

# Giorgio Pennazza

## List of Publications by Year in descending order

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Version: 2024-02-01

108  
papers

4,847  
citations

147566

31  
h-index

95083

68  
g-index

110  
all docs

110  
docs citations

110  
times ranked

6070  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cloning of the first sn1-DAG lipases points to the spatial and temporal regulation of endocannabinoid signaling in the brain. <i>Journal of Cell Biology</i> , 2003, 163, 463-468.	2.3	923
2	Cannabinoids and the expanded endocannabinoid system in neurological disorders. <i>Nature Reviews Neurology</i> , 2020, 16, 9-29.	4.9	564
3	A European Respiratory Society technical standard: exhaled biomarkers in lung disease. <i>European Respiratory Journal</i> , 2017, 49, 1600965.	3.1	432
4	An investigation on electronic nose diagnosis of lung cancer. <i>Lung Cancer</i> , 2010, 68, 170-176.	0.9	271
5	U-BIOPRED clinical adult asthma clusters linked to a subset of sputum omics. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 1797-1807.	1.5	236
6	Diagnostic Performance of an Electronic Nose, Fractional Exhaled Nitric Oxide, and Lung Function Testing in Asthma. <i>Chest</i> , 2010, 137, 790-796.	0.4	191
7	Olfactory systems for medical applications. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 458-465.	4.0	138
8	Electronic Nose Technology in Respiratory Diseases. <i>Lung</i> , 2017, 195, 157-165.	1.4	125
9	Volatile signature for the early diagnosis of lung cancer. <i>Journal of Breath Research</i> , 2016, 10, 016007.	1.5	108
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.	2.6	104
11	Fish freshness detection by a computer screen photoassisted based gas sensor array. <i>Analytica Chimica Acta</i> , 2007, 582, 320-328.	2.6	93
12	Identification of melanoma with a gas sensor array. <i>Skin Research and Technology</i> , 2008, 14, 226-236.	0.8	87
13	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.	1.6	82
14	IL-17â€“high asthma with features of a psoriasis immunophenotype. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 1198-1213.	1.5	80
15	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.	4.0	77
16	Identification and prospective stability of electronic nose (eNose)â€“derived inflammatory phenotypes in patients with severe asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 1811-1820.e7.	1.5	74
17	Design and Test of a Biosensor-Based Multisensorial System: A Proof of Concept Study. <i>Sensors</i> , 2013, 13, 16625-16640.	2.1	60
18	Electronic nose and GCâ€“MS analysis of volatile compounds in <i>Tuber magnatum</i> Pico: Evaluation of different storage conditions. <i>Food Chemistry</i> , 2013, 136, 668-674.	4.2	57

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19	Exhaled breath analysis by electronic nose in respiratory diseases. <i>Expert Review of Molecular Diagnostics</i> , 2015, 15, 933-956.	1.5	52
20	Chronic Obstructive Pulmonary Disease in the elderly. <i>European Journal of Internal Medicine</i> , 2014, 25, 320-328.	1.0	51
21	Reproducibility and Respiratory Function Correlates of Exhaled Breath Fingerprint in Chronic Obstructive Pulmonary Disease. <i>PLoS ONE</i> , 2012, 7, e45396.	1.1	47
22	Carbon nanotubes modified with porphyrin units for gaseous phase chemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2012, 170, 163-171.	4.0	44
23	Detection and identification of cancers by the electronic nose. <i>Expert Opinion on Medical Diagnostics</i> , 2012, 6, 175-185.	1.6	43
24	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.	2.0	43
25	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.	1.6	41
26	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.	0.6	38
27	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.	0.9	37
28	Breathprinting and Early Diagnosis of Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2018, 13, 883-894.	0.5	36
29	Study of the aroma of artificially flavoured custards by chemical sensor array fingerprinting. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 345-351.	4.0	34
30	Electronic noses calibration procedure in the context of a multicentre medical study. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 555-561.	4.0	34
31	A sensor array and GC study about VOCs and cancer cells. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 483-488.	4.0	31
32	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.	4.0	29
33	Environmental conditions influence the biochemical properties of the fruiting bodies of <i>Tuber magnatum</i> Pico. <i>Scientific Reports</i> , 2018, 8, 7243.	1.6	27
34	Application of a quartz microbalance based gas sensor array for the study of halitosis. <i>Journal of Breath Research</i> , 2008, 2, 017009.	1.5	25
35	Multi-Sensor Approach for the Monitoring of Halitosis Treatment via <i>Lactobacillus brevis</i> (CD2) Containing Lozenges A Randomized, Double-Blind Placebo-Controlled Clinical Trial. <i>Sensors</i> , 2015, 15, 19583-19596.	2.1	24
36	Short time gas delivery pattern improves long-term sensor reproducibility. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 753-759.	4.0	22

