

Marco Santonico

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

3,013
citations

172457

29
h-index

168389

53
g-index

118
all docs

118
docs citations

118
times ranked

3390
citing authors

#	ARTICLE	IF	CITATIONS
1	A European Respiratory Society technical standard: exhaled biomarkers in lung disease. <i>European Respiratory Journal</i> , 2017, 49, 1600965.	6.7	432
2	An investigation on electronic nose diagnosis of lung cancer. <i>Lung Cancer</i> , 2010, 68, 170-176.	2.0	271
3	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
4	Olfactory systems for medical applications. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 458-465.	7.8	138
5	Volatile signature for the early diagnosis of lung cancer. <i>Journal of Breath Research</i> , 2016, 10, 016007.	3.0	108
6	Fish freshness detection by a computer screen photoassisted based gas sensor array. <i>Analytica Chimica Acta</i> , 2007, 582, 320-328.	5.4	93
7	Identification of melanoma with a gas sensor array. <i>Skin Research and Technology</i> , 2008, 14, 226-236.	1.6	87
8	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
9	A preliminary study on the possibility to diagnose urinary tract cancers by an electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 1-4.	7.8	77
10	Identification and prospective stability of electronic nose (eNose)-derived inflammatory phenotypes in patients with severe asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 1811-1820.e7.	2.9	74
11	Electronic nose to study postharvest dehydration of wine grapes. <i>Food Chemistry</i> , 2010, 121, 789-796.	8.2	62
12	Design and Test of a Biosensor-Based Multisensorial System: A Proof of Concept Study. <i>Sensors</i> , 2013, 13, 16625-16640.	3.8	60
13	Electronic nose and GC-MS analysis of volatile compounds in Tuber magnatum Pico: Evaluation of different storage conditions. <i>Food Chemistry</i> , 2013, 136, 668-674.	8.2	57
14	Exhaled breath analysis by electronic nose in respiratory diseases. <i>Expert Review of Molecular Diagnostics</i> , 2015, 15, 933-956.	3.1	52
15	Chronic Obstructive Pulmonary Disease in the elderly. <i>European Journal of Internal Medicine</i> , 2014, 25, 320-328.	2.2	51
16	Differential Detection of Potentially Hazardous Fusarium Species in Wheat Grains by an Electronic Nose. <i>PLoS ONE</i> , 2011, 6, e21026.	2.5	51
17	In situ detection of lung cancer volatile fingerprints using bronchoscopic air-sampling. <i>Lung Cancer</i> , 2012, 77, 46-50.	2.0	49
18	Reproducibility and Respiratory Function Correlates of Exhaled Breath Fingerprint in Chronic Obstructive Pulmonary Disease. <i>PLoS ONE</i> , 2012, 7, e45396.	2.5	47

