urine Odour Using CMOS-Based Metal Oxide Resistive Gas Sensors. , 2019, , .		2
17	Real-Time Thermal Modulation of High Bandwidth MOX Gas Sensors for Mobile Robot Applications. Sensors, 2019, 19, 1180.	3.8	15
18	Thermal Conductivity Sensor with Isolating Membrane Holes. , 2019, , .		3

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19	GaN-on-Si Thermoresistive Flow Sensor with Gold Hot-wire. , 2019, , .		1
20	FireNose on Mobile Robot in Harsh Environments. IEEE Sensors Journal, 2019, 19, 12418-12431.	4.7	20
21	MEMS Thermal Flow Sensorsâ€" An Accuracy Investigation. IEEE Sensors Journal, 2019, 19, 2991-2998.	4.7	22
22	Investigation of the response of high-bandwidth MOX sensors to gas plumes for application on a mobile robot in hazardous environments. Sensors and Actuators B: Chemical, 2019, 279, 351-360.	7.8	20
23	H_2S Sensing in Dry and Humid H_2 Environment With p-Type CuO Thick-Film Gas Sensors. IEEE Sensors Journal, 2018, 18, 3502-3508.	4.7	15
24	Thermal Modulation of a High-Bandwidth Gas Sensor Array in Real-Time for Application on a Mobile Robot. Proceedings (mdpi), 2018, 2, .	0.2	1
25	Plasmonic enhanced CMOS non-dispersive infrared gas sensor for acetone and ammonia detection. , 2018, , .		10
26	A film bulk acoustic resonator oscillator based humidity sensor with graphene oxide as the sensitive layer. Journal of Micromechanics and Microengineering, 2017, 27, 055017.	2.6	42
27	Identification of H2S Impurity in Hydrogen Using Temperature Modulated Metal Oxide Resistive Sensors with a Novel Signal Processing Technique. , 2017, 1, 1-4.		11
28	Towards point of care human energy expenditure measurement on a hand-held breath analyser. , 2017, , .		2
29	Ultrasensitive WO 3 gas sensors for NO 2 detection in air and low oxygen environment. Sensors and Actuators B: Chemical, 2017, 239, 1051-1059.	7.8	165
30	Mobile robot multi-sensor unit for unsupervised gas discrimination in uncontrolled environments. , 2017, , .		14
31	Prediction of impurities in hydrogen fuel supplies using a thermally-modulated CMOS gas sensor: Experiments and modelling. , 2017, , .		1
32	High Bandwidth Sensor Module for Mobile Robot Applications-Wind Tunnel Characterization. Proceedings (mdpi), 2017, 1, .	0.2	0
33	Ratiometric Decoding of Pheromones for a Biomimetic Infochemical Communication System. Sensors, 2017, 17, 2489.	3.8	7
34	Electronic Noses for Well-Being: Breath Analysis and Energy Expenditure. Sensors, 2016, 16, 947.	3.8	24
35	A low-cost acoustic microsensor based system in package for air quality monitoring. , 2016, , .		5
36	Multi-sensor module for a mobile robot operating in harsh environments. , 2016, , .		12

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37	High frequency surface acoustic wave resonator-based sensor for particulate matter detection. Sensors and Actuators A: Physical, 2016, 244, 138-145.	4.1	35
38	CMOS-compatible SOI micro-hotplate-based oxygen sensor. , 2016, , .		3
39	Temperature-modulated graphene oxide resistive humidity sensor for indoor air quality monitoring. Nanoscale, 2016, 8, 4565-4572.	5.6	69
40	Particle Sensor Using Solidly Mounted Resonators. IEEE Sensors Journal, 2016, 16, 2282-2289.	4.7	23
41	Design and modelling of solidly mounted resonators for low-cost particle sensing. Measurement Science and Technology, 2016, 27, 025101.	2.6	18
42	Mask-less deposition of Au–SnO_2 nanocomposites on CMOS MEMS platform for ethanol detection. Nanotechnology, 2016, 27, 125502.	2.6	49
43	CMOS integration of inkjet-printed graphene for humidity sensing. Scientific Reports, 2015, 5, 17374.	3.3	124
