Saverio De Vito

List of Publications by Year
in descending order

83	1,773	516710 16	289244 40
papers	citations	h-index	g-index

98	98	98	1773
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hyper resoluted Air Quality maps in urban environment with crowdsensed data from intelligent low cost sensors. , 2022, , .		3
2	Global calibration models match ad-hoc calibrations field performances in low cost particulate matter sensors. , 2022, , .		1
3	Influence of Concept Drift on Metrological Performance of Low-Cost NO₂ Sensors. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	7
4	Extended Non-destructive Testing for Surface Quality Assessment. , 2021, , 119-222.		3
5	Artificial intelligence for distributed smart systems. Pattern Recognition Letters, 2021, 142, 48-50.	4.2	13
6	A Wearable Low-Power Sensing Platform for Environmental and Health Monitoring: The Convergence Project. Sensors, 2021, 21, 1802.	3.8	12
7	Non-contact CFRP pre-bond quality NDT by Ion Mobility Spectrometer: Preliminary Results. , 2021, , .		0
8	Crowdsensing IoT Architecture for Pervasive Air Quality and Exposome Monitoring: Design, Development, Calibration, and Long-Term Validation. Sensors, 2021, 21, 5219.	3.8	14
9	A State-of-Art-Review on Machine-Learning Based Methods for PV. Applied Sciences (Switzerland), 2021, 11, 7550.	2.5	47
10	Site Suitability Analysis for Low Cost Sensor Networks for Urban Spatially Dense Air Pollution Monitoring. Atmosphere, 2020, 11, 1215.	2.3	11
11	A Review of Low-Cost Particulate Matter Sensors from the Developersâ€™ Perspectives. Sensors, 2020, 20, 6819.	3.8	86
12	Adaptive machine learning strategies for network calibration of IoT smart air quality monitoring devices. Pattern Recognition Letters, 2020, 136, 264-271.	4.2	35
13	On the robustness of field calibration for smart air quality monitors. Sensors and Actuators B: Chemical, 2020, 310, 127869.	7.8	52
14	High Resolution Air Quality Monitoring with IoT Intelligent Multisensor devices during COVID-19 Pandemic Phase 2 in Italy. , 2020, , .		4
15	Mid Term Field Validation of the MONICA Air Quality Multisensor. Lecture Notes in Electrical Engineering, 2020, , 49-55.	0.4	0
16	Optimal Field Calibration of Multiple IoT Low Cost Air Quality Monitors: Setup and Results. Lecture Notes in Computer Science, 2020, , 700-708.	1.3	1
17	An UAV Mounted Intelligent Monitoring System for Impromptu Air Quality Assessments. Lecture Notes in Electrical Engineering, 2019, , 497-506.	0.4	2
18	A Networked Wearable Device for Chemical Multisensing. Lecture Notes in Electrical Engineering, 2019, , 17-24.	0.4	1

