

Eugenio Martinelli

List of Publications by Year in descending order

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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	Lung cancer identification by the analysis of breath by means of an array of non-selective gas sensors. <i>Biosensors and Bioelectronics</i> , 2003, 18, 1209-1218.	10.1	573
2	Solid-state gas sensors for breath analysis: A review. <i>Analytica Chimica Acta</i> , 2014, 824, 1-17.	5.4	307
3	An investigation on electronic nose diagnosis of lung cancer. <i>Lung Cancer</i> , 2010, 68, 170-176.	2.0	271
4	Diagnostic Performance of an Electronic Nose, Fractional Exhaled Nitric Oxide, and Lung Function Testing in Asthma. <i>Chest</i> , 2010, 137, 790-796.	0.8	191
5	Olfactory systems for medical applications. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 458-465.	7.8	138
6	3D Microfluidic model for evaluating immunotherapy efficacy by tracking dendritic cell behaviour toward tumor cells. <i>Scientific Reports</i> , 2017, 7, 1093.	3.3	130
7	The evaluation of quality of post-harvest oranges and apples by means of an electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2001, 78, 26-31.	7.8	129
8	Dissecting Effects of Anti-cancer Drugs and Cancer-Associated Fibroblasts by On-Chip Reconstitution of Immunocompetent Tumor Microenvironments. <i>Cell Reports</i> , 2018, 25, 3884-3893.e3.	6.4	118
9	Comparison and integration of different electronic noses for freshness evaluation of cod-fish fillets. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 572-578.	7.8	109
10	Application of metalloporphyrins-based gas and liquid sensor arrays to the analysis of red wine. <i>Analytica Chimica Acta</i> , 2004, 513, 49-56.	5.4	104
11	Direct and two-stage data analysis procedures based on PCA, PLS-DA and ANN for ISE-based electronic tongue—Effect of supervised feature extraction. <i>Talanta</i> , 2005, 67, 590-596.	5.5	102
12	Electronic interfaces. <i>Sensors and Actuators B: Chemical</i> , 2007, 121, 295-329.	7.8	93
13	Counteraction of environmental disturbances of electronic nose data by independent component analysis. <i>Sensors and Actuators B: Chemical</i> , 2002, 82, 158-165.	7.8	92
14	Gas-Sensitive Photoconductivity of Porphyrin-Functionalized ZnO Nanorods. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9151-9157.	3.1	90
15	Identification of melanoma with a gas sensor array. <i>Skin Research and Technology</i> , 2008, 14, 226-236.	1.6	87
16	Detection of fungal contamination of cereal grain samples by an electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2006, 119, 425-430.	7.8	86
17	The lung cancer breath signature: a comparative analysis of exhaled breath and air sampled from inside the lungs. <i>Scientific Reports</i> , 2015, 5, 16491.	3.3	82
18	Self-adapted temperature modulation in metal-oxide semiconductor gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 534-541.	7.8	81

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19	Electronic nose based investigation of the sensorial properties of peaches and nectarines. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 561-566.	7.8	76
20	Preparation and Self-assembly of Chiral Porphyrin Diads on the Gold Electrodes of Quartz Crystal Microbalances: A Novel Potential Approach to the Development of Enantioselective Chemical Sensors. <i>Chemistry - A European Journal</i> , 2002, 8, 2476.	3.3	75
21	Feature Extraction of chemical sensors in phase space. <i>Sensors and Actuators B: Chemical</i> , 2003, 95, 132-139.	7.8	72
22	Low-voltage low-power integrated analog lock-in amplifier for gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 400-406.	7.8	72
23	Diagnosis of pulmonary tuberculosis and assessment of treatment response through analyses of volatile compound patterns in exhaled breath samples. <i>Journal of Infection</i> , 2017, 74, 367-376.	3.3	72