44	Dip pen nanolithography-deposited zinc oxide nanorods on a CMOS MEMS platform for ethanol sensing. RSC Advances, 2015, 5, 47609-47616.	3.6	48
45	Biosynthetic infochemical communication. Bioinspiration and Biomimetics, 2015, 10, 043001.	2.9	8
46	Enhanced spectroscopic gas sensors using *in-situ* grown carbon nanotubes. Applied Physics Letters, 2015, 106, .	3.3	26
47	Surface acoustic wave electronic tongue for robust analysis of sensory components. Sensors and Actuators B: Chemical, 2015, 207, 1147-1153.	7.8	24
48	Graphene-coated Rayleigh SAW Resonators for NO2 Detection. Procedia Engineering, 2014, 87, 999-1002.	1.2	23
49	Finite element modelling of particle sensors based on Solidly Mounted Resonators. , 2014, , .		3
50	A CMOS-MEMS Thermopile with an Integrated Temperature Sensing Diode for Mid-IR Thermometry. Procedia Engineering, 2014, 87, 1127-1130.	1.2	16
51	Rapid processing of chemosensor transients in a neuromorphic implementation of the insect macroglomerular complex. Flavour, 2014, 3, .	2.3	1
52	Ambient Temperature Carbon Nanotube Ammonia Sensor on CMOS Platform. Procedia Engineering, 2014, 87, 224-227.	1.2	8
53	SOI CMOS MEMS Infra-red Thermal Source with Carbon Nanotubes Coating. Procedia Engineering, 2014, 87, 839-842.	1.2	4
54	Design and Modelling of a Portable Breath Analyser for Metabolic Rate Measurement. Procedia Engineering, 2014, 87, 668-671.	1.2	8

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55	Design and Implementation of a Modular Biomimetic Infochemical Communication System. International Journal of Circuit Theory and Applications, 2013, 41, 653-667.	2.0	9
56	SOI CMOS integrated zinc oxide nanowire for toluene detection. , 2013, , .		3
57	Precision transducer for Fluorescence-Based Immunoassays. , 2013, , .		0
58	In-Situ grown carbon nanotubes for enhanced CO<inf>2</inf> detection in non-dispersive-infra-red system. , 2013, , .		3
59	Dual high-frequency Surface Acoustic Wave Resonator for ultrafine particle sensing. , 2013, , .		6
60	Graphene SOI CMOS sensors for detection of PPB levels of NO<inf>2</inf> in air. , 2013, , .		1
61	Rapid processing of chemosensor transients in a neuromorphic implementation of the insect macroglomerular complex. Frontiers in Neuroscience, 2013, 7, 119.	2.8	12
62	SOI sensing technologies for harsh environment. , 2012, , .		8
63	Guest Editorial - Special issue on machine olfaction. IEEE Sensors Journal, 2012, 12, 3105-3107.	4.7	4
64	Surface acoustic wave based analytical system for the detection of liquid detergents. Sensors and Actuators B: Chemical, 2012, 171-172, 469-477.	7.8	16
65	Mimicking the biological olfactory system: a Portable electronic Mucosa. IET Nanobiotechnology, 2012, 6, 45.	3.8	14
66	1/f noise and its unusual high-frequency deactivation at high biasing currents in carbon black polymers with residual $1/f^{\hat{\imath}^3}$ ($\hat{\imath}^3$=2.2) noise and a preliminary estimation of the average trap energy. Sensors and Actuators B: Chemical, 2012, 174, 577-585.	7.8	8
67	A novel biomimetic infochemical communication technology: From insects to robots. , 2012, , .		6
68	Ratiometric info-chemical communication system based on polymer-coated surface acoustic wave microsensors. Sensors and Actuators B: Chemical, 2012, 173, 547-554.	7.8	7
69	Classification of Field Asymmetric Ion Mobility Spectrometry Data for Detection of Bowel Bacteria. , 2012, , .		0
70	ASIC for hybrid biosynthetic infochemical chemoreceiver. , 2011, , .		1
71	Detergents sensing system based on SH-SAW devices. Procedia Engineering, 2011, 25, 1125-1128.	1.2	6
