

Saverio De Vito

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

1,773
citations

516710

16
h-index

289244

40
g-index

98
all docs

98
docs citations

98
times ranked

1773
citing authors

#	ARTICLE	IF	CITATIONS
1	On field calibration of an electronic nose for benzene estimation in an urban pollution monitoring scenario. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 750-757.	7.8	372
2	Assessment of air quality microsensors versus reference methods: The EuNetAir joint exercise. <i>Atmospheric Environment</i> , 2016, 147, 246-263.	4.1	182
3	CO, NO ₂ and NO _x urban pollution monitoring with on-field calibrated electronic nose by automatic bayesian regularization. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 182-191.	7.8	156
4	Semi-Supervised Learning Techniques in Artificial Olfaction: A Novel Approach to Classification Problems and Drift Counteraction. <i>IEEE Sensors Journal</i> , 2012, 12, 3215-3224.	4.7	91
5	Dynamic neural network architectures for on field stochastic calibration of indicative low cost air quality sensing systems. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 701-713.	7.8	90
6	Calibrating chemical multisensory devices for real world applications: An in-depth comparison of quantitative machine learning approaches. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1191-1210.	7.8	87
7	A Review of Low-Cost Particulate Matter Sensors from the Developers' Perspectives. <i>Sensors</i> , 2020, 20, 6819.	3.8	86
8	Assessment of air quality microsensors versus reference methods: The EuNetAir Joint Exercise " Part II. <i>Atmospheric Environment</i> , 2018, 193, 127-142.	4.1	72
9	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
10	Gas concentration estimation in ternary mixtures with room temperature operating sensor array using tapped delay architectures. <i>Sensors and Actuators B: Chemical</i> , 2007, 124, 309-316.	7.8	52
11	On the robustness of field calibration for smart air quality monitors. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127869.	7.8	52
12	A State-of-Art-Review on Machine-Learning Based Methods for PV. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7550.	2.5	47
13	Wireless Sensor Networks for Distributed Chemical Sensing: Addressing Power Consumption Limits With On-Board Intelligence. <i>IEEE Sensors Journal</i> , 2011, 11, 947-955.	4.7	44
14	Adaptive machine learning strategies for network calibration of IoT smart air quality monitoring devices. <i>Pattern Recognition Letters</i> , 2020, 136, 264-271.	4.2	35
15	Predictive models for building's energy consumption: An Artificial Neural Network (ANN) approach. , 2015, , .		26
16	Cooperative 3D Air Quality Assessment with Wireless Chemical Sensing Networks. <i>Procedia Engineering</i> , 2011, 25, 84-87.	1.2	21
17	A maker friendly mobile and social sensing approach to urban air quality monitoring. , 2014, , .		21
18	An Ontology Framework for Flooding Forecasting. <i>Lecture Notes in Computer Science</i> , 2014, , 417-428.	1.3	16

#	ARTICLE	IF	CITATIONS
19	Crowdsensing IoT Architecture for Pervasive Air Quality and Exposome Monitoring: Design, Development, Calibration, and Long-Term Validation. <i>Sensors</i> , 2021, 21, 5219.	3.8	14
20	Artificial intelligence for distributed smart systems. <i>Pattern Recognition Letters</i> , 2021, 142, 48-50.	4.2	13
21	A Wearable Low-Power Sensing Platform for Environmental and Health Monitoring: The Convergence Project. <i>Sensors</i> , 2021, 21, 1802.	3.8	12
22	Optimal Sensors Placement for Flood Forecasting Modelling. <i>Procedia Engineering</i> , 2015, 119, 927-936.	1.2	11
23	Site Suitability Analysis for Low Cost Sensor Networks for Urban Spatially Dense Air Pollution Monitoring. <i>Atmosphere</i> , 2020, 11, 1215.	2.3	11
24	Analysis of volcanic gases by means of electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 36-41.	7.8	10
25	TinyNose: Developing a wireless e-nose platform for distributed air quality monitoring applications. , 2008, , .		9
26	Electronic Noses for Composites Surface Contamination Detection in Aerospace Industry. <i>Sensors</i> , 2017, 17, 754.	3.8	9
27	Computational Intelligence for Smart Air Quality Monitors Calibration. <i>Lecture Notes in Computer Science</i> , 2017, , 443-454.	1.3	9
28	Dynamic multivariate regression for on-field calibration of high speed air quality chemical multi-sensor systems. , 2015, , .		8
29	An Holistic Approach to e-Nose Response Patterns Analysis—An Application to Nondestructive Tests. <i>IEEE Sensors Journal</i> , 2016, 16, 2617-2626.	4.7	8
30	Graphene-based Schottky Device Detecting NH ₃ at ppm level in Environmental Conditions. <i>Procedia Engineering</i> , 2014, 87, 232-235.	1.2	7
31	An adaptive immune based anomaly detection algorithm for smart WSN deployments. , 2015, , .		7
32	Detection and quantification of composite surface contaminants with an e-nose for fast and reliable pre-bond quality assessment of aircraft components. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 1264-1273.	7.8	7
33	Influence of Concept Drift on Metrological Performance of Low-Cost NO ₂ Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-11.	4.7	7
34	RFID tag for vegetable ripening evaluation using an auxiliary smart gas sensor. , 2014, , .		6
35	Simulation of Chlorine Decay in Drinking Water Distribution Systems: Case Study of Santa Sofia Network (Southern Italy). <i>Lecture Notes in Electrical Engineering</i> , 2014, , 467-470.	0.4	5
36	Electronic Nose as an NDT Tool for Aerospace Industry. <i>Physics Procedia</i> , 2015, 62, 23-28.	1.2	5

