

Emiliano Zampetti

List of Publications by Year in descending order

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63
papers

1,241
citations

304743

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395702

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66
all docs

66
docs citations

66
times ranked

1754
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A field intercomparison of three passive air samplers for gaseous mercury in ambient air. Atmospheric Measurement Techniques, 2021, 14, 3657-3672.	3.1	19
3	Design of 3D printed holder for quartz crystal microbalances. , 2021, , .		2
4	Calibration in cryogenic conditions of deposited thin-film thermometers on quartz crystal microbalances. Sensors and Actuators A: Physical, 2021, 330, 112878.	4.1	4
5	Low-Cost Benzene Toluene Xylene Measurement Gas System Based on the Mini Chromatographic Cartridge. Sensors, 2021, 21, 125.	3.8	4
6	Pocket Mercury-Vapour Detection System Employing a Preconcentrator Based on Au-TiO ₂ Nanomaterials. Sensors, 2021, 21, 8255.	3.8	2
7	Aspergillus Species Discrimination Using a Gas Sensor Array. Sensors, 2020, 20, 4004.	3.8	14
8	Characteristics and Performances of a Nanostructured Material for Passive Samplers of Gaseous Hg. Sensors, 2020, 20, 6021.	3.8	3
9	A review of quartz crystal microbalances for space applications. Sensors and Actuators A: Physical, 2019, 287, 48-75.	4.1	44
10	VISTA Instrument: A PCM-Based Sensor for Organics and Volatiles Characterization by Using Thermogravimetric Technique. , 2018, , .		4
11	Use of Gold Nanoparticles as Substrate for Diffusive Monitoring of Gaseous Mercury. Materials, 2018, 11, 2119.	2.9	4
12	Passive Sampling of Gaseous Elemental Mercury Based on a Composite TiO ₂ NP/AuNP Layer. Nanomaterials, 2018, 8, 798.	4.1	8
13	Thermally Driven Selective Nanocomposite PS-PHB/MGC Nanofibrous Conductive Sensor for Air Pollutant Detection. Frontiers in Chemistry, 2018, 6, 432.	3.6	5
14	Environmental Hg vapours adsorption and detection by using functionalized gold nanoparticles network. Journal of Environmental Chemical Engineering, 2018, 6, 4706-4713.	6.7	17
15	Remotely Controlled Terrestrial Vehicle Integrated Sensory System for Environmental Monitoring. Lecture Notes in Electrical Engineering, 2018, , 338-343.	0.4	2
16	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
17	Elemental mercury vapor chemoresistors employing TiO ₂ nanofibers photocatalytically decorated with Au-nanoparticles. Sensors and Actuators B: Chemical, 2017, 247, 957-967.	7.8	9
18	Exploitation of an integrated microheater on QCM sensor in particulate matter measurements. Sensors and Actuators A: Physical, 2017, 264, 205-211.	4.1	16

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19	A study of a QCM sensor based on pentacene for the detection of BTX vapors in air. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 1160-1164.	7.8	53
20	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
21	Piezoelectric crystal microbalance measurements of enthalpy of sublimation of C<sub>2> and C<sub>9> dicarboxylic acids. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 655-668.	3.1	9
22	Characterization of thermally controlled quartz crystal microbalances. , 2016, , .		9
23	VISTA: A 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
24	Humidity effects on a novel eco-friendly chemosensor based on electrospun PANi/PHB nanofibres. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 16-27.	7.8	34
25	Hydrophobic Noble Metal Nanoparticles: Synthesis, Characterization and Perspectives as Gas Sensing Materials. <i>Procedia Engineering</i> , 2015, 120, 781-786.	1.2	3
26	Photoconductive Electrospun Titania Nanofibres to Develop Gas Sensors Operating at Room Temperature. <i>Nanoscience and Technology</i> , 2015, , 115-128.	1.5	5
27	Photocatalytically Decorated Au-nanoclusters TiO ₂ Nanofibres for Elemental Mercury Vapor Detection. <i>Procedia Engineering</i> , 2015, 120, 422-426.	1.2	4
28	Flexible Piezoelectric Transducer Based on Electrospun PVDF Nanofibers for Sensing Applications. <i>Procedia Engineering</i> , 2014, 87, 1509-1512.	1.2	28
29	Induced movements of giant vesicles by millimeter wave radiation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1710-1718.	2.6	6
30	Thermo-mechanical design and testing of a microbalance for space applications. <i>Advances in Space Research</i> , 2014, 54, 2386-2397.	2.6	22
31	Platinum nanoparticles on electrospun titania nanofibers as hydrogen sensing materials working at room temperature. <i>Nanoscale</i> , 2014, 6, 9177-9184.	5.6	42
32	Sensing Asthma with Portable Devices Equipped with Ultrasensitive Sensors Based on Electrospun Nanomaterials. <i>Electroanalysis</i> , 2014, 26, 1419-1429.	2.9	13
33	Gas sensor based on photoconductive electrospun titania nanofibres operating at room temperature. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	25
34	Flexible sensing systems based on polysilicon thin film transistors technology. <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 114-124.	7.8	62
35	PEDOT:PSS coated titania nanofibers for NO ₂ detection: Study of humidity effects. <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 69-73.	7.8	12
36	NOESIS: A nitric oxide exhaled sensor integrated system. , 2013, , .		0

