Eugenio Martinelli

List of Publications by Year
in descending order

235 papers	6,054 citations	71102 41 h-index	88630 70 g-index
241 all docs	241 docs citations	241 times ranked	6195 citing authors

#	Article	IF	Citations
1	Electro-Optical Classification of Pollen Grains via Microfluidics and Machine Learning. IEEE Transactions on Biomedical Engineering, 2022, 69, 921-931.	4.2	18
2	A Lab-on-a-Chip Based Automatic Platform for Continuous Nitrites Sensing in Aquaculture. Sensors, 2022, 22, 444.	3.8	6
3	Low power memristive gas sensor architectures with improved sensing accuracy. Journal of Computational Electronics, 2022, 21, 1005-1016.	2.5	1
4	Machine learning phenomics (MLP) combining deep learning with time-lapse-microscopy for monitoring colorectal adenocarcinoma cells gene expression and drug-response. Scientific Reports, 2022, 12, .	3.3	10
5	Exploiting spectral information in Opto-Electronic Tweezers for cell classification and drug response evaluation. Sensors and Actuators B: Chemical, 2022, 368, 132200.	7.8	8
6	Multi-scale generative adversarial network for improved evaluation of cellâ€“cell interactions observed in organ-on-chip experiments. Neural Computing and Applications, 2021, 33, 3671-3689.	5.6	13
7	Light-Activated Porphyrinoid-Capped Nanoparticles for Gas Sensing. ACS Applied Nano Materials, 2021, 4, 414-424.	5.0	19
8	Metrological Characterization of a Pain Detection System Based on Transfer Entropy of Facial Landmarks. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	5
9	Rapid Manufacturing of Multilayered Microfluidic Devices for Organ on a Chip Applications. Sensors, 2021, 21, 1382.	3.8	22
10	Oncoimmunology Meets Organs-on-Chip. Frontiers in Molecular Biosciences, 2021, 8, 627454.	3.5	21
11	Apoptosis mapping in space and time of 3D tumor ecosystems reveals transmissibility of cytotoxic cancer death. PLoS Computational Biology, 2021, 17, e1008870.	3.2	12
12	Optimizing MOX sensor array performances with a reconfigurable self-adaptive temperature modulation interface. Sensors and Actuators B: Chemical, 2021, 333, 129509.	7.8	19
13	The spectral treasure house of miniaturized instruments for food safety, quality and authenticity applications: A perspective. Trends in Food Science and Technology, 2021, 110, 841-848.	15.1	14
14	A novel multi-frequency trans-endothelial electrical resistance (MTEER) sensor array to monitor blood-brain barrier integrity. Sensors and Actuators B: Chemical, 2021, 334, 129599.	7.8	16
15	Early Prediction of Breast Cancer Recurrence for Patients Treated with Neoadjuvant Chemotherapy: A Transfer Learning Approach on DCE-MRIs. Cancers, 2021, 13, 2298.	3.7	29
16	Deep-MEG: spatiotemporal CNN features and multiband ensemble classification for predicting the early signs of Alzheimerâ€™s disease with magnetoencephalography. Neural Computing and Applications, 2021, 33, 14651-14667.	5.6	10
17	NeuriTES. Monitoring neurite changes through transfer entropy and semantic segmentation in bright-field time-lapse microscopy. Patterns, 2021, 2, 100261.	5.9	6
18	A Memristive Architecture for Process Variation Aware Gas Sensing and Logic Operations. , 2021, , .		0