#	Article	IF	Citations
19	Calibrating chemical multisensory devices for real world applications: An in-depth comparison of quantitative machine learning approaches. Sensors and Actuators B: Chemical, 2018, 255, 1191-1210.	7.8	87
20	Enabling Citizen Science with A Crowdfunded and Field Validated Smart Air Quality Monitor. Proceedings (mdpi), 2018, 2, 932.	0.2	2
21	Testing an Electronic Nose for Pre-Bond NDT in Realistic CFRP Parts Assembly and Repair. , 2018, , .		0
22	UAV Intelligent Chemical Multisensor Payload for Networked and Impromptu Gas Monitoring Tasks. , 2018, , .		4
23	Assessment of air quality microsensors versus reference methods: The EuNetAir Joint Exercise â€“ Part II. Atmospheric Environment, 2018, 193, 127-142.	4.1	72
24	Stochastic Comparison of Machine Learning Approaches to Calibration of Mobile Air Quality Monitors. Lecture Notes in Electrical Engineering, 2018, , 294-302.	0.4	4
25	Assessing the Relocation Robustness of on Field Calibrations for Air Quality Monitoring Devices. Lecture Notes in Electrical Engineering, 2018, , 303-312.	0.4	3
26	A Distributed Sensor Network for Waste Water Management Plant Protection. Lecture Notes in Electrical Engineering, 2018, , 303-314.	0.4	4
27	A Sensor Fusion Method Applied to Networked Rain Gauges for Defining Statistically Based Rainfall Thresholds for Landslide Triggering. Lecture Notes in Electrical Engineering, 2018, , 213-222.	0.4	0
28	Electronic Nose Detection of Hydraulic-Oil Fingerprint Contamination in Relevant Aircraft Maintenance Scenarios. Lecture Notes in Electrical Engineering, 2018, , 243-255.	0.4	0
29	Evaluation and design of a rain gauge network using a statistical optimization method in a severe hydro-geological hazard prone area. AIP Conference Proceedings, 2017, , .	0.4	5
30	Is on field calibration strategy robust to relocation?. , 2017, , .		3
31	Hydraulic oil fingerprint contamination detection for aircraft CFRP maintenance by electronic nose. , 2017, , .		2
32	A crowdfunded personal air quality monitor infrastructure for active life applications. , 2017, , .		2
33	Chili Pepper Scent: Study and Recognition with Chemiresistors Array. Proceedings (mdpi), 2017, 1, .	0.2	0
34	A Dedicated Gas Analysis System Based on Resonant MEMS Sensors for Detection of Illicit Substances in Cargo Containers. Proceedings (mdpi), 2017, 1, 601.	0.2	0
35	Cooperative Air Quality Sensing with Crowdfunded Mobile Chemical Multisensor Devices. Proceedings (mdpi), 2017, 1, 602.	0.2	0
36	Electronic Noses for Composites Surface Contamination Detection in Aerospace Industry. Sensors, 2017, 17, 754.	3.8	9

#	Article	IF	Citations
37	Computational Intelligence for Smart Air Quality Monitors Calibration. Lecture Notes in Computer Science, 2017, , 443-454.	1.3	9
38	Online Anomaly Detection on Rain Gauge Networks for Robust Alerting Services to Citizens at Risk from Flooding. Lecture Notes in Computer Science, 2017, , 427-442.	1.3	0
39	Dynamic neural network architectures for on field stochastic calibration of indicative low cost air quality sensing systems. Sensors and Actuators B: Chemical, 2016, 231, 701-713.	7.8	90
40	Assessment of air quality microsensors versus reference methods: The EuNetAir joint exercise. Atmospheric Environment, 2016, 147, 246-263.	4.1	182
41	Detection and quantification of composite surface contaminants with an e-nose for fast and reliable pre-bond quality assessment of aircraft components. Sensors and Actuators B: Chemical, 2016, 222, 1264-1273.	7.8	7
42	An Holistic Approach to e-Nose Response Patterns Analysisâ€"An Application to Nondestructive Tests. IEEE Sensors Journal, 2016, 16, 2617-2626.	4.7	8
43	Applying Numerical Models and Optimized Sensor Networks for Drinking Water Quality Control. Procedia Engineering, 2015, 119, 918-926.	1.2	3
44	Optimal Sensors Placement for Flood Forecasting Modelling. Procedia Engineering, 2015, 119, 927-936.	1.2	11
45	An integrated infrastructure for distributed waste water quality monitoring and decision support. , 2015, , .		4
46	Predictive models for building's energy consumption: An Artificial Neural Network (ANN) approach. , 2015, , .		26
47	Auxiliary smart gas sensor prototype plugged in a rfid active tag for ripening evaluation. , 2015, , .		3
48	Electronic Nose as an NDT Tool for Aerospace Industry. Physics Procedia, 2015, 62, 23-28.	1.2	5
49	Dynamic multivariate regression for on-field calibration of high speed air quality chemical multi-sensor systems. , 2015, , .		8
50	An adaptive immune based anomaly detection algorithm for smart WSN deployments. , 2015, , .		7
51	SNIFFI. , 2015, , .		2
52	A SWE Architecture for Real Time Water Quality Monitoring Capabilities Within Smart Drinking Water and Wastewater Network Solutions. Lecture Notes in Computer Science, 2015, , 686-697.	1.3	4
53	Advanced Pattern Recognition Techniques for Fast and Reliable E-nose Response Analysis in NDTs Scenarios. Lecture Notes in Electrical Engineering, 2015, , 235-240.	0.4	2
54	An App Based Air Quality Social Sensing System Built on Open Source Hw/Sw Tools. Lecture Notes in Electrical Engineering, 2015, , 309-313.	0.4	1