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19	Carbon nanotubes modified with porphyrin units for gaseous phase chemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2012, 170, 163-171.	7.8	44
20	Detection and identification of cancers by the electronic nose. <i>Expert Opinion on Medical Diagnostics</i> , 2012, 6, 175-185.	1.6	43
21	Prostate cancer diagnosis through electronic nose in the urine headspace setting: a pilot study. <i>Prostate Cancer and Prostatic Diseases</i> , 2014, 17, 206-211.	3.9	43
22	Screening of volatile compounds composition of white truffle during storage by GCxGC-(FID/MS) and gas sensor array analyses. <i>LWT - Food Science and Technology</i> , 2015, 60, 905-913.	5.2	42
23	Breath-print analysis by e-nose for classifying and monitoring chronic liver disease: a proof-of-concept study. <i>Scientific Reports</i> , 2016, 6, 25337.	3.3	41
24	BIONOTE e-nose technology may reduce false positives in lung cancer screening programmes. <i>European Journal of Cardio-thoracic Surgery</i> , 2016, 49, 1112-1117.	1.4	38
25	Comorbidity modulates non invasive ventilation-induced changes in breath print of obstructive sleep apnea syndrome patients. <i>Sleep and Breathing</i> , 2015, 19, 623-630.	1.7	37
26	Breathprinting and Early Diagnosis of Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2018, 13, 883-894.	1.1	36
27	Study of the aroma of artificially flavoured custards by chemical sensor array fingerprinting. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 345-351.	7.8	34
28	Electronic noses calibration procedure in the context of a multicentre medical study. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 555-561.	7.8	34
29	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
30	Measure chain for exhaled breath collection and analysis: A novel approach suitable for frail respiratory patients. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 578-587.	7.8	29
31	Environmental conditions influence the biochemical properties of the fruiting bodies of <i>Tuber magnatum</i> Pico. <i>Scientific Reports</i> , 2018, 8, 7243.	3.3	27
32	A sensor array based on mass and capacitance transducers for the detection of adulterated gasolines. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 508-513.	7.8	26
33	Application of a quartz microbalance based gas sensor array for the study of halitosis. <i>Journal of Breath Research</i> , 2008, 2, 017009.	3.0	25
34	Multi-Sensor Approach for the Monitoring of Halitosis Treatment via <i>Lactobacillus brevis</i> (CD2)â€”Containing Lozengesâ€”A Randomized, Double-Blind Placebo-Controlled Clinical Trial. <i>Sensors</i> , 2015, 15, 19583-19596.	3.8	24
35	Short time gas delivery pattern improves long-term sensor reproducibility. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 753-759.	7.8	22
36	Screening of Obstructive Sleep Apnea Syndrome by Electronic-Nose Analysis of Volatile Organic Compounds. <i>Scientific Reports</i> , 2017, 7, 11938.	3.3	22

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37	Unmasking of Olive Oil Adulteration Via a Multi-Sensor Platform. <i>Sensors</i> , 2015, 15, 21660-21672.	3.8	21
38	Monitoring of melanoma released volatile compounds by a gas sensors array: From in vitro to in vivo experiments. <i>Sensors and Actuators B: Chemical</i> , 2011, 154, 288-294.	7.8	20
39	Validation of exhaled volatile organic compounds analysis using electronic nose as index of COPD severity. <i>International Journal of COPD</i> , 2018, Volume 13, 1441-1448.	2.3	20
40	Sorting of apricots with computer screen photoassisted spectral reflectance analysis and electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2006, 119, 70-77.	7.8	18
41	A Novel Approach for Prostate Cancer Diagnosis using a Gas Sensor Array. <i>Procedia Engineering</i> , 2012, 47, 1113-1116.	1.2	18
42	Narrowing the gap between breathprinting and disease diagnosis, a sensor perspective. <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 270-275.	7.8	18
43	Development and Test of a Portable ECG Device with Dry Capacitive Electrodes and Driven Right Leg Circuit. <i>Sensors</i> , 2021, 21, 2777.	3.8	16
44	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
45	Chemical Sensors for Prostate Cancer Detection Oriented to Non-invasive Approach. <i>Procedia Engineering</i> , 2014, 87, 320-323.	1.2	13
46	Equivalent electric circuits for chemical sensors in the Langmuir regime. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 214-220.	7.8	13
47	Cluster analysis on breath print of newly diagnosed COPD patients: effects of therapy. <i>Journal of Breath Research</i> , 2018, 12, 036022.	3.0	12
48	Advances in the Electronics for Cyclic Voltammetry: the Case of Gas Detection by Using Microfabricated Electrodes. <i>Frontiers in Chemistry</i> , 2018, 6, 327.	3.6	12
49	Non-invasive monitoring of lower-limb ulcers via exudate fingerprinting using BIONOTE. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 68-74.	7.8	11
50	Breathprint analysis by e-nose may refine risk stratification for adverse outcomes in cirrhotic patients. <i>Liver International</i> , 2017, 37, 242-250.	3.9	11
51	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
52	Repeatability of exhaled breath fingerprint collected by a modern sampling system in asthmatic and healthy children. <i>Journal of Breath Research</i> , 2019, 13, 036007.	3.0	11
53	Evaluation of the performance of sensors based on optical imaging of a chemically sensitive layer. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 613-621.	3.7	10
54	Electronic Interface for a Gas Sensor System Based on 32 MHz QCMs: Design and Calibration. <i>IEEE Sensors Journal</i> , 2018, 18, 1419-1426.	4.7	10

