

Emiliano Zampetti

List of Publications by Year in descending order

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63
papers

1,241
citations

304743

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h-index

395702

33
g-index

66
all docs

66
docs citations

66
times ranked

1754
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and optimization of an ultra thin flexible capacitive humidity sensor. Sensors and Actuators B: Chemical, 2009, 143, 302-307.	7.8	91
2	A high sensitive NO ₂ gas sensor based on PEDOT/PSS/TiO ₂ nanofibres. Sensors and Actuators B: Chemical, 2013, 176, 390-398.	7.8	87
3	Design of a very large chemical sensor system for mimicking biological olfaction. Sensors and Actuators B: Chemical, 2010, 146, 446-452.	7.8	73
4	Flexible sensing systems based on polysilicon thin film transistors technology. Sensors and Actuators B: Chemical, 2013, 179, 114-124.	7.8	62
5	A study of a QCM sensor based on pentacene for the detection of BTX vapors in air. Sensors and Actuators B: Chemical, 2017, 240, 1160-1164.	7.8	53
6	Biomimetic sensing layer based on electrospun conductive polymer webs. Biosensors and Bioelectronics, 2011, 26, 2460-2465.	10.1	46
7	A review of quartz crystal microbalances for space applications. Sensors and Actuators A: Physical, 2019, 287, 48-75.	4.1	44
8	Platinum nanoparticles on electrospun titania nanofibers as hydrogen sensing materials working at room temperature. Nanoscale, 2014, 6, 9177-9184.	5.6	42
9	Flexible sensorial system based on capacitive chemical sensors integrated with readout circuits fully fabricated on ultra thin substrate. Sensors and Actuators B: Chemical, 2011, 155, 768-774.	7.8	36
10	Large-Scale Chemical Sensor Array Testing Biological Olfaction Concepts. IEEE Sensors Journal, 2012, 12, 3174-3183.	4.7	36
11	Nanofibrous PANI-based conductive polymers for trace gas analysis. Thin Solid Films, 2011, 520, 978-985.	1.8	35
12	Electronic nose and SPME techniques to monitor phenanthrene biodegradation in soil. Sensors and Actuators B: Chemical, 2008, 131, 63-70.	7.8	34
13	Humidity effects on a novel eco-friendly chemosensor based on electrospun PANi/PHB nanofibres. Sensors and Actuators B: Chemical, 2016, 232, 16-27.	7.8	34
14	Use of a multiplexed oscillator in a miniaturized electronic nose based on a multichannel quartz crystal microbalance. Sensors and Actuators B: Chemical, 2008, 131, 159-166.	7.8	32
15	Top-down approach from satellite to terrestrial rover application for environmental monitoring of landfills. Science of the Total Environment, 2017, 584-585, 1333-1348.	8.0	32
16	Improving sensing features of a nanocomposite PEDOT:PSS sensor for NO breath monitoring. Sensors and Actuators B: Chemical, 2013, 179, 87-94.	7.8	30
17	Enhanced Sensory Properties of a Multichannel Quartz Crystal Microbalance Coated with Polymeric Nanobeads. Sensors, 2007, 7, 2920-2928.	3.8	29
18	Flexible Piezoelectric Transducer Based on Electrospun PVDF Nanofibers for Sensing Applications. Procedia Engineering, 2014, 87, 1509-1512.	1.2	28

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19	On-chip fabrication of ultrasensitive NO ₂ sensors based on silicon nanowires. Applied Physics Letters, 2012, 101, 103101.	3.3	26
20	Alcohol vapor sensory properties of nanostructured conjugated polymers. Journal of Physics Condensed Matter, 2008, 20, 474207.	1.8	25
21	Use of electronic nose technology to measure soil microbial activity through biogenic volatile organic compounds and gases release. Soil Biology and Biochemistry, 2011, 43, 2094-2107.	8.8	25
22	Gas sensor based on photoconductive electrospun titania nanofibres operating at room temperature. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	25
23	Thermo-mechanical design and testing of a microbalance for space applications. Advances in Space Research, 2014, 54, 2386-2397.	2.6	22
24	A field intercomparison of three passive air samplers for gaseous mercury in ambient air. Atmospheric Measurement Techniques, 2021, 14, 3657-3672.	3.1	19
25	Environmental Hg vapours adsorption and detection by using functionalized gold nanoparticles network. Journal of Environmental Chemical Engineering, 2018, 6, 4706-4713.	6.7	17
26	Effects of temperature and humidity on electrospun conductive nanofibers based on polyaniline blends. Journal of Nanoparticle Research, 2011, 13, 6193-6200.	1.9	16
27	Exploitation of an integrated microheater on QCM sensor in particulate matter measurements. Sensors and Actuators A: Physical, 2017, 264, 205-211.	4.1	16
28	Double layer sensors mimic olfactive perception: A case study. Thin Solid Films, 2008, 516, 7857-7865.	1.8	15
29	Aspergillus Species Discrimination Using a Gas Sensor Array. Sensors, 2020, 20, 4004.	3.8	14
30	Design and test of an electronic nose for monitoring the air quality in the international space station. Microgravity Science and Technology, 2007, 19, 60-64.	1.4	13
31	Sensing Asthma with Portable Devices Equipped with Ultrasensitive Sensors Based on Electrospun Nanomaterials. Electroanalysis, 2014, 26, 1419-1429.	2.9	13
32	PEDOT:PSS coated titania nanofibers for NO ₂ detection: Study of humidity effects. Sensors and Actuators B: Chemical, 2013, 179, 69-73.	7.8	12
33	Functionalized Gold Nanoparticles as an Active Layer for Mercury Vapor Detection at Room Temperature. ACS Applied Nano Materials, 2021, 4, 2930-2940.	5.0	12
34	TiO ₂ Nanofibrous Chemoresistors Coated with PEDOT and PANi Blends for High Performance Gas Sensors. Procedia Engineering, 2012, 47, 937-940.	1.2	10
35	Piezoelectric crystal microbalance measurements of enthalpy of sublimation of C ₂ dicarboxylic acids. Atmospheric Measurement Techniques, 2016, 9, 655-668.	3.1	9
36	Characterization of thermally controlled quartz crystal microbalances. , 2016, , .		9