#	Article	IF	Citations
55	A new NARX based Semi Supervised Learning algorithm for pollutant estimation. , 2014, , .		2
56	Combining Real Time Classifiers for Fast and Reliable Electronic Nose Response Analysis for Aerospace NDTs. Procedia Engineering, 2014, 87, 859-862.	1.2	1
57	A maker friendly mobile and social sensing approach to urban air quality monitoring. , 2014, , .		21
58	Graphene-based Schottky Device Detecting NH3 at ppm level in Environmental Conditions. Procedia Engineering, 2014, 87, 232-235.	1.2	7
59	Simulation of Chlorine Decay in Drinking Water Distribution Systems: Case Study of Santa Sofia Network (Southern Italy). Lecture Notes in Electrical Engineering, 2014, , 467-470.	0.4	5
60	Artificial olfaction tool and techniques for safety controls in aerospace assembly and maintenance. , 2014, , .		0
61	RFID tag for vegetable ripening evaluation using an auxiliary smart gas sensor. , 2014, , .		6
62	Use of Kinetic Models for Predicting DBP Formation in Water Supply Systems. Lecture Notes in Electrical Engineering, 2014, , 471-474.	0.4	3
63	An Ontology Framework for Flooding Forecasting. Lecture Notes in Computer Science, 2014, , 417-428.	1.3	16
64	A Distributed Sensing System for Monitoring Energy Consumption and Air Quality in Buildings. Sensor Letters, 2014, 12, 1085-1092.	0.4	0
65	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
66	A novel approach for detecting alerts in urban pollution monitoring with low cost sensors. , 2013, , .		1
67	Semi-Supervised Learning Techniques in Artificial Olfaction: A Novel Approach to Classification Problems and Drift Counteraction. IEEE Sensors Journal, 2012, 12, 3215-3224.	4.7	91
68	Cooperative 3D Air Quality Assessment with Wireless Chemical Sensing Networks. Procedia Engineering, 2011, 25, 84-87.	1.2	21
69	Wireless Sensor Networks for Distributed Chemical Sensing: Addressing Power Consumption Limits With On-Board Intelligence. IEEE Sensors Journal, 2011, 11, 947-955.	4.7	44
70	Pursing Contamination Detection on Aircraft CFRP Surfaces By Artificial Olfaction Techniques. , 2011, , .		1
71	Innovative Sensor Techniques for Aircraft Maintenance Applications. Lecture Notes in Electrical Engineering, 2011, , 383-386.	0.4	0
72	Artificial immune systems for Artificial Olfaction data analysis: Comparison between AIRS and ANN models. , 2010, , .		0

#	Article	IF	Citations
73	Power Savvy Wireless E-Nose Network using In-Network Intelligence. , 2009, , .		2
74	CO, NO2 and NOx urban pollution monitoring with on-field calibrated electronic nose by automatic bayesian regularization. Sensors and Actuators B: Chemical, 2009, 143, 182-191.	7.8	156
75	On field calibration of an electronic nose for benzene estimation in an urban pollution monitoring scenario. Sensors and Actuators B: Chemical, 2008, 129, 750-757.	7.8	372
76	TinyNose: Developing a wireless e-nose platform for distributed air quality monitoring applications. , 2008, , .		9
77	Performance analysis of e-nose on-field calibration for city air pollution quantitative monitoring. , 2008, , .		1
78	ENABLING DISTRIBUTED VOC SENSING APPLICATIONS: TOWARD TINYNOSE, A POLYMERIC WIRELESS E-NOSE. , 2008, , .		2
79	TERPENES DETECTION USING AN ARRAY BASED ON POLYMER-CARBON BLACK COMPOSITES SENSORS. , 2008, , .		0
80	Towards an All Polymeric Electronic Nose: Device Fabrication and Characterization, Electronic Control, Data Analysis. , 2007, , .		1
81	Gas concentration estimation in ternary mixtures with room temperature operating sensor array using tapped delay architectures. Sensors and Actuators B: Chemical, 2007, 124, 309-316.	7.8	52
82	Analysis of volcanic gases by means of electronic nose. Sensors and Actuators B: Chemical, 2007, 127, 36-41.	7.8	10
83	Scintillation crystal readout by multi-APD for event localization. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 180-184.	1.6	3