72	High Temperature Robust SOI Ethanol Sensor. Procedia Engineering, 2011, 25, 1317-1320.	1.2	1

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73	Zinc Oxide Nanowire Based Hydrogen Sensor On SOI CMOS Platform. Procedia Engineering, 2011, 25, 1473-1476.	1.2	9
74	Detection of ligand-elicited cellular responses using Surface Acoustic Wave biosensors. Procedia Computer Science, 2011, 7, 346-347.	2.0	1
75	Challenges of Biomimetic Infochemical Communication. Procedia Computer Science, 2011, 7, 106-109.	2.0	5
76	Combined electronic nose and tongue for a flavour sensing system. Sensors and Actuators B: Chemical, 2011, 156, 832-839.	7.8	69
77	Volatile-based ratiometric infochemical communication system using polymer-coated piezoelectric sensor arrays. , 2011, , .		2
78	Cell-based surface acoustic wave resonant microsensor for biomolecular agent detection. , 2011, , .		11
79	A High Temperature SOI CMOS NO[sub 2] Sensor. , 2011, , .		2
80	Ratiometric Chemical Blend Processing with a Neuromorphic Model of the Insect Macroglomerular Complex. AIP Conference Proceedings, 2011, , .	0.4	6
81	Towards an Analogue Neuromorphic VLSI Instrument for the Sensing of Complex Odours. , 2011, , .		0
82	Detection And Identification Of Inflammatory Bowel Disease Electronic Nose. , 2011, , .		0
83	Novel Convolution-based Signal Processing Technique for an Artificial Olfactory Mucosa. , 2011, , .		0
84	A duo-type smart gas sensor ASIC chip for use with resistive nanomaterials. Procedia Engineering, 2010, 5, 176-179.	1.2	1
85	ZnO nanowires grown on SOI CMOS substrate for ethanol sensing. Sensors and Actuators B: Chemical, 2010, 146, 559-565.	7.8	101
86	CMOS Interfacing for Integrated Gas Sensors: A Review. IEEE Sensors Journal, 2010, 10, 1833-1848.	4.7	175
87	Post-CMOS wafer level growth of carbon nanotubes for low-cost microsensorsâ€"a proof of concept. Nanotechnology, 2010, 21, 485301.	2.6	27
88	Identification of Different Vapors Using a Single Temperature Modulated Polymer Sensor With a Novel Signal Processing Technique. IEEE Sensors Journal, 2009, 9, 314-328.	4.7	17
89	Novel dual transient temperature modulation technique for multi-vapour detection. , 2009, , .		0
90	Novel Convolution-Based Signal Processing Techniques for an Artificial Olfactory Mucosa. IEEE Sensors Journal, 2009, 9, 929-935.	4.7	16

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91	SOI CMOS Platform for Gas Sensing Applications. ECS Transactions, 2009, 22, 281-292.	0.5	0
92	Applying Convolution-Based Processing Methods To A Dual-Channel, Large Array Artificial Olfactory Mucosa. , 2009, , .		4
93	Nanotubes and Nanorods on CMOS Substrates for Gas Sensing. , 2009, , .		3
94	Carbon Nanomaterial Polymer Composite ChemFET and Chemoresistors For Vapour Sensing. , 2009, , .		2
95	CMOS Alcohol Sensor Employing ZnO Nanowire Sensing Films. , 2009, , .		4
96	An electronic nose employing dual-channel odour separation columns with large chemosensor arrays for advanced odour discrimination. Sensors and Actuators B: Chemical, 2009, 141, 134-140.	7.8	40
97	Identification and quantification of different vapours using a single polymer chemoresistor and the novel dual transient temperature modulation technique. Sensors and Actuators B: Chemical, 2009, 141, 370-380.	7.8	13
98	Towards a biosynthetic infochemical communication system. Procedia Chemistry, 2009, 1, 305-308.	0.7	64
99	Portable e-Mucosa System: Mimicking the biological olfactory. Procedia Chemistry, 2009, 1, 991-994.	0.7	21
100	Nanowire hydrogen gas sensor employing CMOS micro-hotplate. , 2009, , .		4