24	Organs on chip approach: a tool to evaluate cancer-immune cells interactions. <i>Scientific Reports</i> , 2017, 7, 12737.	3.3	69
25	Speech emotion recognition using amplitude modulation parameters and a combined feature selection procedure. <i>Knowledge-Based Systems</i> , 2014, 63, 68-81.	7.1	66
26	Electronic Nose and Exhaled Breath NMR-based Metabolomics Applications in Airways Disease. <i>Current Topics in Medicinal Chemistry</i> , 2016, 16, 1610-1630.	2.1	65
27	More than apples and oranges - Detecting cancer with a fruit fly's antenna. <i>Scientific Reports</i> , 2014, 4, 3576.	3.3	64
28	Layered Double Hydroxides: A Toolbox for Chemistry and Biology. <i>Crystals</i> , 2019, 9, 361.	2.2	61
29	Investigation of VOCs associated with different characteristics of breast cancer cells. <i>Scientific Reports</i> , 2015, 5, 13246.	3.3	60
30	Clinical analysis of human urine by means of potentiometric Electronic tongue. <i>Talanta</i> , 2009, 77, 1097-1104.	5.5	57
31	An adaptive classification model based on the Artificial Immune System for chemical sensor drift mitigation. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 1017-1026.	7.8	53
32	Gold nanoparticles-peptide based gas sensor arrays for the detection of foodaromas. <i>Biosensors and Bioelectronics</i> , 2013, 42, 618-625.	10.1	52
33	Differential Detection of Potentially Hazardous Fusarium Species in Wheat Grains by an Electronic Nose. <i>PLoS ONE</i> , 2011, 6, e21026.	2.5	51
34	Polylactic is a Sustainable, Low Absorption, Low Autofluorescence Alternative to Other Plastics for Microfluidic and Organ-on-Chip Applications. <i>Analytical Chemistry</i> , 2020, 92, 6693-6701.	6.5	50
35	Electronic tongue based on an array of metallic potentiometric sensors. <i>Talanta</i> , 2006, 70, 833-839.	5.5	49
36	A Fully-Analog Lock-In Amplifier With Automatic Phase Alignment for Accurate Measurements of ppb Gas Concentrations. <i>IEEE Sensors Journal</i> , 2012, 12, 1377-1383.	4.7	49

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37	In situ detection of lung cancer volatile fingerprints using bronchoscopic air-sampling. Lung Cancer, 2012, 77, 46-50.	2.0	49
38	A model to predict fish quality from instrumental features. Sensors and Actuators B: Chemical, 2005, 111-112, 293-298.	7.8	47
39	An Experimental Biomimetic Platform for Artificial Olfaction. PLoS ONE, 2008, 3, e3139.	2.5	46
40	Feature extraction of metal oxide gas sensors using dynamic moments. Sensors and Actuators B: Chemical, 2007, 122, 219-226.	7.8	43
41	Detection and identification of cancers by the electronic nose. Expert Opinion on Medical Diagnostics, 2012, 6, 175-185.	1.6	43
42	Sensitivity-selectivity balance in mass sensors: the case of metalloporphyrins. Journal of Materials Chemistry, 2004, 14, 1281.	6.7	41
43	The influence of gas adsorption on photovoltage in porphyrin coated ZnO nanorods. Journal of Materials Chemistry, 2012, 22, 20032.	6.7	40
44	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
45	Chemical sensitivity of self-assembled porphyrin nano-aggregates. Nanotechnology, 2009, 20, 055502.	2.6	38
46	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
47	Cooperative classifiers for reconfigurable sensor arrays. Sensors and Actuators B: Chemical, 2014, 199, 83-92.	7.8	37
48	Continuous Estimation of Emotions in Speech by Dynamic Cooperative Speaker Models. IEEE Transactions on Affective Computing, 2017, 8, 314-327.	8.3	36
49	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
50	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
51	Early prediction of neoadjuvant chemotherapy response by exploiting a transfer learning approach on breast DCE-MRIs. Scientific Reports, 2021, 11, 14123.	3.3	34
52	Site-Sensitive Gas Sensing and Analyte Discrimination in Langmuir-Blodgett Porphyrin Films. Journal of Physical Chemistry C, 2011, 115, 8189-8194.	3.1	33
53	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