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37	Screening of Obstructive Sleep Apnea Syndrome by Electronic-Nose Analysis of Volatile Organic Compounds. <i>Scientific Reports</i> , 2017, 7, 11938.	1.6	22
38	Unmasking of Olive Oil Adulteration Via a Multi-Sensor Platform. <i>Sensors</i> , 2015, 15, 21660-21672.	2.1	21
39	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.	4.0	20
40	An Electronic System for the Contactless Reading of ECG Signals. <i>Sensors</i> , 2017, 17, 2474.	2.1	20
41	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.	0.9	20
42	Sorting of apricots with computer screen photoassisted spectral reflectance analysis and electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2006, 119, 70-77.	4.0	18
43	A Novel Approach for Prostate Cancer Diagnosis using a Gas Sensor Array. <i>Procedia Engineering</i> , 2012, 47, 1113-1116.	1.2	18
44	Narrowing the gap between breathprinting and disease diagnosis, a sensor perspective. <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 270-275.	4.0	18
45	Thickness shear mode resonator sensors for the detection of androstenone in pork fat. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 169-174.	4.0	16
46	Development and Test of a Portable ECG Device with Dry Capacitive Electrodes and Driven Right Leg Circuit. <i>Sensors</i> , 2021, 21, 2777.	2.1	16
47	Chemical sensors clustering with the dynamic moments approach. <i>Sensors and Actuators B: Chemical</i> , 2004, 101, 346-352.	4.0	15
48	An Analog Bootstrapped Biosignal Read-Out Circuit With Common-Mode Impedance Two-Electrode Compensation. <i>IEEE Sensors Journal</i> , 2018, 18, 2861-2869.	2.4	14
49	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.	0.7	13
50	Chemical Sensors for Prostate Cancer Detection Oriented to Non-invasive Approach. <i>Procedia Engineering</i> , 2014, 87, 320-323.	1.2	13
51	Cluster analysis on breath print of newly diagnosed COPD patients: effects of therapy. <i>Journal of Breath Research</i> , 2018, 12, 036022.	1.5	12
52	Advances in the Electronics for Cyclic Voltammetry: the Case of Gas Detection by Using Microfabricated Electrodes. <i>Frontiers in Chemistry</i> , 2018, 6, 327.	1.8	12
53	Non-invasive monitoring of lower-limb ulcers via exudate fingerprinting using BIONOTE. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 68-74.	4.0	11
54	Breathprint analysis by e-nose may refine risk stratification for adverse outcomes in cirrhotic patients. <i>Liver International</i> , 2017, 37, 242-250.	1.9	11

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55	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.	1.1	11
56	Electronic Interface for a Gas Sensor System Based on 32 MHz QCMs: Design and Calibration. <i>IEEE Sensors Journal</i> , 2018, 18, 1419-1426.	2.4	10
57	Animal Olfactory Detection of Disease: Promises and Pitfalls. <i>Clinical Chemistry</i> , 2014, 60, 1473-1479.	1.5	9
58	Investigating a single sensor ability in the characterisation of drinkable water: a pilot study. <i>Water and Environment Journal</i> , 2016, 30, 253-260.	1.0	9
59	Voltammetric analysis for fast and inexpensive diagnosis of urinary tract infection: a diagnostic study. <i>Journal of Translational Medicine</i> , 2018, 16, 17.	1.8	9
60	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.	2.4	8
61	CO2 and O2 Detection by Electric Field Sensors. <i>Sensors</i> , 2020, 20, 668.	2.1	8
62	Design And Development Of An Innovative Sensor System For Non-Invasive Monitoring Of Athletic Performances. , 2019, , .		7
63	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
64	COPD diagnosis by a gas sensor array. <i>Procedia Engineering</i> , 2010, 5, 484-487.	1.2	6
65	A Gas Sensor Device for Oxygen and Carbon Dioxide Detection. <i>Proceedings (mdpi)</i> , 2017, 1, 447.	0.2	6
66	An Open-Source Smart Sensor Architecture for Edge Computing in IoT Applications. <i>Proceedings (mdpi)</i> , 2018, 2, 955.	0.2	6
67	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.	1.2	6
68	DATA ANALYSIS FOR CHEMICAL SENSOR ARRAYS. , 2006, , 147-169.		6
69	Identification of schizophrenic patients by examination of body odor using gas chromatography-mass spectrometry and a cross-selective gas sensor array. <i>Medical Science Monitor</i> , 2005, 11, CR366-75.	0.5	6
70	A Gas Sensor with BLE connectivity for Wearable Applications â€. <i>Proceedings (mdpi)</i> , 2018, 2, 765.	0.2	5
71	A Sensor Platform for Athletesâ€™ Training Supervision: A Proof of Concept Study. <i>Sensors</i> , 2019, 19, 3948.	2.1	5
72	Voltammetric analysis for distinguishing portal hypertension-related from malignancy-related ascites: A proof of concept study. <i>PLoS ONE</i> , 2020, 15, e0233350.	1.1	5