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19	Combining microfluidics with machine learning algorithms for RBC classification in rare hereditary hemolytic anemia. Scientific Reports, 2021, 11, 13553.	3.3	33
20	Early prediction of neoadjuvant chemotherapy response by exploiting a transfer learning approach on breast DCE-MRIs. Scientific Reports, 2021, 11, 14123.	3.3	34
21	Recursive Deep Prior Video: A super resolution algorithm for time-lapse microscopy of organ-on-chip experiments. Medical Image Analysis, 2021, 72, 102124.	11.6	17
22	Optimization of gas sensors measurements by dynamic headspace analysis supported by simultaneous direct injection mass spectrometry. Sensors and Actuators B: Chemical, 2021, 347, 130580.	7.8	2
23	Reliability Assessment of Memristor based Gas Sensor Array. , 2021, , .		0
24	Compared EC-AFM Analysis of Laser-Induced Graphene and Graphite Electrodes in Sulfuric Acid Electrolyte. Molecules, 2021, 26, 7333.	3.8	0
25	High-throughput analysis of cell-cell crosstalk in ad hoc designed microfluidic chips for oncoimmunology applications. Methods in Enzymology, 2020, 632, 479-502.	1.0	7
26	Optical detection of aflatoxins B in grained almonds using fluorescence spectroscopy and machine learning algorithms. Food Control, 2020, 112, 107073.	5.5	29
27	Editorial: Tumor Systems Biology: How to Therapeutically Redirect Dysregulated Homeostasis in Tumor Systems (i.e., Anakoinosis). Frontiers in Oncology, 2020, 10, 1675.	2.8	0
28	Deciphering Cancer Cell Behavior From Motility and Shape Features: Peer Prediction and Dynamic Selection to Support Cancer Diagnosis and Therapy. Frontiers in Oncology, 2020, 10, 580698.	2.8	9
29	A Personalized Assessment Platform for Non-invasive Monitoring of Pain. , 2020, , .		2
30	Yield Estimation of a Memristive Sensor Array. , 2020, , .		1
31	A microfluidic device for shape measurement in red blood cells (RBCs). , 2020, , .		2
32	Accelerating the experimental responses on cell behaviors: a long-term prediction of cell trajectories using Social Generative Adversarial Network. Scientific Reports, 2020, 10, 15635.	3.3	8
33	Discovering the hidden messages within cell trajectories using a deep learning approach for in vitro evaluation of cancer drug treatments. Scientific Reports, 2020, 10, 7653.	3.3	34
34	Machine Learning (ML) based-method applied in recurrent pregnancy loss (RPL) patients diagnostic work-up: a potential innovation in common clinical practice. Scientific Reports, 2020, 10, 7970.	3.3	16
35	Polylactic is a Sustainable, Low Absorption, Low Autofluorescence Alternative to Other Plastics for Microfluidic and Organ-on-Chip Applications. Analytical Chemistry, 2020, 92, 6693-6701.	6.5	50
36	A Camera Sensors-Based System to Study Drug Effects on In Vitro Motility: The Case of PC-3 Prostate Cancer Cells. Sensors, 2020, 20, 1531.	3.8	5

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37	Sensing with Memristive Complementary Resistive Switch: Modelling and Simulations. , 2020, , .		1
38	Calibration of Vision-Based Measurement of Pain Intensity With Multiple Expert Observers. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2442-2450.	4.7	13
39	Layered Double Hydroxides: A Toolbox for Chemistry and Biology. Crystals, 2019, 9, 361.	2.2	61
40	Self-Repairing classification algorithms for chemical sensor array. Sensors and Actuators B: Chemical, 2019, 297, 126721.	7.8	15
41	Online Feature Selection for Robust Classification of the Microbiological Quality of Traditional Vanilla Cream by Means of Multispectral Imaging. Sensors, 2019, 19, 4071.	3.8	8
42	Targeting LOX-1 Inhibits Colorectal Cancer Metastasis in an Animal Model. Frontiers in Oncology, 2019, 9, 927.	2.8	27
43	The Missing Applications Found: Robust Design Techniques and Novel Uses of Memristors. , 2019, , .		7
44	Willingness towards cognitive engagement: a preliminary study based on a behavioural entropy approach. Experimental Brain Research, 2019, 237, 995-1007.	1.5	1
45	A cross-cutting approach for tracking architectural distortion locii on digital breast tomosynthesis slices. Biomedical Signal Processing and Control, 2019, 50, 92-102.	5.7	8
46	The Influence of Uncertainty Contributions on Deep Learning Architectures in Vision-Based Evaluation Systems. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2425-2432.	4.7	8
47	The influence of spatial and temporal resolutions on the analysis of cell-cell interaction: a systematic study for time-lapse microscopy applications. Scientific Reports, 2019, 9, 6789.	3.3	25
48	From Petri Dishes to Organ on Chip Platform: The Increasing Importance of Machine Learning and Image Analysis. Frontiers in Pharmacology, 2019, 10, 100.	3.5	26
49	Learning Cancer-Related Drug Efficacy Exploiting Consensus in Coordinated Motility Within Cell Clusters. IEEE Transactions on Biomedical Engineering, 2019, 66, 2882-2888.	4.2	21
50	Fault Modeling and Simulation of Memristor based Gas Sensors. , 2019, , .		5
51	Efficient sensing approaches for high-density memristor sensor array. Journal of Computational Electronics, 2018, 17, 1285-1296.	2.5	22
52	Unsupervised On-Line Selection of Training Features for a robust classification with drifting and faulty gas sensors. Sensors and Actuators B: Chemical, 2018, 258, 1242-1251.	7.8	20
53	Complementary Resistive Switch Sensing. , 2018, , .		3
54	Dissecting Effects of Anti-cancer Drugs and Cancer-Associated Fibroblasts by On-Chip Reconstitution of Immunocompetent Tumor Microenvironments. Cell Reports, 2018, 25, 3884-3893.e3.	6.4	118