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55	Investigating a single sensor ability in the characterisation of drinkable water: a pilot study. <i>Water and Environment Journal</i> , 2016, 30, 253-260.	2.2	9
56	Voltammetric analysis for fast and inexpensive diagnosis of urinary tract infection: a diagnostic study. <i>Journal of Translational Medicine</i> , 2018, 16, 17.	4.4	9
57	Design and Development of an Electronic Interface for Gas Detection and Exhaled Breath Analysis in Liquids. <i>IEEE Sensors Journal</i> , 2018, 18, 31-36.	4.7	8
58	CO2 and O2 Detection by Electric Field Sensors. <i>Sensors</i> , 2020, 20, 668.	3.8	8
59	Detection of Natural Cr(VI) with Computer Screen Photo-assisted Technology. <i>Procedia Chemistry</i> , 2009, 1, 317-320.	0.7	7
60	Design And Development Of An Innovative Sensor System For Non-Invasive Monitoring Of Athletic Performances. , 2019, , .		7
61	Melanoma Volatile Fingerprint with a Gas Sensor Array: In Vivo and In Vitro Study. <i>Procedia Chemistry</i> , 2009, 1, 995-998.	0.7	6
62	COPD diagnosis by a gas sensor array. <i>Procedia Engineering</i> , 2010, 5, 484-487.	1.2	6
63	A Gas Sensor Device for Oxygen and Carbon Dioxide Detection. <i>Proceedings (mdpi)</i> , 2017, 1, 447.	0.2	6
64	An Open-Source Smart Sensor Architecture for Edge Computing in IoT Applications. <i>Proceedings (mdpi)</i> , 2018, 2, 955.	0.2	6
65	Gut Microbiota and Related Electronic Multisensorial System Changes in Subjects With Symptomatic Uncomplicated Diverticular Disease Undergoing Rifaximin Therapy. <i>Frontiers in Medicine</i> , 2021, 8, 655474.	2.6	6
66	DATA ANALYSIS FOR CHEMICAL SENSOR ARRAYS. , 2006, , 147-169.		6
67	A Gas Sensor with BLE connectivity for Wearable Applications â€. <i>Proceedings (mdpi)</i> , 2018, 2, 765.	0.2	5
68	A Sensor Platform for Athletesâ€™ Training Supervision: A Proof of Concept Study. <i>Sensors</i> , 2019, 19, 3948.	3.8	5
69	Voltammetric analysis for distinguishing portal hypertension-related from malignancy-related ascites: A proof of concept study. <i>PLoS ONE</i> , 2020, 15, e0233350.	2.5	5
70	Microbiological Risk Assessment of Ready-to-Eat Leafy Green Salads via a Novel Electrochemical Sensor. <i>Chemosensors</i> , 2022, 10, 134.	3.6	5
71	SWCNTs Modified with Porphyrin Units for Chemical Sensing Applications. <i>Procedia Engineering</i> , 2010, 5, 1043-1046.	1.2	4
72	An Innovative Liquid Biosensor for the Detection of Lipid Molecules Involved in Diseases of the Nervous System. <i>Proceedings (mdpi)</i> , 2018, 2, 760.	0.2	4

