Ettore Massera

List of Publications by Year in Descending Order

63 papers	548 citations	14 h-index	21 g-index
67 ext. papers	677 ext. citations	2.2 avg, IF	3.56 L-index

#	Paper	IF	Citations
63	Study of a Low Cost and Wearable Gas Sensor for Safety of Workers and Workplaces. *Lecture Notes in Electrical Engineering*, **2023**, 153-159	0.2	
62	A Wearable Low-Power Sensing Platform for Environmental and Health Monitoring: The Convergence Project. *Sensors*, **2021**, 21,	3.8	6
61	Extended Non-destructive Testing for Surface Quality Assessment **2021**, 119-222		0
60	Crowdsensing IoT Architecture for Pervasive Air Quality and Exposome Monitoring: Design, Development, Calibration, and Long-Term Validation. *Sensors*, **2021**, 21,	3.8	3
59	Conductometric Gas Sensors **2021**,		1
58	A Review of Low-Cost Particulate Matter Sensors from the DevelopersVPerspectives. *Sensors*, **2020**, 20,	3.8	30
57	. *IEEE Journal of Radio Frequency Identification*, **2020**, 4, 256-264	2.4	2
56	Adaptive machine learning strategies for network calibration of IoT smart air quality monitoring devices. *Pattern Recognition Letters*, **2020**, 136, 264-271	4.7	18
55	An End to End Indoor Air Monitoring System Based on Machine Learning and SENSIPLUS Platform. *IEEE Access*, **2020**, 8, 72204-72215	3.5	10
54	Effect of Humidity on the Hydrogen Sensing in Graphene Based Devices. *Lecture Notes in Electrical Engineering*, **2019**, 11-16	0.2	0
53	A Networked Wearable Device for Chemical Multisensing. *Lecture Notes in Electrical Engineering*, **2019**, 17-24	0.2	1
52	Improvement of NO2 Detection: Graphene Decorated With ZnO Nanoparticles. *IEEE Sensors Journal* , **2019**, 19, 8751-8757	4	5
51	Graphene-like layers as promising chemiresistive sensing material for detection of alcohols at low concentration. *Journal of Applied Physics*, **2018**, 123, 024503	2.5	19
50	Effective Tuning of Silver Decorated Graphene Sensing Properties by Adjusting the Ag NPs Coverage Density. *Lecture Notes in Electrical Engineering*, **2018**, 82-89	0.2	0
49	Graphene Decoration for Gas Detection. *Lecture Notes in Electrical Engineering*, **2018**, 35-40	0.2	2
48	Enabling Citizen Science with A Crowdfunded and Field Validated Smart Air Quality Monitor. *Proceedings (mdpi)*, **2018**, 2, 932	0.3	2
47	Effects of graphene defects on gas sensing properties towards NO detection. *Nanoscale*, **2017**, 9, 6085-6093	7.7	54

46	CVD transfer-free graphene for sensing applications. *Beilstein Journal of Nanotechnology*, **2017**, 8, 1015-1022	3	6
45	Effect of palladium nanoparticle functionalization on the hydrogen gas sensing of graphene based chemi-resistive devices. *Sensors and Actuators B: Chemical*, **2017**, 253, 1163-1169	8.5	17
44	Fully eco-friendly H 2 sensing device based on Pd-decorated graphene. *Sensors and Actuators B: Chemical*, **2017**, 239, 1144-1152	8.5	25
43	Low Temperature CVD Grown Graphene for Highly Selective Gas Sensors Working under Ambient Conditions. *Proceedings (mdpi)*, **2017**, 1, 445	0.3	5
42	Chili Pepper Scent: Study and Recognition with Chemiresistors Array. *Proceedings (mdpi)*, **2017**, 1, 597	0.3	
41	Cooperative Air Quality Sensing with Crowdfunded Mobile Chemical Multisensor Devices. *Proceedings (mdpi)*, **2017**, 1, 602	0.3	
40	Electronic Noses for Composites Surface Contamination Detection in Aerospace Industry. *Sensors*, **2017**, 17,	3.8	5
39	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	8.5	4
38	An Holistic Approach to e-Nose Response Patterns Analysis: An Application to Nondestructive Tests. *IEEE Sensors Journal*, **2016**, 16, 2617-2626	4	6
37	A study on the physicochemical properties of hydroalcoholic solutions to improve the direct exfoliation of natural graphite down to few-layers graphene. *Materials Research Express*, **2015**, 2, 035601	1.7	27
36	Vocs Sensors Based on Polyaniline/Graphene-Nanosheets Bilayer. *Lecture Notes in Electrical Engineering*, **2015**, 197-201	0.2	2
35	Tinynose, an Auxiliary Smart Gas Sensor for RFID Tag in Vegetables Ripening Monitoring During Refrigerated Cargo Transport. *Lecture Notes in Electrical Engineering*, **2015**, 217-221	0.2	1
34	Auxiliary smart gas sensor prototype plugged in a rfid active tag for ripening evaluation **2015**,		2
33	Electronic Nose as an NDT Tool for Aerospace Industry. *Physics Procedia*, **2015**, 62, 23-28		3
32	Cross interference effects between water and NH3 on a sensor based on graphene/silicon Schottky diode **2015**,		2
31	Inkjet printed graphene-based chemi-resistors for gas detection in environmental conditions **2015**,		6
30	Easy Recovery Method for Graphene-Based Chemi-Resistors. *Lecture Notes in Electrical Engineering*, **2015**, 203-206	0.2	0
29	RFID tag for vegetable ripening evaluation using an auxiliary smart gas sensor **2014**,		6