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55	A Multi-label Architecture for Vision-based Measurement of Intervals of Pain. , 2018, , .		3
56	A Deep Learning Strategy for Vision-Based Evaluation on the Effect of Nanoparticles Exposure. , 2018, , .		4
57	An emotional modulation model as signature for the identification of children developmental disorders. Scientific Reports, 2018, 8, 14487.	3.3	9
58	A closed-form solution to the graph total variation problem for continuous emotion profiling in noisy environment. Speech Communication, 2018, 104, 66-72.	2.8	4
59	Chemically mediated species recognition in two sympatric Grayling butterflies: Hipparchia fagi and Hipparchia hermione (Lepidoptera: Nymphalidae, Satyrinae). PLoS ONE, 2018, 13, e0199997.	2.5	11
60	Volatile compounds emission from teratogenic human pluripotent stem cells observed during their differentiation in vivo. Scientific Reports, 2018, 8, 11056.	3.3	10
61	Uncertainty Evaluation of a VBM System for AFM Study of Cell-Cerium Oxide Nanoparticles Interactions. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1564-1572.	4.7	8
62	Reduction of false-positives in a CAD scheme for automated detection of architectural distortion in digital mammography. , 2018, , .		2
63	Continuous Estimation of Emotions in Speech by Dynamic Cooperative Speaker Models. IEEE Transactions on Affective Computing, 2017, 8, 314-327.	8.3	36
64	Sensor array detection of malaria volatile signature in a murine model. Sensors and Actuators B: Chemical, 2017, 245, 341-351.	7.8	12
65	Cooperative strategy for a dynamic ensemble of classification models in clinical applications: the case of MRI vertebral compression fractures. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1971-1983.	2.8	8
66	3D Microfluidic model for evaluating immunotherapy efficacy by tracking dendritic cell behaviour toward tumor cells. Scientific Reports, 2017, 7, 1093.	3.3	130
67	Surface arrangement dependent selectivity of porphyrins gas sensors. Sensors and Actuators B: Chemical, 2017, 251, 524-532.	7.8	30
68	A preliminary analysis of volatile metabolites of human induced pluripotent stem cells along the in vitro differentiation. Scientific Reports, 2017, 7, 1621.	3.3	15
69	On the Role of PTB7â€Th:[70]PCBM Blend Concentration in orthoâ€Xylene on Polymer Solarâ€Cell Performance. Energy Technology, 2017, 5, 2168-2174.	3.8	10
70	Diagnosis of pulmonary tuberculosis and assessment of treatment response through analyses of volatile compound patterns in exhaled breath samples. Journal of Infection, 2017, 74, 367-376.	3.3	72
71	Organs on chip approach: a tool to evaluate cancer -immune cells interactions. Scientific Reports, 2017, 7, 12737.	3.3	69
72	Robust classification of biological samples in atomic force microscopy images via multiple filtering cooperation. Knowledge-Based Systems, 2017, 133, 221-233.	7.1	6