101	Biomimetic insect infochemical communication system. , 2009, , .		14
102	Improved Odour Detection through Imposed Biomimetic Temporal Dynamics. Studies in Computational Intelligence, 2009, , 75-91.	0.9	1
103	Neural network based electronic nose for classification of tea aroma. Sensing and Instrumentation for Food Quality and Safety, 2008, 2, 7-14.	1.5	43
104	SOI diode temperature sensor operated at ultra high temperatures - a critical analysis. , 2008, , .		13
105	CMOS temperature sensors - concepts, state-of-the-art and prospects. , 2008, , .		23
106	Tungsten-Based SOI Microhotplates for Smart Gas Sensors. Journal of Microelectromechanical Systems, 2008, 17, 1408-1417.	2.5	130
107	CMOS micro-hotplate array design for nanomaterial-based gas sensors. , 2008, , .		1
108	Spatio-temporal information in an artificial olfactory mucosa. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 1057-1077.	2.1	8

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109	Multi-field simulations and characterization of CMOS-MEMS high-temperature smart gas sensors based on SOI technology. Journal of Micromechanics and Microengineering, 2008, 18, 075010.	2.6	16
110	Identification of taste solutions and their binary mixtures using SH-SAW resonator-based taste sensor. , 2008, , .		0
111	SOI CMOS-Based Smart Gas Sensor System for Ubiquitous Sensor Networks. ETRI Journal, 2008, 30, 516-525.	2.0	22
112	Novelconvolution Based Signal Processing Techniques for a Simplified Artificial Olfactory Mucosa. , 2007, , .		2
113	Identification of vapours using a single carbon black/polymer composite sensor and a novel temperature modulation technique. , 2007, , .		2
114	Enhanced Discrimination of Complex Odours Based upon Spatio-Temporalsignals from a Micro-Mucosa. , 2007, , .		1
115	Novel gas chromatographic microsystem with very large sensor arrays for advanced odour discrimination. , 2007, , .		1
116	Towards a truly biomimetic olfactory microsystem: an artificial olfactory mucosa. IET Nanobiotechnology, 2007, 1, 15.	3.8	24
117	Displays, Sensors, and MEMS - Chemical and Biological Sensors, and Microsystems. , 2007, , .		0
118	Analog VLSI Circuit Implementation of an Adaptive Neuromorphic Olfaction Chip. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 60-73.	0.1	122
119	Three technologies for a smart miniaturized gas-sensor: SOI CMOS, micromachining, and CNTs - challenges and performance. , 2007, , .		12
120	Novel phenomena-based dynamic model of carbon black/composite vapour sensors. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 551-568.	2.1	2
121	Towards an artificial olfactory mucosa for improved odour classification. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 1713-1728.	2.1	19
122	Novel design and characterisation of SOI CMOS micro-hotplates for high temperature gas sensors. Sensors and Actuators B: Chemical, 2007, 127, 260-266.	7.8	88
123	Finite Element Simulation of a Biomimetic Olfactory Microsystem for Spatio-temporal Signal Generation. Communications in Computer and Information Science, 2007, , 216-226.	0.5	1
124	High Temperature SQI CMOS Tungsten Micro-Heaters. , 2006, , .		12
125	SQI-CMOS based single crystal silicon micro-heaters for gas sensors. , 2006, , .		7
126	Towards a truly biomimetic olfactory microsystem: an artificial olfactory mucosa. , 2006, , 105.		1

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127	Taste sensors utilizing high-frequency SH-SAW devices. Sensors and Actuators B: Chemical, 2006, 118, 349-355.	7.8	34