54	Analysis of exhaled breath fingerprints and volatile organic compounds in COPD. COPD Research and Practice, 2015, 1, .	0.7	33

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55	Combining microfluidics with machine learning algorithms for RBC classification in rare hereditary hemolytic anemia. <i>Scientific Reports</i> , 2021, 11, 13553.	3.3	33
56	Identification of mammography anomalies for breast cancer detection by an ensemble of classification models based on artificial immune system. <i>Knowledge-Based Systems</i> , 2016, 101, 60-70.	7.1	32
57	Porphyrin-based array of cross-selective electrodes for analysis of liquid samples. <i>Sensors and Actuators B: Chemical</i> , 2003, 95, 400-405.	7.8	31
58	A sensor array and GC study about VOCs and cancer cells. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 483-488.	7.8	31
59	Surface arrangement dependent selectivity of porphyrins gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 524-532.	7.8	30
60	Optical detection of aflatoxins B in grained almonds using fluorescence spectroscopy and machine learning algorithms. <i>Food Control</i> , 2020, 112, 107073.	5.5	29
61	Early Prediction of Breast Cancer Recurrence for Patients Treated with Neoadjuvant Chemotherapy: A Transfer Learning Approach on DCE-MRIs. <i>Cancers</i> , 2021, 13, 2298.	3.7	29
62	Supramolecular sensing mechanism of corrole thin films. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 72-77.	7.8	27
63	The influence of film morphology and illumination conditions on the sensitivity of porphyrins-coated ZnO nanorods. <i>Analytica Chimica Acta</i> , 2014, 810, 86-93.	5.4	27
64	Targeting LOX-1 Inhibits Colorectal Cancer Metastasis in an Animal Model. <i>Frontiers in Oncology</i> , 2019, 9, 927.	2.8	27
65	From Petri Dishes to Organ on Chip Platform: The Increasing Importance of Machine Learning and Image Analysis. <i>Frontiers in Pharmacology</i> , 2019, 10, 100.	3.5	26
66	The influence of spatial and temporal resolutions on the analysis of cell-cell interaction: a systematic study for time-lapse microscopy applications. <i>Scientific Reports</i> , 2019, 9, 6789.	3.3	25
67	Optimized Feature Extraction for Temperature-Modulated Gas Sensors. <i>Journal of Sensors</i> , 2009, 2009, 1-10.	1.1	22
68	Short time gas delivery pattern improves long-term sensor reproducibility. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 753-759.	7.8	22
69	Efficient sensing approaches for high-density memristor sensor array. <i>Journal of Computational Electronics</i> , 2018, 17, 1285-1296.	2.5	22
70	Rapid Manufacturing of Multilayered Microfluidic Devices for Organ on a Chip Applications. <i>Sensors</i> , 2021, 21, 1382.	3.8	22
71	Learning Cancer-Related Drug Efficacy Exploiting Consensus in Coordinated Motility Within Cell Clusters. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2882-2888.	4.2	21
72	Oncoimmunology Meets Organs-on-Chip. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 627454.	3.5	21

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73	An alternative global feature extraction of temperature modulated micro-hotplate gas sensors array using an energy vector approach. Sensors and Actuators B: Chemical, 2007, 124, 352-359.	7.8	20
74	An Investigation on the Role of Spike Latency in an Artificial Olfactory System. Frontiers in Neuroengineering, 2011, 4, 16.	4.8	20
75	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
76	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
77	Light-Activated Porphyrinoid-Capped Nanoparticles for Gas Sensing. ACS Applied Nano Materials, 2021, 4, 414-424.	5.0	19
78	Optimizing MOX sensor array performances with a reconfigurable self-adaptive temperature modulation interface. Sensors and Actuators B: Chemical, 2021, 333, 129509.	7.8	19
79	Interpretation of exhaled volatile organic compounds. , 2010, , 115-129.		19