28	Combining Real Time Classifiers for Fast and Reliable Electronic Nose Response Analysis for Aerospace NDTs. *Procedia Engineering*, **2014**, 87, 859-862		1
27	A maker friendly mobile and social sensing approach to urban air quality monitoring **2014**,		16
26	Graphene-based Schottky Device Detecting NH3 at ppm level in Environmental Conditions. *Procedia Engineering*, **2014**, 87, 232-235		5
25	Assembly of Zinc Oxide Nanostructures by Dielectrophoresis for Sensing Devices. *Lecture Notes in Electrical Engineering*, **2014**, 261-264	0.2	
24	Reproducibility of the Performances of Graphene-Based Gas-Sensitive Chemiresistors. *Lecture Notes in Electrical Engineering*, **2014**, 139-142	0.2	2
23	Exfoliation of Graphite and Dispersion of Graphene in Solutions of Low-Boiling-Point Solvents for Use in Gas Sensors. *Lecture Notes in Electrical Engineering*, **2014**, 143-147	0.2	3
22	E-Nose as a Potential Quality Assurance Technology for the Detection of Surface Contamination by Aeronautic Fluids. *Lecture Notes in Electrical Engineering*, **2014**, 443-446	0.2	1
21	The effect of solvent on the morphology of ZnO nanostructure assembly by dielectrophoresis and its device applications. *Electrophoresis*, **2012**, 33, 2086-93	3.6	2
20	Developing Artificial Olfaction Techniques for Contamination Detection on Aircraft CFRP Surfaces: The Encomb Project. *Lecture Notes in Electrical Engineering*, **2012**, 163-166	0.2	1
19	Sub-PPM Nitrogen Dioxide Conductometric Response at Room Temperature by Graphene Flakes Based Layer. *Lecture Notes in Electrical Engineering*, **2012**, 121-125	0.2	2
18	Cooperative 3D Air Quality Assessment with Wireless Chemical Sensing Networks. *Procedia Engineering*, **2011**, 25, 84-87		18
17	Nanopatterned platinum electrodes by focused ion beam in single palladium nanowire based devices. *Microelectronic Engineering*, **2011**, 88, 3261-3266	2.5	6
16	Wireless Sensor Networks for Distributed Chemical Sensing: Addressing Power Consumption Limits With On-Board Intelligence. *IEEE Sensors Journal*, **2011**, 11, 947-955	4	37
15	Development of an E-Nose Solution for Landfill and Industrial Areas Emission Monitoring: Selection of an Ad-Hoc Sensor Array. *Lecture Notes in Electrical Engineering*, **2011**, 373-377	0.2	3
14	Single Palladium Nanowire: Morphology and its Correlation with Sensing Mechanism. *Lecture Notes in Electrical Engineering*, **2011**, 181-185	0.2	
13	A Simple Optical Model for the Swelling Evaluation in Polymer Nanocomposites. *Journal of Sensors*, **2009**, 2009, 1-6	2	7
12	Single palladium nanowire growth in place assisted by dielectrophoresis and focused ion beam. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 2931-6	1.3	6
11	Power Savvy Wireless E-Nose Network using In-Network Intelligence **2009**,		2

List of Publications

10	Structural and optical properties of silicon quantum dots in silicon nitride grown in situ by PECVD using different gas precursors. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2009**, 159-160, 74-76	3.1	8
9	PECVD in-situ growth of silicon quantum dots in silicon nitride from silane and nitrogen. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2009**, 159-160, 77-79	3.1	24
8	A Study of the Swelling Properties of Polymer Nanocomposites through Electrical and Optical Characterization. *Macromolecular Symposia*, **2009**, 286, 203-209	0.8	3
7	Palladium Nanowires Assembly by Dielectrophoresis Investigated as Hydrogen Sensors. *IEEE Nanotechnology Magazine*, **2008**, 7, 776-781	2.6	19
6	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	8.5	41
5	Filled Polysilsesquioxanes: A New Approach to Chemical Sensing. *Macromolecular Symposia*, **2007**, 247, 350-356	0.8	7
4	Porous silicon-based optical biochips. *Journal of Optics*, **2006**, 8, S540-S544		44
3	Silicon infrared diffuser for wireless communication. *Applied Optics*, **2006**, 45, 6746-9	1.7	2
2	Fabrication and Characterization of Sensitive Polymer (Nano)Composites. *Macromolecular Symposia* , **2005**, 228, 139-146	0.8	1
1	Optical Reorientation in Dye-Doped Nematics. *Molecular Crystals and Liquid Crystals*, **1997**, 302, 111-120		6