128	Velocity-optimized diffusion for ultra-fast polymer-based resistive gas sensors. IET Science, Measurement and Technology, 2006, 153, 94-100.	0.7	10
129	Identification of soft drinks using MEMS-IDT microsensors. , 2005, , .		3
130	Applications: Sections 7.5-7.13. , 2005, , 343-473.		0
131	Evaluation Circuits. , 2005, , 237-267.		0
132	Applications: Sections 7.1-7.4. , 2005, , 269-342.		1
133	Applications: Sections 7.14-7.20. , 2005, , 474-544.		0
134	Automotive Sensor Market. , 2005, , 5-19.		0
135	Measurement Principles: Basic Considerations about Sensing. , 2005, , 21-37.		1
136	Design Methodology. , 2005, , 39-72.		0
137	Enhancing electronic nose performance by sensor selection using a new integer-based genetic algorithm approach. Sensors and Actuators B: Chemical, 2005, 106, 114-121.	7.8	96
138	Data reduction in headspace analysis of blood and urine samples for robust bacterial identification. Computer Methods and Programs in Biomedicine, 2005, 79, 259-271.	4.7	15
139	Identification of bacterial pathogens using quadrupole mass spectrometer data and radial basis function neural networks. IET Science, Measurement and Technology, 2005, 152, 97-102.	0.7	6
140	Identification of Staphylococcus aureus infections in hospital environment: electronic nose based approach. Sensors and Actuators B: Chemical, 2005, 109, 355-362.	7.8	79
141	Appliances and Sensors. , 2005, , 19-80.		0
142	Sensor Related Topics. , 2005, , 117-210.		0
143	Market Data. , 2005, , 9-18.		0
144	Sensorics for Detergency. , 2005, , 81-115.		0

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145	Appendix: Examples of Commercial Sensors for Household Appliances. , 2005, , 241-278.		0
146	The Increasing Importance of Sensors in Household Appliances. , 2005, , 1-8.		2
147	Influencing Factors - Today and Tomorrow. , 2005, , 211-239.		1
148	Investigations on an electronic tongue with polymer microfluidic cell for liquid sensing and identification. Smart Materials and Structures, 2005, 14, 1010-1016.	3.5	22
149	Design and simulation of resistive SOI CMOS micro-heaters for high temperature gas sensors. Journal of Physics: Conference Series, 2005, 15, 27-32.	0.4	17
150	Classification of Ear, Nose, and Throat Bacteria Using a Neural-Network-Based Electronic Nose. MRS Bulletin, 2004, 29, 709-713.	3.5	12
151	Conductive polymer gate FET devices for vapour sensing. IET Circuits, Devices and Systems, 2004, 151, 326.	0.6	11
152	A multi-electrode probe for parallel imaging in scanning electrochemical microscopy. Electrochemistry Communications, 2004, 6, 91-97.	4.7	49
153	Miniature taste sensing system based on dual SH-SAW sensor device: an electronic tongue. Sensors and Actuators B: Chemical, 2004, 103, 233-239.	7.8	75
154	Development of Smart Tongue Devices for Measurement of Liquid Properties. IEEE Sensors Journal, 2004, 4, 543-550.	4.7	26
155	Clinical evaluation of the electronic nose in the diagnosis of ear, nose and throat infection: a preliminary study. Journal of Laryngology and Otology, 2004, 118, 706-9.	0.8	50
156	Smart ASIC chip for vapor detection based upon carbon black/polymer composite nanomaterials. , 2004, 5389, 344.		2
157	Ultrafast chemical-sensing microsystem employing resistive nanomaterials. , 2004, , .		0
158	Review of Conventional Electronic Noses and Their Possible Application to the Detection of Explosives. , 2004, , 1-28.		3
159	Identification of CO and NO2 using a thermally resistive microsensor and support vector machine. IET Science, Measurement and Technology, 2003, 150, 11.	0.7	18