80	A Novel Approach for Prostate Cancer Diagnosis using a Gas Sensor Array. Procedia Engineering, 2012, 47, 1113-1116.	1.2	18
81	An Exploration of the Metal Dependent Selectivity of a Metalloporphyrins Coated Quartz Microbalances Array. Sensors, 2016, 16, 1640.	3.8	18
82	Electro-Optical Classification of Pollen Grains via Microfluidics and Machine Learning. IEEE Transactions on Biomedical Engineering, 2022, 69, 921-931.	4.2	18
83	Understanding Odor Information Segregation in the Olfactory Bulb by Means of Mitral and Tufted Cells. PLoS ONE, 2014, 9, e109716.	2.5	17
84	Conductive Photo-Activated Porphyrin-ZnO Nanostructured Gas Sensor Array. Sensors, 2017, 17, 747.	3.8	17
85	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
86	Thickness shear mode resonator sensors for the detection of androstenone in pork fat. Sensors and Actuators B: Chemical, 2003, 91, 169-174.	7.8	16
87	An Integrated Analog Lock-In Amplifier for Low-Voltage Low-Frequency Sensor Interface. , 2007, , .		16
88	Combining porphyrins and pH indicators for analyte detection. Analytical and Bioanalytical Chemistry, 2015, 407, 3975-3984.	3.7	16
89	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
90	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

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91	Chemical sensors clustering with the dynamic moments approach. <i>Sensors and Actuators B: Chemical</i> , 2004, 101, 346-352.	7.8	15
92	A preliminary analysis of volatile metabolites of human induced pluripotent stem cells along the in vitro differentiation. <i>Scientific Reports</i> , 2017, 7, 1621.	3.3	15
93	Porphyryns for olfaction mimic: The Rome Tor Vergata approach. <i>Journal of Porphyryns and Phthalocyanines</i> , 2017, 21, 769-781.	0.8	15
94	Self-Repairing classification algorithms for chemical sensor array. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126721.	7.8	15
95	Metalloporphyryns-functionalized carbon nanotube networked films for room-temperature VOCs sensing applications. <i>Procedia Chemistry</i> , 2009, 1, 975-978.	0.7	14
96	Stable Odor Recognition by a neuro-adaptive Electronic Nose. <i>Scientific Reports</i> , 2015, 5, 10960.	3.3	14
97	Detection of diverse potential threats in water with an array of optical sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 997-1004.	7.8	14
98	The spectral treasure house of miniaturized instruments for food safety, quality and authenticity applications: A perspective. <i>Trends in Food Science and Technology</i> , 2021, 110, 841-848.	15.1	14
99	Design and test of an electronic nose for monitoring the air quality in the international space station. <i>Microgravity Science and Technology</i> , 2007, 19, 60-64.	1.4	13
100	Optical anisotropy readout in solid-state porphyryns for the detection of volatile compounds. <i>Applied Physics Letters</i> , 2009, 95, 091906.	3.3	13
101	An artificial olfaction system based on the optical imaging of a large array of chemical reporters. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 412-417.	7.8	13
102	Identification of a Large Pool of Microorganisms with an Array of Porphyryn Based Gas Sensors. <i>Sensors</i> , 2016, 16, 466.	3.8	13
103	Calibration of Vision-Based Measurement of Pain Intensity With Multiple Expert Observers. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 2442-2450.	4.7	13
104	Multi-scale generative adversarial network for improved evaluation of cell-cell interactions observed in organ-on-chip experiments. <i>Neural Computing and Applications</i> , 2021, 33, 3671-3689.	5.6	13
105	Sensor array detection of malaria volatile signature in a murine model. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 341-351.	7.8	12
106	Towards localization of malignant sites of asymmetry across bilateral mammograms. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 140, 11-18.	4.7	12
107	Apoptosis mapping in space and time of 3D tumor ecosystems reveals transmissibility of cytotoxic cancer death. <i>PLoS Computational Biology</i> , 2021, 17, e1008870.	3.2	12