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73	Identification of stem cells differentiation steps. , 2017, , .		0
74	Mini-DIAL system measurements coupled with multivariate data analysis to identify TIC and TIM simulants: preliminary absorption database analysis.. Journal of Physics: Conference Series, 2017, 778, 012004.	0.4	2
75	Towards localization of malignant sites of asymmetry across bilateral mammograms. Computer Methods and Programs in Biomedicine, 2017, 140, 11-18.	4.7	12
76	AFM-based robust image analysis to contrast reversal effects in cell-cerium oxide nanoparticles interactions. , 2017, , .		3
77	Normalizing brain activity across individuals using functional reference mapping. Scientific Reports, 2017, 7, 17128.	3.3	2
78	Reliable gas sensing with memristive array. , 2017, , .		4
79	Porphyrins for olfaction mimic: The Rome Tor Vergata approach. Journal of Porphyrins and Phthalocyanines, 2017, 21, 769-781.	0.8	15
80	Conductive Photo-Activated Porphyrin-ZnO Nanostructured Gas Sensor Array. Sensors, 2017, 17, 747.	3.8	17
81	Optimizing an array of self adapted temperature modulated metal oxide sensors for biomedical application. , 2017, , .		1
82	An array of physical sensors and an adaptive regression strategy for emotion recognition in a noisy scenario. Sensors and Actuators A: Physical, 2017, 267, 48-59.	4.1	12
83	Identification of a Large Pool of Microorganisms with an Array of Porphyrin Based Gas Sensors. Sensors, 2016, 16, 466.	3.8	13
84	An Exploration of the Metal Dependent Selectivity of a Metalloporphyrins Coated Quartz Microbalances Array. Sensors, 2016, 16, 1640.	3.8	18
85	Strength Is in Numbers: Can Concordant Artificial Listeners Improve Prediction of Emotion from Speech?. PLoS ONE, 2016, 11, e0161752.	2.5	6
86	Identification of mammography anomalies for breast cancer detection by an ensemble of classification models based on artificial immune system. Knowledge-Based Systems, 2016, 101, 60-70.	7.1	32
87	Detection of diverse potential threats in water with an array of optical sensors. Sensors and Actuators B: Chemical, 2016, 236, 997-1004.	7.8	14
88	Electronic Nose and Exhaled Breath NMR-based Metabolomics Applications in Airways Disease. Current Topics in Medicinal Chemistry, 2016, 16, 1610-1630.	2.1	65
89	Investigation of VOCs associated with different characteristics of breast cancer cells. Scientific Reports, 2015, 5, 13246.	3.3	60
90	The lung cancer breath signature: a comparative analysis of exhaled breath and air sampled from inside the lungs. Scientific Reports, 2015, 5, 16491.	3.3	82

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91	Room Temperature CO Detection by Hybrid Porphyrin-ZnO Nanoparticles. Procedia Engineering, 2015, 120, 71-74.	1.2	9
92	Analysis of exhaled breath fingerprints and volatile organic compounds in COPD. COPD Research and Practice, 2015, 1, .	0.7	33
93	An On-line Reconfigurable Classification Algorithm Improves the Long-term Stability of Gas Sensor Arrays in Case of Faulty and Drifting Sensors. Procedia Engineering, 2015, 120, 249-252.	1.2	4
94	The gas sensing properties of one-pot prepared porphyrin-ZnO nanoparticles. , 2015, , .		1
95	Combining porphyrins and pH indicators for analyte detection. Analytical and Bioanalytical Chemistry, 2015, 407, 3975-3984.	3.7	16
96	Stable Odor Recognition by a neuro-adaptive Electronic Nose. Scientific Reports, 2015, 5, 10960.	3.3	14
97	Continuous Monitoring of Emotions by a Multimodal Cooperative Sensor System. Procedia Engineering, 2015, 120, 556-559.	1.2	5
98	Adaptive classification model based on artificial immune system for breast cancer detection. , 2015, , .		10
99	Analysis of exhaled air for a rapid, sensible and specific diagnosis of COPD. , 2015, , .		1
100	Understanding Odor Information Segregation in the Olfactory Bulb by Means of Mitral and Tufted Cells. PLoS ONE, 2014, 9, e109716.	2.5	17
101	An Investigation about the origin of the lung cancer signalling VOCs in breath. , 2014, , .		3
102	The Gas Sensing Properties of Porphyrins-coated Laterally Grown ZnO Nanorods. Procedia Engineering, 2014, 87, 1039-1042.	1.2	3
103	Solid-state gas sensors for breath analysis: A review. Analytica Chimica Acta, 2014, 824, 1-17.	5.4	307
104	Cooperative classifiers for reconfigurable sensor arrays. Sensors and Actuators B: Chemical, 2014, 199, 83-92.	7.8	37
105	The influence of film morphology and illumination conditions on the sensitivity of porphyrins-coated ZnO nanorods. Analytica Chimica Acta, 2014, 810, 86-93.	5.4	27
106	Speech emotion recognition using amplitude modulation parameters and a combined feature selection procedure. Knowledge-Based Systems, 2014, 63, 68-81.	7.1	66
107	Drift Correction in a Porphyrin-coated ZnO Nanorods Gas Sensor. Procedia Engineering, 2014, 87, 608-611.	1.2	3
108	Automatic Fault Identification and On-line Unsupervised Calibration of Replaced Sensors by Means of Cooperative Classifiers. Procedia Engineering, 2014, 87, 855-858.	1.2	2