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73	Microbiological Risk Assessment of Ready-to-Eat Leafy Green Salads via a Novel Electrochemical Sensor. <i>Chemosensors</i> , 2022, 10, 134.	1.8	5
74	SWCNTs Modified with Porphyrin Units for Chemical Sensing Applications. <i>Procedia Engineering</i> , 2010, 5, 1043-1046.	1.2	4
75	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
76	A Smart Sensor Architecture for eHealth Applications. , 2018, , .		4
77	Use of voltammetric analysis for fast and objective discrimination of the etiology, evolution, and bacterial infection of lower limb ulcers. <i>Wound Repair and Regeneration</i> , 2019, 27, 288-291.	1.5	4
78	Design of an Innovative Methodology for Cerebrospinal Fluid Analysis: Preliminary Results. <i>Sensors</i> , 2021, 21, 3767.	2.1	4
79	Single beat ECG-based Identification System: development and robustness test in different working conditions. , 2021, , .		4
80	Exhaled Breath Analysis for the Monitoring of Elderly COPD Patients Health-state. , 2011, , .		3
81	An Investigation about the origin of the lung cancer signalling VOCs in breath. , 2014, , .		3
82	The Presence of the Fibonacci Numbers in Passive Ladder Networks: The Case of Forbidden Bands [Historical Corner]. <i>IEEE Antennas and Propagation Magazine</i> , 2014, 56, 275-287.	1.2	3
83	Resonant Directly Coupled Inductorsâ€“Capacitors Ladder Network Shows a New, Interesting Property Useful for Application in the Sensor Field, Down to Micrometric Dimensions. <i>Micromachines</i> , 2018, 9, 343.	1.4	3
84	Characterization of inflammatory profile by breath analysis in chronic coronary syndromes. <i>Journal of Cardiovascular Medicine</i> , 2020, 21, 675-681.	0.6	3
85	Integration of voltammetric analysis, protein electrophoresis and pH measurement for diagnosis of pleural effusions: a non-conventional diagnostic approach. <i>Scientific Reports</i> , 2020, 10, 15222.	1.6	3
86	A Multi-Sensor System for Sea Water Iodide Monitoring and Seafood Quality Assurance: Proof-of-Concept Study. <i>Sensors</i> , 2021, 21, 4464.	2.1	3
87	A Non Invasive Sensor System for the Screening of Obstructive Sleep Apnea Syndrome. <i>Proceedings (mdpi)</i> , 2017, 1, 426.	0.2	2
88	Introduction. <i>Breathprinting: What, Why, How.</i> , 2019, , 1-11.		2
89	Modular QMB sensors array for E-health applications. , 2020, , .		2
90	BIONOTE as an Innovative Biosensor for Measuring Endocannabinoid Levels. <i>Sensors</i> , 2021, 21, 489.	2.1	2

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91	Biosensors for Detection and Monitoring of Joint Infections. Chemosensors, 2021, 9, 256.	1.8	2
92	A Novel Bio-inspired Digital Signal Processing Method for Chemical Sensor Arrays. Studies in Computational Intelligence, 2009, , 109-120.	0.7	2
93	Proof of Concept Study of an Electrochemical Sensor for Inland Water Monitoring with a Network Approach. Remote Sensing, 2021, 13, 4026.	1.8	2
94	Chemical Sensor for Haemodialysis Application. Procedia Engineering, 2016, 168, 590-593.	1.2	1
95	A Sensor System for the Monitoring of Production Processes of Low FODMAP Food. Proceedings (mdpi), 2018, 2, 761.	0.2	1
96	Characterization of innovative sensors for volatile organic compounds trace compounds in biogas. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2321.	0.8	1
97	Heart Rate Analysis through Smartphone Camera. , 2021, , .		1
98	Ultrasound Based Sensor for Fat Detection in Fresh Milk. Lecture Notes in Electrical Engineering, 2014, , 499-502.	0.3	1
99	Monitoring the Halitosis with an Electronic Nose. , 2011, , .		0
100	Chemical Sensor Approach to Volatile Phenotyping of Respiratory Diseases. Procedia Engineering, 2014, 87, 664-667.	1.2	0
101	Innovative IAQ Organic Sensor. Procedia Engineering, 2014, 87, 1326-1329.	1.2	0
102	A Sensor System for Non-Destructive Monitoring of Food Ripening Processes. , 2020, , .		0
103	CLASSIFICATION OF COMPLEX MIXTURES WITH AN ELECTRONIC NOSE: THE CASE OF PHARMACEUTICAL PRODUCTS. , 2004, , .		0
104	Title is missing!. , 2020, 15, e0233350.		0
105	Title is missing!. , 2020, 15, e0233350.		0
106	Title is missing!. , 2020, 15, e0233350.		0
107	Title is missing!. , 2020, 15, e0233350.		0
108	Pneumopipe-sense: tailoring breath collection and analysis for mobile points-of-care. , 2022, , .		0