160	Parametric model of a polymeric chemoresistor for use in smart sensor design and simulation. Microelectronics Journal, 2003, 34, 865-875.	2.0	14
161	Electronic nose based tea quality standardization. Neural Networks, 2003, 16, 847-853.	5.9	113
162	A preliminary study of conducting polymers as microvalve seals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 355, 62-67.	5.6	9

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163	Design and simulation of a smart ratiometric ASIC chip for VOC monitoring. Sensors and Actuators B: Chemical, 2003, 95, 232-243.	7.8	18
164	Design and optimisation of a high-temperature silicon micro-hotplate for nanoporous palladium pellistors. Microelectronics Journal, 2003, 34, 115-126.	2.0	84
165	Tea quality prediction using a tin oxide-based electronic nose: an artificial intelligence approach. Sensors and Actuators B: Chemical, 2003, 94, 228-237.	7.8	175
166	Response model for thermally modulated tin oxide-based microhotplate gas sensors. Sensors and Actuators B: Chemical, 2003, 95, 203-211.	7.8	48
167	Non-destructive egg freshness determination: an electronic nose based approach. Measurement Science and Technology, 2003, 14, 190-198.	2.6	84
168	Design of a microfluidic cell using microstereolithography for electronic tongue applications. , 2003, , .		2
169	System identification of electronic nose data from cyanobacteria experiments. IEEE Sensors Journal, 2002, 2, 218-229.	4.7	19
170	Bacteria classification using Cyranose 320 electronic nose. BioMedical Engineering OnLine, 2002, 1, 4.	2.7	127
171	Classification of bacteria responsible for ENT and eye infections using the Cyranose system. IEEE Sensors Journal, 2002, 2, 247-253.	4.7	44
172	Conducting polymer films by UV-photo processing. Sensors and Actuators A: Physical, 2002, 99, 74-77.	4.1	28
173	Micro-gas-sensor with conducting polymers. Sensors and Actuators B: Chemical, 2002, 84, 66-71.	7.8	66
174	Wavelet transform and fuzzy ARTMAP-based pattern recognition for fast gas identification using a micro-hotplate gas sensor. Sensors and Actuators B: Chemical, 2002, 83, 238-244.	7.8	75
175	Gas sensing through thick film technology. Sensors and Actuators B: Chemical, 2002, 84, 72-77.	7.8	72
176	<title>Design and coupled-effect simulations of CMOS micro gas sensors built on SOI thin membranes</title>. , 2001, , .		1
177	Electronic nose simulation tool centred on PSpice. Sensors and Actuators B: Chemical, 2001, 76, 419-429.	7.8	12
178	A polymer gate FET sensor array for detecting organic vapours. Sensors and Actuators B: Chemical, 2001, 77, 155-162.	7.8	103
179	Design and simulations of SOI CMOS micro-hotplate gas sensors. Sensors and Actuators B: Chemical, 2001, 78, 180-190.	7.8	105
180	Silicon Planar Microcalorimeter Employing Nanostructured Films. , 2001, , 820-823.		4

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181	Wavelet Transform and Fuzzy ARTMAP Based Pattern Recognition for Fast Gas Identification Using a Micro-Hotplate Gas Sensor. , 2001, , 1644-1647.		2
182	SOI-based Micro-hotplate Microcalorimeter Gas Sensor With Integrated BiCMOS Transducer. , 2001, , 1660-1663.		2
183	An electronic nose system for monitoring the quality of potable water. Sensors and Actuators B: Chemical, 2000, 69, 336-341.	7.8	84
184	An electronic nose system to diagnose illness. Sensors and Actuators B: Chemical, 2000, 70, 19-24.	7.8	198
185	GasFETs incorporating conducting polymers as gate materials. Sensors and Actuators B: Chemical, 2000, 65, 253-256.	7.8	39
186	<title>Smart tongue and nose</title>. , 1999, , .		3
187	<title>Conducting polymer FET devices for vapor sensing</title>. , 1999, 3673, 296.		3