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109	More than apples and oranges - Detecting cancer with a fruit fly's antenna. Scientific Reports, 2014, 4, 3576.	3.3	64
110	The light enhanced gas selectivity of one-pot grown porphyrins coated ZnO nanorods. Sensors and Actuators B: Chemical, 2013, 188, 475-481.	7.8	33
111	An adaptive classification model based on the Artificial Immune System for chemical sensor drift mitigation. Sensors and Actuators B: Chemical, 2013, 177, 1017-1026.	7.8	53
112	Supramolecular sensing mechanism of corrole thin films. Sensors and Actuators B: Chemical, 2013, 187, 72-77.	7.8	27
113	Sharing data processing among replicated optical sensor arrays. Sensors and Actuators B: Chemical, 2013, 179, 252-258.	7.8	6
114	Gold nanoparticles-peptide based gas sensor arrays for the detection of foodaromas. Biosensors and Bioelectronics, 2013, 42, 618-625.	10.1	52
115	An active temperature modulation of gas sensor based on a self-adaptive strategy. , 2013, , .		3
116	A Fully-Analog Lock-In Amplifier With Automatic Phase Alignment for Accurate Measurements of ppb Gas Concentrations. IEEE Sensors Journal, 2012, 12, 1377-1383.	4.7	49
117	Gas Sensitivity of the Surface Potential of Hybrid Porphyrin-ZnO Nanorods. Procedia Engineering, 2012, 47, 446-449.	1.2	2
118	1/f noise and its unusual high-frequency deactivation at high biasing currents in carbon black polymers with residual $1/f^{\beta}$ (β=2.2) noise and a preliminary estimation of the average trap energy. Sensors and Actuators B: Chemical, 2012, 174, 577-585.	7.8	8
119	An Olfactory Bulb Model Mitigates the Drift in Chemical Sensors. Procedia Engineering, 2012, 47, 1069-1072.	1.2	0
120	An Ensemble of Adaptive Classifiers for Improving Faulty and Drifting Sensor Performance. Procedia Engineering, 2012, 47, 1275-1278.	1.2	2
121	The influence of gas adsorption on photovoltage in porphyrin coated ZnO nanorods. Journal of Materials Chemistry, 2012, 22, 20032.	6.7	40
122	Gas-Sensitive Photoconductivity of Porphyrin-Functionalized ZnO Nanorods. Journal of Physical Chemistry C, 2012, 116, 9151-9157.	3.1	90
123	In situ detection of lung cancer volatile fingerprints using bronchoscopic air-sampling. Lung Cancer, 2012, 77, 46-50.	2.0	49
124	Indicators Blends Extend the Receptive Field of Colorimetric Chemical Sensors. Procedia Engineering, 2012, 47, 1189-1190.	1.2	1
125	Detection and identification of cancers by the electronic nose. Expert Opinion on Medical Diagnostics, 2012, 6, 175-185.	1.6	43
126	A Novel Approach for Prostate Cancer Diagnosis using a Gas Sensor Array. Procedia Engineering, 2012, 47, 1113-1116.	1.2	18