108	An array of physical sensors and an adaptive regression strategy for emotion recognition in a noisy scenario. <i>Sensors and Actuators A: Physical</i> , 2017, 267, 48-59.	4.1	12

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109	Monitoring of biological odour filtration in closed environments with olfactometry and an electronic nose. <i>Water Science and Technology</i> , 2004, 50, 93-100.	2.5	11
110	Spike encoding of artificial olfactory sensor signals. <i>Sensors and Actuators B: Chemical</i> , 2006, 119, 234-238.	7.8	11
111	Orthogonal decomposition of chemo-sensory cues. <i>Sensors and Actuators B: Chemical</i> , 2011, 159, 126-134.	7.8	11
112	Chemically mediated species recognition in two sympatric Grayling butterflies: <i>Hipparchia fagi</i> and <i>Hipparchia hermione</i> (Lepidoptera: Nymphalidae, Satyrinae). <i>PLoS ONE</i> , 2018, 13, e0199997.	2.5	11
113	Analog automatic lock-in amplifier for very low gas concentration detection. <i>Procedia Engineering</i> , 2010, 5, 200-203.	1.2	10
114	Polymer matrices effects on the sensitivity and the selectivity of optical chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2011, 154, 220-225.	7.8	10
115	Adaptive classification model based on artificial immune system for breast cancer detection. , 2015, , .		10
116	On the Role of PTB7â€¢Th:[70]PCBM Blend Concentration in <i>ortho</i>â€¢Xylene on Polymer Solarâ€¢Cell Performance. <i>Energy Technology</i> , 2017, 5, 2168-2174.	3.8	10
117	Volatile compounds emission from teratogenic human pluripotent stem cells observed during their differentiation in vivo. <i>Scientific Reports</i> , 2018, 8, 11056.	3.3	10
118	Deep-MEG: spatiotemporal CNN features and multiband ensemble classification for predicting the early signs of Alzheimerâ€¢s disease with magnetoencephalography. <i>Neural Computing and Applications</i> , 2021, 33, 14651-14667.	5.6	10
119	Machine learning phenomics (MLP) combining deep learning with time-lapse-microscopy for monitoring colorectal adenocarcinoma cells gene expression and drug-response. <i>Scientific Reports</i> , 2022, 12, .	3.3	10
120	Sensors small and numerous: always a winning strategy?. <i>Sensors and Actuators B: Chemical</i> , 2005, 106, 144-152.	7.8	9
121	An array of capacitive sensors based on a commercial fingerprint detectors. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 264-268.	7.8	9
122	Room Temperature CO Detection by Hybrid Porphyrin-ZnO Nanoparticles. <i>Procedia Engineering</i> , 2015, 120, 71-74.	1.2	9
123	An emotional modulation model as signature for the identification of children developmental disorders. <i>Scientific Reports</i> , 2018, 8, 14487.	3.3	9
124	Deciphering Cancer Cell Behavior From Motility and Shape Features: Peer Prediction and Dynamic Selection to Support Cancer Diagnosis and Therapy. <i>Frontiers in Oncology</i> , 2020, 10, 580698.	2.8	9
125	1/f noise and its unusual high-frequency deactivation at high biasing currents in carbon black polymers with residual 1/f ³ (l ³ =2.2) noise and a preliminary estimation of the average trap energy. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 577-585.	7.8	8
126	Cooperative strategy for a dynamic ensemble of classification models in clinical applications: the case of MRI vertebral compression fractures. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1971-1983.	2.8	8

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127	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
128	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
129	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
130	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
131	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
132	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
133	The Missing Applications Found: Robust Design Techniques and Novel Uses of Memristors. , 2019, , .		7