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37	Elemental mercury vapor chemoresistors employing TiO ₂ nanofibers photocatalytically decorated with Au-nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 957-967.	7.8	9
38	1/f noise and its unusual high-frequency deactivation at high biasing currents in carbon black polymers with residual 1/f ³ ($\beta=2.2$) noise and a preliminary estimation of the average trap energy. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 577-585.	7.8	8
39	VISTA: A $\frac{1}{4}$ -Thermogravimeter for Investigation of Volatile Compounds in Planetary Environments. <i>Origins of Life and Evolution of Biospheres</i> , 2016, 46, 273-281.	1.9	8
40	Passive Sampling of Gaseous Elemental Mercury Based on a Composite TiO ₂ NP/AuNP Layer. <i>Nanomaterials</i> , 2018, 8, 798.	4.1	8
41	Potentials and limitations of a porphyrin-based AT-cut resonator for sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 411-417.	7.8	7
42	Interdigitated sensorial system on flexible substrate. , 2008, , .		7
43	Exploring the feasibility of volatile desorption studies by means of a quartz crystal microbalance with an integrated micro-heater. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 504-510.	4.1	7
44	Induced movements of giant vesicles by millimeter wave radiation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1710-1718.	2.6	6
45	Very Large Chemical Sensor Array for Mimicking Biological Olfaction. , 2009, , .		5
46	Photoconductive Electrospun Titania Nanofibres to Develop Gas Sensors Operating at Room Temperature. <i>Nanoscience and Technology</i> , 2015, , 115-128.	1.5	5
47	A smart nanofibrous material for adsorbing and detecting elemental mercury in air. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6883-6893.	4.9	5
48	Thermally Driven Selective Nanocomposite PS-PHB/MGC Nanofibrous Conductive Sensor for Air Pollutant Detection. <i>Frontiers in Chemistry</i> , 2018, 6, 432.	3.6	5
49	Photocatalytically Decorated Au-nanoclusters TiO ₂ Nanofibres for Elemental Mercury Vapor Detection. <i>Procedia Engineering</i> , 2015, 120, 422-426.	1.2	4
50	VISTA Instrument: A PCM-Based Sensor for Organics and Volatiles Characterization by Using Thermogravimetric Technique. , 2018, , .		4
51	Use of Gold Nanoparticles as Substrate for Diffusive Monitoring of Gaseous Mercury. <i>Materials</i> , 2018, 11, 2119.	2.9	4
52	Calibration in cryogenic conditions of deposited thin-film thermometers on quartz crystal microbalances. <i>Sensors and Actuators A: Physical</i> , 2021, 330, 112878.	4.1	4
53	Low-Cost Benzene Toluene Xylene Measurement Gas System Based on the Mini Chromatographic Cartridge. <i>Sensors</i> , 2021, 21, 125.	3.8	4
54	Hydrophobic Noble Metal Nanoparticles: Synthesis, Characterization and Perspectives as Gas Sensing Materials. <i>Procedia Engineering</i> , 2015, 120, 781-786.	1.2	3

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55	Characteristics and Performances of a Nanostructured Material for Passive Samplers of Gaseous Hg. Sensors, 2020, 20, 6021.	3.8	3
56	UV Assisted Chemical Sensor Based on Electrospun Titania nanofibers Working at Room Temperature. Procedia Engineering, 2012, 47, 912-915.	1.2	2
57	Design of 3D printed holder for quartz crystal microbalances. , 2021, , .		2
58	Remotely Controlled Terrestrial Vehicle Integrated Sensory System for Environmental Monitoring. Lecture Notes in Electrical Engineering, 2018, , 338-343.	0.4	2
59	Pocket Mercury-Vapour Detection System Employing a Preconcentrator Based on Au-TiO ₂ Nanomaterials. Sensors, 2021, 21, 8255.	3.8	2
60	Array of nanofibrous polyaniline-based sensors with different chemo-structural assembling. , 2009, , .		1
61	Chemoresistive nanofibrous sensor array and read-out electronics on flexible substrate. , 2009, , .		1
62	Comparison Between Sensing Systems for Ammonium Detection And Measurement In Soil. , 2009, , .		0
63	NOESIS: A nitric oxide exhaled sensor integrated system. , 2013, , .		0