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127	Self-adapted temperature modulation in metal-oxide semiconductor gas sensors. Sensors and Actuators B: Chemical, 2012, 161, 534-541.	7.8	81
128	Data processing for image-based chemical sensors: unsupervised region of interest selection and background noise compensation. Analytical and Bioanalytical Chemistry, 2012, 402, 823-832.	3.7	5
129	An Analog Automatic Lock-In Amplifier for the Accurate Detection of Very Low Gas Concentrations. Lecture Notes in Electrical Engineering, 2012, , 285-291.	0.4	0
130	Facile sensors replacement in optical gas sensors array. Procedia Engineering, 2011, 25, 35-38.	1.2	2
131	Orthogonal Decomposition of Chemo-Sensory Signals: Discriminating Odorants in a Turbulent Ambient. Procedia Engineering, 2011, 25, 491-494.	1.2	0
132	Monocarboxy Tetraphenylporphyrin functionalized ZnO nanorods photoactivated gas sensor. Procedia Engineering, 2011, 25, 1333-1336.	1.2	3
133	Gas Sensitivity of Blends of Metalloporphyrins and Colorimetric Acid-Base Indicators. Procedia Engineering, 2011, 25, 1413-1416.	1.2	5
134	Site-Sensitive Gas Sensing and Analyte Discrimination in Langmuirâ˜Blodgett Porphyrin Films. Journal of Physical Chemistry C, 2011, 115, 8189-8194.	3.1	33
135	An Investigation on the Role of Spike Latency in an Artificial Olfactory System. Frontiers in Neuroengineering, 2011, 4, 16.	4.8	20
136	Orthogonal decomposition of chemo-sensory cues. Sensors and Actuators B: Chemical, 2011, 159, 126-134.	7.8	11
137	Monitoring of melanoma released volatile compounds by a gas sensors array: From in vitro to in vivo experiments. Sensors and Actuators B: Chemical, 2011, 154, 288-294.	7.8	20
138	Polymer matrices effects on the sensitivity and the selectivity of optical chemical sensors. Sensors and Actuators B: Chemical, 2011, 154, 220-225.	7.8	10
139	Short time gas delivery pattern improves long-term sensor reproducibility. Sensors and Actuators B: Chemical, 2011, 156, 753-759.	7.8	22
140	COPD Identification By The Analysis Of Breath With An Electronic Nose. , 2011, , .		1
141	Electronic Nose Characterization of the Quality Parameters of Freeze-Dried Bacteria. , 2011, , .		0
142	A Supervised Feature Extraction Method For GC-MS Data Based On PLS. Application To Olive Oil Adulteration Detection. , 2011, , .		0
143	Colors and Odors: Porphyrinoids Based Artificial Olfaction Systems. , 2011, , .		0
144	The Role of Spike Temporal Latencies in Artificial Olfaction. , 2011, , .		0

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145	Olive Oil Headspace Characterization by a Gas Sensor Array. , 2011, , .		0
146	Thermoelectric Properties of Carbon Nanotubes Layers. Lecture Notes in Electrical Engineering, 2011, , 73-79.	0.4	3
147	Metalloporphyrin-Modified Carbon Nanotube Layers for Gas Microsensors. Sensor Letters, 2011, 9, 913-919.	0.4	2
148	Differential Detection of Potentially Hazardous Fusarium Species in Wheat Grains by an Electronic Nose. PLoS ONE, 2011, 6, e21026.	2.5	51
149	Diagnostic Performance of an Electronic Nose, Fractional Exhaled Nitric Oxide, and Lung Function Testing in Asthma. Chest, 2010, 137, 790-796.	0.8	191
150	A sensor array and GC study about VOCs and cancer cells. Sensors and Actuators B: Chemical, 2010, 146, 483-488.	7.8	31
151	Self-adaptive thermal modulation of gas sensors. Procedia Engineering, 2010, 5, 156-159.	1.2	5
152	Analog automatic lock-in amplifier for very low gas concentration detection. Procedia Engineering, 2010, 5, 200-203.	1.2	10
153	COPD diagnosis by a gas sensor array. Procedia Engineering, 2010, 5, 484-487.	1.2	6
154	Low-voltage low-power integrated analog lock-in amplifier for gas sensor applications. Sensors and Actuators B: Chemical, 2010, 144, 400-406.	7.8	72
155	Artificial immune systems for Artificial Olfaction data analysis: Comparison between AIRS and ANN models. , 2010, , .		0
156	Testing olfactory models with an artificial experimental platform. , 2010, , .		1
157	An investigation on electronic nose diagnosis of lung cancer. Lung Cancer, 2010, 68, 170-176.	2.0	271
158	Interpretation of exhaled volatile organic compounds. , 2010, , 115-129.		19
159	Electronic Nose Applications in Medical Diagnose. , 2010, , 233-247.		0
160	Optimized Feature Extraction for Temperature-Modulated Gas Sensors. Journal of Sensors, 2009, 2009, 1-10.	1.1	22
161	Optical anisotropy readout in solid-state porphyrins for the detection of volatile compounds. Applied Physics Letters, 2009, 95, 091906.	3.3	13
162	A CMOS Integrable DDCCII-Based Readout System For Portable Potentiometric Sensors Array. , 2009, , .		1