134	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
135	COPD diagnosis by a gas sensor array. Procedia Engineering, 2010, 5, 484-487.	1.2	6
136	Sharing data processing among replicated optical sensor arrays. Sensors and Actuators B: Chemical, 2013, 179, 252-258.	7.8	6
137	Strength Is in Numbers: Can Concordant Artificial Listeners Improve Prediction of Emotion from Speech?. PLoS ONE, 2016, 11, e0161752.	2.5	6
138	Robust classification of biological samples in atomic force microscopy images via multiple filtering cooperation. Knowledge-Based Systems, 2017, 133, 221-233.	7.1	6
139	NeuriTES. Monitoring neurite changes through transfer entropy and semantic segmentation in bright-field time-lapse microscopy. Patterns, 2021, 2, 100261.	5.9	6
140	DATA ANALYSIS FOR CHEMICAL SENSOR ARRAYS. , 2006, , 147-169.		6
141	A Lab-on-a-Chip Based Automatic Platform for Continuous Nitrites Sensing in Aquaculture. Sensors, 2022, 22, 444.	3.8	6
142	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
143	Self-adaptive thermal modulation of gas sensors. Procedia Engineering, 2010, 5, 156-159.	1.2	5
144	Gas Sensitivity of Blends of Metalloporphyrins and Colorimetric Acid-Base Indicators. Procedia Engineering, 2011, 25, 1413-1416.	1.2	5

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145	Data processing for image-based chemical sensors: unsupervised region of interest selection and background noise compensation. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 823-832.	3.7	5
146	Continuous Monitoring of Emotions by a Multimodal Cooperative Sensor System. <i>Procedia Engineering</i> , 2015, 120, 556-559.	1.2	5
147	Fault Modeling and Simulation of Memristor based Gas Sensors. , 2019, , .		5
148	A Camera Sensors-Based System to Study Drug Effects on In Vitro Motility: The Case of PC-3 Prostate Cancer Cells. <i>Sensors</i> , 2020, 20, 1531.	3.8	5
149	Metrological Characterization of a Pain Detection System Based on Transfer Entropy of Facial Landmarks. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	5
150	A micromachined gold-palladium Kelvin probe for hydrogen sensing. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 418-424.	7.8	4
151	An On-line Reconfigurable Classification Algorithm Improves the Long-term Stability of Gas Sensor Arrays in Case of Faulty and Drifting Sensors. <i>Procedia Engineering</i> , 2015, 120, 249-252.	1.2	4
152	Reliable gas sensing with memristive array. , 2017, , .		4
153	A Deep Learning Strategy for Vision-Based Evaluation on the Effect of Nanoparticles Exposure. , 2018, , .		4
154	A closed-form solution to the graph total variation problem for continuous emotion profiling in noisy environment. <i>Speech Communication</i> , 2018, 104, 66-72.	2.8	4
155	Temperature and Flow Velocity Control for Quartz Crystal Microbalances. , 0, , .		3
156	Monocarboxy Tetraphenylporphyrin functionalized ZnO nanorods photoactivated gas sensor. <i>Procedia Engineering</i> , 2011, 25, 1333-1336.	1.2	3
157	An active temperature modulation of gas sensor based on a self-adaptive strategy. , 2013, , .		3
158	An Investigation about the origin of the lung cancer signalling VOCs in breath. , 2014, , .		3
159	The Gas Sensing Properties of Porphyrins-coated Laterally Grown ZnO Nanorods. <i>Procedia Engineering</i> , 2014, 87, 1039-1042.	1.2	3
160	Drift Correction in a Porphyrin-coated ZnO Nanorods Gas Sensor. <i>Procedia Engineering</i> , 2014, 87, 608-611.	1.2	3
161	AFM-based robust image analysis to contrast reversal effects in cell-cerium oxide nanoparticles interactions. , 2017, , .		3
162	Complementary Resistive Switch Sensing. , 2018, , .		3

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163	A Multi-label Architecture for Vision-based Measurement of Intervals of Pain. , 2018, , .		3
164	Thermoelectric Properties of Carbon Nanotubes Layers. Lecture Notes in Electrical Engineering, 2011, , 73-79.	0.4	3
