Ettore Massera

List of Publications by Year
in descending order

57 papers	793 citations	566801 15 h-index	552369 26 g-index
67 all docs	67 docs citations	67 times ranked	1038 citing authors

#	Article	IF	Citations
1	A Review of Low-Cost Particulate Matter Sensors from the Developers' Perspectives. Sensors, 2020, 20, 6819.	2.1	86
2	Effects of graphene defects on gas sensing properties towards NO_2 detection. Nanoscale, 2017, 9, 6085-6093.	2.8	78
3	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.	4.0	52
4	Porous silicon-based optical biochips. Journal of Optics, 2006, 8, S540-S544.	1.5	49
5	Wireless Sensor Networks for Distributed Chemical Sensing: Addressing Power Consumption Limits With On-Board Intelligence. IEEE Sensors Journal, 2011, 11, 947-955.	2.4	44
6	Adaptive machine learning strategies for network calibration of IoT smart air quality monitoring devices. Pattern Recognition Letters, 2020, 136, 264-271.	2.6	35
7	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.	0.8	31
8	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.	1.7	28
9	Fully eco-friendly H 2 sensing device based on Pd-decorated graphene. Sensors and Actuators B: Chemical, 2017, 239, 1144-1152.	4.0	28
10	Graphene-like layers as promising chemiresistive sensing material for detection of alcohols at low concentration. Journal of Applied Physics, 2018, 123, .	1.1	27
11	An End to End Indoor Air Monitoring System Based on Machine Learning and SENSIPLUS Platform. IEEE Access, 2020, 8, 72204-72215.	2.6	26
12	Palladium Nanowires Assembly by Dielectrophoresis Investigated as Hydrogen Sensors. IEEE Nanotechnology Magazine, 2008, 7, 776-781.	1.1	23
13	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.	4.0	22
14	Cooperative 3D Air Quality Assessment with Wireless Chemical Sensing Networks. Procedia Engineering, 2011, 25, 84-87.	1.2	21
15	A maker friendly mobile and social sensing approach to urban air quality monitoring. , 2014, , .		21
16	Crowdsensing IoT Architecture for Pervasive Air Quality and Exposome Monitoring: Design, Development, Calibration, and Long-Term Validation. Sensors, 2021, 21, 5219.	2.1	14
17	A Wearable Low-Power Sensing Platform for Environmental and Health Monitoring: The Convergence Project. Sensors, 2021, 21, 1802.	2.1	12
18	A Simple Optical Model for the Swelling Evaluation in Polymer Nanocomposites. Journal of Sensors, 2009, 2009, 1-6.	0.6	10

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19	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.	1.7	9
20	Inkjet printed graphene-based chemi-resistors for gas detection in environmental conditions. , 2015, , .		9
21	Electronic Noses for Composites Surface Contamination Detection in Aerospace Industry. Sensors, 2017, 17, 754.	2.1	9
22	An Holistic Approach to e-Nose Response Patterns Analysis—An Application to Nondestructive Tests. IEEE Sensors Journal, 2016, 16, 2617-2626.	2.4	8
23	Improvement of NO2 Detection: Graphene Decorated With ZnO Nanoparticles. IEEE Sensors Journal, 2019, 19, 8751-8757.	2.4	8
24	Optical Reorientation in Dye-Doped Nematics. Molecular Crystals and Liquid Crystals, 1997, 302, 111-120.	0.3	7
25	Filled Polysilsesquioxanes: A New Approach to Chemical Sensing. Macromolecular Symposia, 2007, 247, 350-356.	0.4	7
26	Nanopatterned platinum electrodes by focused ion beam in single palladium nanowire based devices. Microelectronic Engineering, 2011, 88, 3261-3266.	1.1	7
27	Graphene-based Schottky Device Detecting NH3 at ppm level in Environmental Conditions. Procedia Engineering, 2014, 87, 232-235.	1.2	7
28	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.	4.0	7
29	Single Palladium Nanowire Growth in Place Assisted by Dielectrophoresis and Focused Ion Beam. Journal of Nanoscience and Nanotechnology, 2009, 9, 2931-2936.	0.9	6
30	RFID tag for vegetable ripening evaluation using an auxiliary smart gas sensor. , 2014, , .		6
31	Low Temperature CVD Grown Graphene for Highly Selective Gas Sensors Working under Ambient Conditions. Proceedings (mdpi), 2017, 1, 445.	0.2	6
32	CVD transfer-free graphene for sensing applications. Beilstein Journal of Nanotechnology, 2017, 8, 1015-1022.	1.5	6
33	Electronic Nose as an NDT Tool for Aerospace Industry. Physics Procedia, 2015, 62, 23-28.	1.2	5
34	Embedding a Critical Temperature Indicator in a High-Frequency Passive RFID Transponder. IEEE Journal of Radio Frequency Identification, 2020, 4, 256-264.	1.5	5
35	Cross interference effects between water and NH<inf>3</inf> on a sensor based on graphene/silicon Schottky diode. , 2015, , .		4
36	A Study of the Swelling Properties of Polymer Nanocomposites through Electrical and Optical Characterization. Macromolecular Symposia, 2009, 286, 203-209.	0.4	3