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163	An Artificial Olfaction System Formed by a Massive Sensors Array Dispersed in a Diffusion Media and an Automatically Formed Glomeruli Layer. , 2009, , .		0
164	An Experimental Methodology For The Analysis Of The Headspace Of In-Vitro Culture Cells. , 2009, , .		1
165	Design Of A Sorbentâ•desorbent Unit For Sample Pre-treatment Optimized For QMB Gas Sensors. , 2009, , .		1
166	Bringing Chromatography Back To Colour. , 2009, , .		1
167	Porphyrin Electropolymers For Application In Hyphenated Chemical Sensors. , 2009, , .		0
168	An artificial olfaction system based on the optical imaging of a large array of chemical reporters. Sensors and Actuators B: Chemical, 2009, 142, 412-417.	7.8	13
169	A micromachined goldâ€“palladium Kelvin probe for hydrogen sensing. Sensors and Actuators B: Chemical, 2009, 142, 418-424.	7.8	4
170	Metalloporphyrins-functionalized carbon nanotube networked films for room-temperature VOCs sensing applications. Procedia Chemistry, 2009, 1, 975-978.	0.7	14
171	Optical Sensor Response Modulation Using Different Polymeric Matrices. Procedia Chemistry, 2009, 1, 1371-1374.	0.7	0
172	Investigation of quartz microbalance and ChemFET transduction of molecular recognition events in a metalloporphyrin film. Sensors and Actuators B: Chemical, 2009, 135, 560-567.	7.8	38
173	Clinical analysis of human urine by means of potentiometric Electronic tongue. Talanta, 2009, 77, 1097-1104.	5.5	57
174	Volatile Compounds Detection by IR Acousto-Optic Detectors. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 21-59.	0.3	5
175	Chemical sensitivity of self-assembled porphyrin nano-aggregates. Nanotechnology, 2009, 20, 055502.	2.6	38
176	Multiparametric light-assisted silicon device transduction of molecular recognition events. , 2009, , .		1
177	A Novel Bio-inspired Digital Signal Processing Method for Chemical Sensor Arrays. Studies in Computational Intelligence, 2009, , 109-120.	0.9	2
178	A portable integrated wide-range gas sensing system with smart A/D front-end. Sensors and Actuators B: Chemical, 2008, 130, 164-174.	7.8	37
179	An array of capacitive sensors based on a commercial fingerprint detectors. Sensors and Actuators B: Chemical, 2008, 130, 264-268.	7.8	9
180	Olfactory systems for medical applications. Sensors and Actuators B: Chemical, 2008, 130, 458-465.	7.8	138

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181	Study of the aroma of artificially flavoured custards by chemical sensor array fingerprinting. Sensors and Actuators B: Chemical, 2008, 133, 345-351.	7.8	34
182	Identification of melanoma with a gas sensor array. Skin Research and Technology, 2008, 14, 226-236.	1.6	87
183	Gas sensitivity of amino acids monolayers. , 2008, , .		0
184	An Experimental Biomimetic Platform for Artificial Olfaction. PLoS ONE, 2008, 3, e3139.	2.5	46
185	ANALYSIS OF VOLATILES IN THE HEADSPACE OF BREAST USING A QMB BASED GAS SENSOR ARRAY FOR BREAST CANCER STUDY: FIRST EVIDENCES. , 2008, , .		1
186	THERMAL â^Î” MODULATION FOR QUARTZ CRYSTALS MICROBALANCES. , 2008, , .		0
187	FIRB "SQUARE" PROJECT: NANO-STRUCTURED SENSORS FOR THE DETECTION OF THE POLLUTING IC ENGINE EXHAUST GASES AND FOR INDOOR AIR QUALITY MONITORING. , 2008, , .		0
188	CHARACTERIZATION OF AMINOACIDS MONOLAYERS AS CHEMICAL SENSORS. , 2008, , .		0
189	SENSITIVITY AMPLIFICATION IN SELF-ASSEMBLED TUBULAR STRUCTURES OF PORPHYRINS. , 2008, , .		0
190	Chemical Sensitivity of Porphyrin Nanotubes. , 2007, , .		0
191	Optical transduction of the chemical sensitivity of porphyrin nanotubes by CSPT platform. , 2007, , .		0
192	FET Transduction of Electric Dipole Changes in Organic Layers. , 2007, , .		0
193	An Integrated Analog Lock-In Amplifier for Low-Voltage Low-Frequency Sensor Interface. , 2007, , .		16
194	Feature extraction of metal oxide gas sensors using dynamic moments. Sensors and Actuators B: Chemical, 2007, 122, 219-226.	7.8	43
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