188	Non-destructive banana ripeness determination using a neural network-based electronic nose. Measurement Science and Technology, 1999, 10, 538-548.	2.6	136
189	Neural network based electronic nose for apple ripeness determination. Electronics Letters, 1999, 35, 821.	1.0	50
190	Effect of micro-electrode geometry on response of thin-film poly(pyrrole) and poly(aniline) chemoresistive sensors. Sensors and Actuators B: Chemical, 1999, 57, 17-27.	7.8	25
191	Polymeric resistive bridge gas sensor array driven by a standard cell CMOS current drive chip. Sensors and Actuators B: Chemical, 1999, 58, 518-525.	7.8	22
192	Fuzzy ARTMAP based electronic nose data analysis. Sensors and Actuators B: Chemical, 1999, 61, 183-190.	7.8	94
193	SPICE model for resistive gas and odour sensors. IET Circuits, Devices and Systems, 1999, 146, 101.	0.6	11
194	Prediction of health of dairy cattle from breath samples using neural network with parametric model of dynamic response of array of semiconducting gas sensors. IET Science, Measurement and Technology, 1999, 146, 102.	0.7	23
195	<title>Numerical simulation of a new generation of high-temperature micropower gas and odor sensors based on SOI technology</title>. , 1999, , .		3
196	Response of a poly(pyrrole) resistive micro-bridge to ethanol vapour. Sensors and Actuators B: Chemical, 1998, 48, 289-295.	7.8	26
197	Surface characterisation of electro-active thin polymeric film bearings. International Journal of Machine Tools and Manufacture, 1998, 38, 669-675.	13.4	17
198	Strategies for Mimicking Olfaction: The Next Generation of Electronic Noses?. Sensors Update, 1998, 3, 61-130.	0.5	7

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199	Measurements of tribological properties of poly(pyrrole) thin film bearings. Tribology International, 1998, 31, 313-323.	5.9	9
200	The prediction of bacteria type and culture growth phase by an electronic nose with a multi-layer perceptron network. Measurement Science and Technology, 1998, 9, 120-127.	2.6	174
201	Rapid static headspace sampler for automated odour analysis. Transactions of the Institute of Measurement and Control, 1998, 20, 67-73.	1.7	2
202	Classifier Systems Based on Possibility Distributions: A Comparative Study. , 1998, , 539-542.		2
203	Olfactory Feature Maps from an Electronic Nose. Measurement and Control, 1997, 30, 262-268.	1.8	7
204	Integrated Sensor Arrays for the Dynamic Measurement of Food Flavour Release. Measurement and Control, 1997, 30, 273-279.	1.8	6
205	Thermal modelling and characterisation of micropower chemoresistive silicon sensors. Sensors and Actuators B: Chemical, 1997, 45, 19-26.	7.8	100
206	High-precision intelligent interface for a hybrid electronic nose. Sensors and Actuators A: Physical, 1997, 62, 724-728.	4.1	26
207	Gas identification by modulating temperatures of SnO2-based thick film sensors. Sensors and Actuators B: Chemical, 1997, 43, 45-51.	7.8	298
208	Preliminary Investigation of Breath Sampling as a Monitor of Health in Dairy Cattle. Biosystems Engineering, 1997, 67, 267-275.	0.4	46
209	Diffusion and binding of molecules to sites within homogeneous thin films. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1996, 354, 35-57.	3.4	32
210	A laterally driven micromachined resonant pressure sensor. Sensors and Actuators A: Physical, 1996, 52, 86-91.	4.1	54
211	Performance definition and standardization of electronic noses. Sensors and Actuators B: Chemical, 1996, 33, 60-67.	7.8	69
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