

Stefano Zampolli

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,500
citations

331670

21
h-index

345221

36
g-index

62
all docs

62
docs citations

62
times ranked

1641
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time monitoring of sub-ppb concentrations of aromatic volatiles with a MEMS-enabled miniaturized gas-chromatograph. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 322-328.	7.8	190
2	An electronic nose based on solid state sensor arrays for low-cost indoor air quality monitoring applications. <i>Sensors and Actuators B: Chemical</i> , 2004, 101, 39-46.	7.8	185
3	Flexible tag microlab development: Gas sensors integration in RFID flexible tags for food logistic. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 2-7.	7.8	147
4	Development of ultra-low-power consumption MOX sensors with ppb-level VOC detection capabilities for emerging applications. <i>Sensors and Actuators B: Chemical</i> , 2008, 135, 342-351.	7.8	132
5	Selectivity enhancement of metal oxide gas sensors using a micromachined gas chromatographic column. <i>Sensors and Actuators B: Chemical</i> , 2005, 105, 400-406.	7.8	121
6	An RFID reader with onboard sensing capability for monitoring fruit quality. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 143-149.	7.8	81
7	On the potential of ion mobility spectrometry coupled to GC pre-separation – A tutorial. <i>Analytica Chimica Acta</i> , 2018, 1024, 52-64.	5.4	62
8	A supramolecular approach to sub-ppb aromatic VOC detection in air. <i>Chemical Communications</i> , 2007, , 2790.	4.1	49
9	Carbon-Cap for Ohmic Contacts on Ion-Implanted 4H-SiC. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, H432.	2.2	48
10	Ultra-low-power components for an RFID Tag with physical and chemical sensors. <i>Microsystem Technologies</i> , 2008, 14, 581-588.	2.0	42
11	Use of different sensing materials and deposition techniques for thin-film sensors to increase sensitivity and selectivity. <i>IEEE Sensors Journal</i> , 2003, 3, 454-459.	4.7	32
12	Compact-GC platform: A flexible system integration strategy for a completely microsystems-based gas-chromatograph. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127444.	7.8	31
13	Discontinuously Operated Metal Oxide Gas Sensors for Flexible Tag Microlab Applications. <i>IEEE Sensors Journal</i> , 2008, 8, 176-181.	4.7	29
14	In Search of the Ultimate Benzene Sensor: The EtQxBox Solution. <i>ACS Sensors</i> , 2017, 2, 590-598.	7.8	29
15	Conventional and enantioselective gas chromatography with microfabricated planar columns for analysis of real-world samples of plant volatile fraction. <i>Journal of Chromatography A</i> , 2016, 1429, 329-339.	3.7	27
16	A Programmable Interface Circuit for an Ultralow Power Gas Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011, 60, 282-289.	4.7	26
17	Design and experimental characterization of thin film heaters on glass substrate for Lab-on-Chip applications. <i>Sensors and Actuators A: Physical</i> , 2015, 229, 203-210.	4.1	26
18	Flexible tag datalogger for food logistics. <i>Sensors and Actuators A: Physical</i> , 2010, 162, 316-323.	4.1	25

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19	Environmental monitoring system compliant with the IEEE 1451 standard and featuring a simplified transducer interface. <i>Sensors and Actuators A: Physical</i> , 2007, 137, 175-184.	4.1	24
20	Thermal Conductivity Detector for Gas Chromatography: Very Wide Gain Range Acquisition System and Experimental Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 974-981.	4.7	24
21	Drop-coated sensing layers on ultra low power hotplates for an RFID flexible tag microlab. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 462-466.	7.8	22
22	Development of Ultra Low Power Consumption Hotplates for Gas Sensing Applications. , 2006, , .		17
23	Optimization of a wafer-level process for the fabrication of highly reproducible thin-film MOX sensors. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 548-555.	7.8	17
24	Flexible Tag Datalogger for Food Logistics. <i>Procedia Chemistry</i> , 2009, 1, 1215-1218.	0.7	13
25	Ultra Low Power MOX Sensors with ppb-Level VOC Detection Capabilities. , 2007, , .		12
26	Rapid screening and identification of illicit drugs by IR absorption spectroscopy and gas chromatography. <i>Proceedings of SPIE</i> , 2013, , .	0.8	12
27	Hyphenation of a MEMS based pre-concentrator and GC-IMS. <i>Talanta</i> , 2019, 191, 141-148.	5.5	9
28	Surface ionization detection of amine containing drugs. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 771-776.	7.8	8
29	A MEMS-Enabled Deployable Trace Chemical Sensor Based on Fast Gas-Chromatography and Quartz Enhanced Photoacoustic Spectroscopy. <i>Sensors</i> , 2020, 20, 120.	3.8	8
30	Thermal Modeling and Characterization of a Thin-Film Heater on Glass Substrate for Lab-on-Chip Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 1098-1098.	4.7	6
31	Polysulfone Hollow Porous Granules Prepared from Wastes of Ultrafiltration Membranes as Sustainable Adsorbent for Water and Air Remediation. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700019.	5.3	6
32	Surface study of thin film gas sensors on a Si micro-machined substrate. <i>Applied Surface Science</i> , 2002, 189, 39-52.	6.1	5
33	Material Properties Measurement and Numerical Simulation for Characterization of Ultra-Low-Power Consumption Hotplates. , 2007, , .		4
34	Tuning the conformational flexibility of quinoxaline cavitands for complexation at the gas/solid interface. <i>Chemical Communications</i> , 2022, 58, 7554-7557.	4.1	4
35	Interface circuit for an ultra low power gas sensor. , 2009, , .		3
36	Thermal conductivity detector compact Spice model based on experimental measurements and 3D simulations. <i>Sensors and Actuators A: Physical</i> , 2012, 178, 49-56.	4.1	3