165	COMPARISON BETWEEN TWO ALTERNATIVE FEATURE EXTRACTION METHODS FOR CHEMICAL SENSOR ARRAY. , 2004, , .		3
166	Preprocessing of electronic nose data by independent component analysis. , 0, , .		2
167	Facile sensors replacement in optical gas sensors array. Procedia Engineering, 2011, 25, 35-38.	1.2	2
168	Gas Sensitivity of the Surface Potential of Hybrid Porphyrin-ZnO Nanorods. Procedia Engineering, 2012, 47, 446-449.	1.2	2
169	An Ensemble of Adaptive Classifiers for Improving Faulty and Drifting Sensor Performance. Procedia Engineering, 2012, 47, 1275-1278.	1.2	2
170	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
171	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
172	Normalizing brain activity across individuals using functional reference mapping. Scientific Reports, 2017, 7, 17128.	3.3	2
173	A Personalized Assessment Platform for Non-invasive Monitoring of Pain. , 2020, , .		2
174	A microfluidic device for shape measurement in red blood cells (RBCs). , 2020, , .		2
175	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
176	A Novel Bio-inspired Digital Signal Processing Method for Chemical Sensor Arrays. Studies in Computational Intelligence, 2009, , 109-120.	0.9	2
177	Metalloporphyrin-Modified Carbon Nanotube Layers for Gas Microsensors. Sensor Letters, 2011, 9, 913-919.	0.4	2
178	Reduction of false-positives in a CAD scheme for automated detection of architectural distortion in digital mammography. , 2018, , .		2
179	Array of opto-chemical sensors based on a fiber-optic spectroscopy. , 0, , .		1
180	Monitoring of biofiltration efficiency of bioreactor exhaust air by an electronic nose. , 0, , .		1

#	ARTICLE	IF	CITATIONS
181	A CMOS Integrable DDCCII-Based Readout System For Portable Potentiometric Sensors Array. , 2009, , .		1
182	An Experimental Methodology For The Analysis Of The Headspace Of In-Vitro Culture Cells. , 2009, , .		1
183	Design Of A Sorbentâ•desorbent Unit For Sample Pre-treatment Optimized For QMB Gas Sensors. , 2009, , .		1
184	Bringing Chromatography Back To Colour. , 2009, , .		1
185	Multiparametric light-assisted silicon device transduction of molecular recognition events. , 2009, , .		1
186	Testing olfactory models with an artificial experimental platform. , 2010, , .		1
187	COPD Identification By The Analysis Of Breath With An Electronic Nose. , 2011, , .		1
188	Indicators Blends Extend the Receptive Field of Colorimetric Chemical Sensors. Procedia Engineering, 2012, 47, 1189-1190.	1.2	1
189	The gas sensing properties of one-pot prepared porphyrin-ZnO nanoparticles. , 2015, , .		1
190	Optimizing an array of self adapted temperature modulated metal oxide sensors for biomedical application. , 2017, , .		1
191	Willingness towards cognitive engagement: a preliminary study based on a behavioural entropy approach. Experimental Brain Research, 2019, 237, 995-1007.	1.5	1
192	Yield Estimation of a Memristive Sensor Array. , 2020, , .		1
193	CHEMICAL IMAGES OF LIQUIDS. , 2007, , 63-95.		1
194	ELECTRONIC NOSE BASED ALTERNATIVE METHOD FOR THE DETERMINATION OF CAPSAICIN IN HOT CHILI PEPPER. , 2000, , .		1
195	ANALYSIS OF VOLATILES IN THE HEADSPACE OF BREAST USING A QMB BASED GAS SENSOR ARRAY FOR BREAST CANCER STUDY: FIRST EVIDENCES. , 2008, , .		1
196	Analysis of exhaled air for a rapid, sensible and specific diagnosis of COPD. , 2015, , .		1
197	Sensing with Memristive Complementary Resistive Switch: Modelling and Simulations. , 2020, , .		1
198	Low power memristive gas sensor architectures with improved sensing accuracy. Journal of Computational Electronics, 2022, 21, 1005-1016.	2.5	1

#	ARTICLE	IF	CITATIONS
199	SIGNAL ANALYSIS BY THE STUDY OF THE TRAJECTORIES OF THE DERIVATIVES OF SIGNALS. , 2000, , .		0
200	An 'electronic tongue' system based on an array of metallic potentiometric sensors. , 0, , .		0