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37	Auxiliary smart gas sensor prototype plugged in a rfid active tag for ripening evaluation. , 2015, , .		3
38	Effective Tuning of Silver Decorated Graphene Sensing Properties by Adjusting the Ag NPs Coverage Density. Lecture Notes in Electrical Engineering, 2018, , 82-89.	0.3	3
39	Extended Non-destructive Testing for Surface Quality Assessment. , 2021, , 119-222.		3
40	Hyper resoluted Air Quality maps in urban environment with crowdsensed data from intelligent low cost sensors. , 2022, , .		3
41	Silicon infrared diffuser for wireless communication. Applied Optics, 2006, 45, 6746.	2.1	2
42	Power Savvy Wireless E-Nose Network using In-Network Intelligence. , 2009, , .		2
43	The effect of solvent on the morphology of ZnO nanostructure assembly by dielectrophoresis and its device applications. Electrophoresis, 2012, 33, 2086-2093.	1.3	2
44	Vocs Sensors Based on Polyaniline/Graphene-Nanosheets Bilayer. Lecture Notes in Electrical Engineering, 2015, , 197-201.	0.3	2
45	Enabling Citizen Science with A Crowdfunded and Field Validated Smart Air Quality Monitor. Proceedings (mdpi), 2018, 2, 932.	0.2	2
46	Effect of Humidity on the Hydrogen Sensing in Graphene Based Devices. Lecture Notes in Electrical Engineering, 2019, , 11-16.	0.3	2
47	Chemical Sensors: Conductometric Gas Sensors. , 2023, , 189-208.		2
48	Graphene Decoration for Gas Detection. Lecture Notes in Electrical Engineering, 2018, , 35-40.	0.3	2
49	Fabrication and Characterization of Sensitive Polymer (Nano)Composites. Macromolecular Symposia, 2005, 228, 139-146.	0.4	1
50	Pursing Contamination Detection on Aircraft CFRP Surfaces By Artificial Olfaction Techniques. , 2011, , .		1
51	Combining Real Time Classifiers for Fast and Reliable Electronic Nose Response Analysis for Aerospace NDTs. Procedia Engineering, 2014, 87, 859-862.	1.2	1
52	Graphene-Si Schottky diode in environmental conditions at low NH_3 ppm level. , 2014, , .		1
53	A Networked Wearable Device for Chemical Multisensing. Lecture Notes in Electrical Engineering, 2019, , 17-24.	0.3	1
54	Easy Recovery Method for Graphene-Based Chemi-Resistors. Lecture Notes in Electrical Engineering, 2015, , 203-206.	0.3	1

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55	Assembly of Zinc Oxide Nanostructures by Dielectrophoresis for Sensing Devices. Lecture Notes in Electrical Engineering, 2014, , 261-264.	0.3	0
56	Chili Pepper Scent: Study and Recognition with Chemiresistors Array. Proceedings (mdpi), 2017, 1, .	0.2	0
57	Cooperative Air Quality Sensing with Crowdfunded Mobile Chemical Multisensor Devices. Proceedings (mdpi), 2017, 1, 602.	0.2	0