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37	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
38	An integrated infrastructure for distributed waste water quality monitoring and decision support. , 2015, , .		4
39	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
40	UAV Intelligent Chemical Multisensor Payload for Networked and Impromptu Gas Monitoring Tasks. , 2018, , .		4
41	Stochastic Comparison of Machine Learning Approaches to Calibration of Mobile Air Quality Monitors. Lecture Notes in Electrical Engineering, 2018, , 294-302.	0.4	4
42	High Resolution Air Quality Monitoring with IoT Intelligent Multisensor devices during COVID-19 Pandemic Phase 2 in Italy. , 2020, , .		4
43	A Distributed Sensor Network for Waste Water Management Plant Protection. Lecture Notes in Electrical Engineering, 2018, , 303-314.	0.4	4
44	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
45	Applying Numerical Models and Optimized Sensor Networks for Drinking Water Quality Control. Procedia Engineering, 2015, 119, 918-926.	1.2	3
46	Auxiliary smart gas sensor prototype plugged in a rfid active tag for ripening evaluation. , 2015, , .		3
47	Is on field calibration strategy robust to relocation?. , 2017, , .		3
48	Extended Non-destructive Testing for Surface Quality Assessment. , 2021, , 119-222.		3
49	Use of Kinetic Models for Predicting DBP Formation in Water Supply Systems. Lecture Notes in Electrical Engineering, 2014, , 471-474.	0.4	3
50	Assessing the Relocation Robustness of on Field Calibrations for Air Quality Monitoring Devices. Lecture Notes in Electrical Engineering, 2018, , 303-312.	0.4	3
51	Hyper resolved Air Quality maps in urban environment with crowdsensed data from intelligent low cost sensors. , 2022, , .		3
52	Power Savvy Wireless E-Nose Network using In-Network Intelligence. , 2009, , .		2
53	A new NARX based Semi Supervised Learning algorithm for pollutant estimation. , 2014, , .		2
54	SNIFFI. , 2015, , .		2

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55	Hydraulic oil fingerprint contamination detection for aircraft CFRP maintenance by electronic nose. , 2017, , .		2
56	A crowd-funded personal air quality monitor infrastructure for active life applications. , 2017, , .		2
57	Enabling Citizen Science with A Crowd-funded and Field Validated Smart Air Quality Monitor. Proceedings (mdpi), 2018, 2, 932.	0.2	2
58	An UAV Mounted Intelligent Monitoring System for Impromptu Air Quality Assessments. Lecture Notes in Electrical Engineering, 2019, , 497-506.	0.4	2
59	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
60	ENABLING DISTRIBUTED VOC SENSING APPLICATIONS: TOWARD TINYNOSE, A POLYMERIC WIRELESS E-NOSE. , 2008, , .		2
61	Towards an All Polymeric Electronic Nose: Device Fabrication and Characterization, Electronic Control, Data Analysis. , 2007, , .		1
62	Performance analysis of e-nose on-field calibration for city air pollution quantitative monitoring. , 2008, , .		1
63	Pursing Contamination Detection on Aircraft CFRP Surfaces By Artificial Olfaction Techniques. , 2011, , .		1
64	A novel approach for detecting alerts in urban pollution monitoring with low cost sensors. , 2013, , .		1
65	Combining Real Time Classifiers for Fast and Reliable Electronic Nose Response Analysis for Aerospace NDTs. Procedia Engineering, 2014, 87, 859-862.	1.2	1
66	A Networked Wearable Device for Chemical Multisensing. Lecture Notes in Electrical Engineering, 2019, , 17-24.	0.4	1
67	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
68	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
69	Global calibration models match ad-hoc calibrations field performances in low cost particulate matter sensors. , 2022, , .		1
70	Artificial immune systems for Artificial Olfaction data analysis: Comparison between AIRS and ANN models. , 2010, , .		0
71	Artificial olfaction tool and techniques for safety controls in aerospace assembly and maintenance. , 2014, , .		0
72	Chili Pepper Scent: Study and Recognition with Chemiresistors Array. Proceedings (mdpi), 2017, 1, .	0.2	0

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73	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
74	Cooperative Air Quality Sensing with Crowdfunded Mobile Chemical Multisensor Devices. Proceedings (mdpi), 2017, 1, 602.	0.2	0
75	Testing an Electronic Nose for Pre-Bond NDT in Realistic CFRP Parts Assembly and Repair. , 2018, , .		0
76	Non-contact CFRP pre-bond quality NDT by Ion Mobility Spectrometer: Preliminary Results. , 2021, , .		0
77	TERPENES DETECTION USING AN ARRAY BASED ON POLYMER-CARBON BLACK COMPOSITES SENSORS. , 2008, , .		0
78	Innovative Sensor Techniques for Aircraft Maintenance Applications. Lecture Notes in Electrical Engineering, 2011, , 383-386.	0.4	0
79	A Distributed Sensing System for Monitoring Energy Consumption and Air Quality in Buildings. Sensor Letters, 2014, 12, 1085-1092.	0.4	0
80	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
81	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
82	Electronic Nose Detection of Hydraulic-Oil Fingerprint Contamination in Relevant Aircraft Maintenance Scenarios. Lecture Notes in Electrical Engineering, 2018, , 243-255.	0.4	0
83	Mid Term Field Validation of the MONICA Air Quality Multisensor. Lecture Notes in Electrical Engineering, 2020, , 49-55.	0.4	0