#	ARTICLE	IF	CITATIONS
37	Improvement of the Thermal Resistance of Thin Film Heaters on Glass Substrate for Lab-on-Chip Applications. <i>Procedia Engineering</i> , 2014, 87, 959-962.	1.2	3
38	Ultra-low-power electronics and devices for a multisensing RFID tag. , 2007, , .		2
39	A miniaturized gas-chromatographic system for the evaluation of fish freshness. , 2008, , .		2
40	Thermal Transient Measurements of an Ultra-Low-Power MOX Sensor. <i>Journal of Sensors</i> , 2010, 2010, 1-8.	1.1	2
41	Characterization of the thermal transients of an Ultra Low Power micromachined sensor. , 2010, , .		2
42	Measurements, FEM simulation and spice modeling of a Thermal Conductivity Detector. , 2011, , .		2
43	Thermal Conductivity Detector for gas-chromatography: Acquisition system and experimental measurements. , 2012, , .		2
44	A palm-sized gas-chromatographic system for sub-ppb VOC detection in air quality monitoring applications. , 2006, , .		1
45	A smart gas sensor for environmental monitoring, compliant with the IEEE 1451 standard and featuring a simplified transducer interface. <i>International Journal of Intelligent Systems Technologies and Applications</i> , 2007, 3, 63.	0.2	1
46	167 Detection of NH ₃ , DMA and TMA by a metal oxide gas sensor array for fish freshness evaluation. , 2009, , .		1
47	SENSITIVITY AND SELECTIVITY ENHANCEMENT IN WO ₃ AND CR _{2-x} Ti _x O ₃ THIN FILMS DEPOSITED BY PULSED LASER ABLATION. , 2002, , .		1
48	Trace benzene monitoring in the outdoor air: comparative results between measurements carried out with an innovative approach and a std. GC tool. , 2001, , 1706-1709.		1
49	Cavitand Decorated Silica as a Selective Preconcentrator for BTEX Sensing in Air. <i>Nanomaterials</i> , 2022, 12, 2204.	4.1	1
50	MULTISENSOR ARRAY AND PATTERN RECOGNITION TECHNIQUES FOR CHARACTERIZATION OF DIFFERENT MATE BRANDS. , 2002, , .		0
51	RFID reader with gas sensing capability for monitoring fruit along the logistic chain: array development and signal processing. , 2007, 6589, 226.		0
52	Direct detection of DNA sequences based on capacitance measurements through a configurable mixed-signal architecture. , 2008, , .		0
53	Micromachined gas calibration sources based on nanometric depth microchannels. <i>Procedia Engineering</i> , 2010, 5, 1344-1347.	1.2	0
54	Carbon-Cap for Ohmic Contacts on n-Type Ion Implanted 4H-SiC. <i>Materials Science Forum</i> , 0, 679-680, 504-507.	0.3	0

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55	High Dose Al ⁺ Implanted and Microwave Annealed 4H-SiC. Materials Science Forum, 2012, 717-720, 817-820.	0.3	0
56	Selective environmental benzene monitoring microsystem based on optimized supramolecular receptors. , 2015, , .		0
57	Evaluation of MOX Sensor Characteristics in Ultra-Low Power Operation Modes: Application to a Semi-Passive RFID Tag for Food Logistics. Proceedings (mdpi), 2017, 1, 459.	0.2	0
58	GC-QEPAS: A Mems-Enabled Portable Trace Chemical Sensor for Safety & Security Applications. , 2019, , .		0
59	How Fuzzy Logic Can Help Detecting Buried Land Mines. , 2003, , 127-141.		0
60	SUB-PPM LEVEL INDOOR AIR QUALITY MONITORING: THE CLEAN-AIR PROJECT. , 2004, , .		0
61	A New Sensitive and Fast Detection System for Amphetamine Type Stimulants (ATS), Based on Gas-Chromatography (GC) and Hollow Fiber Infrared Absorption Spectroscopy (HF-IRAS). Lecture Notes in Electrical Engineering, 2014, , 177-182.	0.4	0
62	Editorial for the Special Issue on MEMS and Microfluidic Devices for Analytical Chemistry and Biosensing. Micromachines, 2022, 13, 896.	2.9	0