201	Chemical sensors clustering with the dynamic moments approach. Sensors and Actuators B: Chemical, 2004, , .	7.8	0
202	Soyuz missions and taxi flights. New opportunities for technology development. An example: The ENEIDE mission. Acta Astronautica, 2006, 59, 351-357.	3.2	0
203	Chemical Sensitivity of Porphyrin Nanotubes. , 2007, , .		0
204	Optical transduction of the chemical sensitivity of porphyrin nanotubes by CSPT platform. , 2007, , .		0
205	FET Transduction of Electric Dipole Changes in Organic Layers. , 2007, , .		0
206	Gas sensitivity of amino acids monolayers. , 2008, , .		0
207	An Artificial Olfaction System Formed by a Massive Sensors Array Dispersed in a Diffusion Media and an Automatically Formed Glomeruli Layer. , 2009, , .		0
208	Porphyrin Electropolymers For Application In Hyphenated Chemical Sensors. , 2009, , .		0
209	Optical Sensor Response Modulation Using Different Polymeric Matrices. Procedia Chemistry, 2009, 1, 1371-1374.	0.7	0
210	Artificial immune systems for Artificial Olfaction data analysis: Comparison between AIRS and ANN models. , 2010, , .		0
211	Orthogonal Decomposition of Chemo-Sensory Signals: Discriminating Odorants in a Turbulent Ambient. Procedia Engineering, 2011, 25, 491-494.	1.2	0
212	Electronic Nose Characterization of the Quality Parameters of Freeze-Dried Bacteria. , 2011, , .		0
213	A Supervised Feature Extraction Method For GC-MS Data Based On PLS. Application To Olive Oil Adulteration Detection. , 2011, , .		0
214	Colors and Odors: Porphyrinoids Based Artificial Olfaction Systems. , 2011, , .		0
215	The Role of Spike Temporal Latencies in Artificial Olfaction. , 2011, , .		0
216	Olive Oil Headspace Characterization by a Gas Sensor Array. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
217	An Olfactory Bulb Model Mitigates the Drift in Chemical Sensors. <i>Procedia Engineering</i> , 2012, 47, 1069-1072.	1.2	0
218	Identification of stem cells differentiation steps. , 2017, , .		0
219	Editorial: Tumor Systems Biology: How to Therapeutically Redirect Dysregulated Homeostasis in Tumor Systems (i.e., Anakoiosis). <i>Frontiers in Oncology</i> , 2020, 10, 1675.	2.8	0
220	A Memristive Architecture for Process Variation Aware Gas Sensing and Logic Operations. , 2021, , .		0
221	Reliability Assessment of Memristor based Gas Sensor Array. , 2021, , .		0
222	THE APPLICATION OF AN ELECTRONIC NOSE AS A PREDICTIVE TECHNIQUE AGAINST HUMAN DIABETIC NEPHROPATHY. , 2000, , .		0
223	NEW APPLICATIONS OF MILLER EFFECT. , 2001, , .		0
224	NEW CIRCUITS FOR ACCURATE CMOS SENSOR INTERFACES. , 2001, , .		0
225	INDEPENDENT COMPONENT ANALYSIS OF ELECTRONIC NOSE DATA. , 2002, , .		0
226	CLASSIFICATION OF COMPLEX MIXTURES WITH AN ELECTRONIC NOSE: THE CASE OF PHARMACEUTICAL PRODUCTS. , 2004, , .		0
227	MONITORING OF ENVIRONMENTAL ODOURS BY AN ELECTRONIC NOSE: WASTE WATER TREATMENT PLANT AND RUBBISH DUMP, THREE CASE STUDIES. , 2005, , .		0
228	THERMAL "MODULATION FOR QUARTZ CRYSTALS MICROBALANCES. , 2008, , .		0
229	FIRB "SQUARE" PROJECT: NANO-STRUCTURED SENSORS FOR THE DETECTION OF THE POLLUTING IC ENGINE EXHAUST GASES AND FOR INDOOR AIR QUALITY MONITORING. , 2008, , .		0
230	CHARACTERIZATION OF AMINOACIDS MONOLAYERS AS CHEMICAL SENSORS. , 2008, , .		0
231	SENSITIVITY AMPLIFICATION IN SELF-ASSEMBLED TUBULAR STRUCTURES OF PORPHYRINS. , 2008, , .		0
232	Electronic Nose Applications in Medical Diagnose. , 2010, , 233-247.		0
233	An Analog Automatic Lock-In Amplifier for the Accurate Detection of Very Low Gas Concentrations. <i>Lecture Notes in Electrical Engineering</i> , 2012, , 285-291.	0.4	0
234	Dissecting Effects of Anti-cancer Drugs and of Cancer-associated Fibroblasts by On-chip Reconstitution of Immunocompetent Tumor Microenvironments. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
235	Compared EC-AFM Analysis of Laser-Induced Graphene and Graphite Electrodes in Sulfuric Acid Electrolyte. <i>Molecules</i> , 2021, 26, 7333.	3.8	0