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37	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
38	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
39	On-chip fabrication of ultrasensitive NO ₂ sensors based on silicon nanowires. Applied Physics Letters, 2012, 101, 103101.	3.3	26
40	Large-Scale Chemical Sensor Array Testing Biological Olfaction Concepts. IEEE Sensors Journal, 2012, 12, 3174-3183.	4.7	36
41	UV Assisted Chemical Sensor Based on Electrospun Titania nanofibers Working at Room Temperature. Procedia Engineering, 2012, 47, 912-915.	1.2	2
42	1/f noise and its unusual high-frequency deactivation at high biasing currents in carbon black polymers with residual 1/f ³ (f ³ =2.2) noise and a preliminary estimation of the average trap energy. Sensors and Actuators B: Chemical, 2012, 174, 577-585.	7.8	8
43	TiO ₂ Nanofibrous Chemoresistors Coated with PEDOT and PANi Blends for High Performance Gas Sensors. Procedia Engineering, 2012, 47, 937-940.	1.2	10
44	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
45	Nanofibrous PANI-based conductive polymers for trace gas analysis. Thin Solid Films, 2011, 520, 978-985.	1.8	35
46	Exploring the feasibility of volatile desorption studies by means of a quartz crystal microbalance with an integrated micro-heater. Sensors and Actuators A: Physical, 2011, 172, 504-510.	4.1	7
47	Effects of temperature and humidity on electrospun conductive nanofibers based on polyaniline blends. Journal of Nanoparticle Research, 2011, 13, 6193-6200.	1.9	16
48	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
49	Biomimetic sensing layer based on electrospun conductive polymer webs. Biosensors and Bioelectronics, 2011, 26, 2460-2465.	10.1	46
50	Design of a very large chemical sensor system for mimicking biological olfaction. Sensors and Actuators B: Chemical, 2010, 146, 446-452.	7.8	73
51	Comparison Between Sensing Systems for Ammonium Detection And Measurement In Soil. , 2009, , .		0
52	Very Large Chemical Sensor Array for Mimicking Biological Olfaction. , 2009, , .		5
53	Array of nanofibrous polyaniline-based sensors with different chemo-structural assembling. , 2009, , .		1
54	Design and optimization of an ultra thin flexible capacitive humidity sensor. Sensors and Actuators B: Chemical, 2009, 143, 302-307.	7.8	91

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55	Chemoresistive nanofibrous sensor array and read-out electronics on flexible substrate. , 2009, , .		1
56	Potentials and limitations of a porphyrin-based AT-cut resonator for sensing applications. Sensors and Actuators B: Chemical, 2008, 130, 411-417.	7.8	7
57	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
58	Electronic nose and SPME techniques to monitor phenanthrene biodegradation in soil. Sensors and Actuators B: Chemical, 2008, 131, 63-70.	7.8	34
59	Double layer sensors mimic olfactive perception: A case study. Thin Solid Films, 2008, 516, 7857-7865.	1.8	15
60	Alcohol vapor sensory properties of nanostructured conjugated polymers. Journal of Physics Condensed Matter, 2008, 20, 474207.	1.8	25
61	Interdigitated sensorial system on flexible substrate. , 2008, , .		7
62	Enhanced Sensory Properties of a Multichannel Quartz Crystal Microbalance Coated with Polymeric Nanobeads. Sensors, 2007, 7, 2920-2928.	3.8	29
63	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