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73	A Smart Sensor Architecture for eHealth Applications. , 2018, , .		4
74	Use of voltammetric analysis for fast and objective discrimination of the etiology, evolution, and bacterial infection of lower limb ulcers. Wound Repair and Regeneration, 2019, 27, 288-291.	3.0	4
75	Design of an Innovative Methodology for Cerebrospinal Fluid Analysis: Preliminary Results. Sensors, 2021, 21, 3767.	3.8	4
76	Single beat ECG-based Identification System: development and robustness test in different working conditions. , 2021, , .		4
77	Exhaled Breath Analysis for the Monitoring of Elderly COPD Patients Health-state. , 2011, , .		3
78	An Investigation about the origin of the lung cancer signalling VOCs in breath. , 2014, , .		3
79	The Presence of the Fibonacci Numbers in Passive Ladder Networks: The Case of Forbidden Bands [Historical Corner]. IEEE Antennas and Propagation Magazine, 2014, 56, 275-287.	1.4	3
80	Resonant Directly Coupled Inductorsâ€“Capacitors Ladder Network Shows a New, Interesting Property Useful for Application in the Sensor Field, Down to Micrometric Dimensions. Micromachines, 2018, 9, 343.	2.9	3
81	Characterization of inflammatory profile by breath analysis in chronic coronary syndromes. Journal of Cardiovascular Medicine, 2020, 21, 675-681.	1.5	3
82	Integration of voltammetric analysis, protein electrophoresis and pH measurement for diagnosis of pleural effusions: a non-conventional diagnostic approach. Scientific Reports, 2020, 10, 15222.	3.3	3
83	A Multi-Sensor System for Sea Water Iodide Monitoring and Seafood Quality Assurance: Proof-of-Concept Study. Sensors, 2021, 21, 4464.	3.8	3
84	Breathprinting of liver diseases. , 2015, , .		2
85	A simplified architecture for differential capacitance sensors. , 2015, , .		2
86	A Non Invasive Sensor System for the Screening of Obstructive Sleep Apnea Syndrome. Proceedings (mdpi), 2017, 1, 426.	0.2	2
87	Introduction. Breathprinting: What, Why, How. , 2019, , 1-11.		2
88	Modular QMB sensors array for E-health applications. , 2020, , .		2
89	BIONOTE as an Innovative Biosensor for Measuring Endocannabinoid Levels. Sensors, 2021, 21, 489.	3.8	2
90	Biosensors for Detection and Monitoring of Joint Infections. Chemosensors, 2021, 9, 256.	3.6	2

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91	Proof of Concept Study of an Electrochemical Sensor for Inland Water Monitoring with a Network Approach. Remote Sensing, 2021, 13, 4026.	4.0	2
92	An Experimental Methodology For The Analysis Of The Headspace Of In-Vitro Culture Cells. , 2009, , .		1
93	Design Of A Sorbentâ•desorbent Unit For Sample Pre-treatment Optimized For QMB Gas Sensors. , 2009, , .		1
94	COPD Identification By The Analysis Of Breath With An Electronic Nose. , 2011, , .		1
95	An investigation on e-nose platform relevance to respiratory diseases. , 2014, , .		1
96	A multi-frequency system for glucose detection with optical sensors. , 2015, , .		1
97	A Sensor System for the Monitoring of Production Processes of Low FODMAP Food. Proceedings (mdpi), 2018, 2, 761.	0.2	1
98	Characterization of innovative sensors for volatile organic compounds trace compounds in biogas. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2321.	1.5	1
99	Heart Rate Analysis through Smartphone Camera. , 2021, , .		1
100	Ultrasound Based Sensor for Fat Detection in Fresh Milk. Lecture Notes in Electrical Engineering, 2014, , 499-502.	0.4	1
101	Gas sensitivity of amino acids monolayers. , 2008, , .		0
102	Investigating the structure-sensitivity relationship of metalloporphyrins based chemical sensors. Procedia Chemistry, 2009, 1, 228-231.	0.7	0
103	Monitoring the Halitosis with an Electronic Nose. , 2011, , .		0
104	Electronic Nose Characterization of the Quality Parameters of Freeze-Dried Bacteria. , 2011, , .		0
105	Olive Oil Headspace Characterization by a Gas Sensor Array. , 2011, , .		0
106	Chemical Sensor Approach to Volatile Phenotyping of Respiratory Diseases. Procedia Engineering, 2014, 87, 664-667.	1.2	0
107	Innovative IAQ Organic Sensor. Procedia Engineering, 2014, 87, 1326-1329.	1.2	0
108	A sensorial platform for mozzarella cheese characterization and authentication. , 2015, , .		0

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109	A Sensor System for Non-Destructive Monitoring of Food Ripening Processes. , 2020, , .		0
110	Title is missing!. , 2020, 15, e0233350.		0
111	Title is missing!. , 2020, 15, e0233350.		0
112	Title is missing!. , 2020, 15, e0233350.		0
113	Title is missing!. , 2020, 15, e0233350.		0
114	Pneumopipe-sense: tailoring breath collection and analysis for mobile points-of-care. , 2022, , .		0