

# 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	Editorial for the Special Issue on MEMS and Microfluidic Devices for Analytical Chemistry and Biosensing. <i>Micromachines</i> , 2022, 13, 896.	2.9	0
2	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
3	Cavitand Decorated Silica as a Selective Preconcentrator for BTEX Sensing in Air. <i>Nanomaterials</i> , 2022, 12, 2204.	4.1	1
4	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
5	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
6	Hyphenation of a MEMS based pre-concentrator and GC-IMS. <i>Talanta</i> , 2019, 191, 141-148.	5.5	9
7	GC-QEPAS: A Mems-Enabled Portable Trace Chemical Sensor for Safety & Security Applications. , 2019, , .		0
8	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
9	In Search of the Ultimate Benzene Sensor: The EtQxBox Solution. <i>ACS Sensors</i> , 2017, 2, 590-598.	7.8	29
10	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
11	Evaluation of MOX Sensor Characteristics in Ultra-Low Power Operation Modes: Application to a Semi-Passive RFID Tag for Food Logistics. <i>Proceedings (mdpi)</i> , 2017, 1, 459.	0.2	0
12	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
13	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
14	Selective environmental benzene monitoring microsystem based on optimized supramolecular receptors. , 2015, , .		0
15	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
16	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
17	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). <i>Lecture Notes in Electrical Engineering</i> , 2014, , 177-182.	0.4	0
18	Surface ionization detection of amine containing drugs. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 771-776.	7.8	8

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19	Rapid screening and identification of illicit drugs by IR absorption spectroscopy and gas chromatography. Proceedings of SPIE, 2013, , .	0.8	12
20	Thermal Conductivity Detector for Gas Chromatography: Very Wide Gain Range Acquisition System and Experimental Measurements. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 974-981.	4.7	24
21	High Dose Al <sup>+</sup> Implanted and Microwave Annealed 4H-SiC. Materials Science Forum, 2012, 717-720, 817-820.	0.3	0
22	Thermal Conductivity Detector for gas-chromatography: Acquisition system and experimental measurements. , 2012, , .		2
23	Thermal conductivity detector compact Spice model based on experimental measurements and 3D simulations. Sensors and Actuators A: Physical, 2012, 178, 49-56.	4.1	3
24	Measurements, FEM simulation and spice modeling of a Thermal Conductivity Detector. , 2011, , .		2
25	A Programmable Interface Circuit for an Ultralow Power Gas Sensor. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 282-289.	4.7	26
26	Flexible tag datalogger for food logistics. Sensors and Actuators A: Physical, 2010, 162, 316-323.	4.1	25
27	Drop-coated sensing layers on ultra low power hotplates for an RFID flexible tag microlab. Sensors and Actuators B: Chemical, 2010, 144, 462-466.	7.8	22
28	Micromachined gas calibration sources based on nanometric depth microchannels. Procedia Engineering, 2010, 5, 1344-1347.	1.2	0
29	Thermal Transient Measurements of an Ultra-Low-Power MOX Sensor. Journal of Sensors, 2010, 2010, 1-8.	1.1	2
30	Characterization of the thermal transients of an Ultra Low Power micromachined sensor. , 2010, , .		2
31	Carbon-Cap for Ohmic Contacts on Ion-Implanted 4H-SiC. Electrochemical and Solid-State Letters, 2010, 13, H432.	2.2	48
32	167 Detection of NH <sub>3</sub> , DMA and TMA by a metal oxide gas sensor array for fish freshness evaluation. , 2009, , .		1
33	Real-time monitoring of sub-ppb concentrations of aromatic volatiles with a MEMS-enabled miniaturized gas-chromatograph. Sensors and Actuators B: Chemical, 2009, 141, 322-328.	7.8	190
34	Flexible Tag Datalogger for Food Logistics. Procedia Chemistry, 2009, 1, 1215-1218.	0.7	13
35	Interface circuit for an ultra low power gas sensor. , 2009, , .		3
36	Development of ultra-low-power consumption MOX sensors with ppb-level VOC detection capabilities for emerging applications. Sensors and Actuators B: Chemical, 2008, 135, 342-351.	7.8	132

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37	Ultra-low-power components for an RFID Tag with physical and chemical sensors. <i>Microsystem Technologies</i> , 2008, 14, 581-588.	2.0	42
38	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
39	Direct detection of DNA sequences based on capacitance measurements through a configurable mixed-signal architecture. , 2008, , .		0
40	Discontinuously Operated Metal Oxide Gas Sensors for Flexible Tag Microlab Applications. <i>IEEE Sensors Journal</i> , 2008, 8, 176-181.	4.7	29
41	A miniaturized gas-chromatographic system for the evaluation of fish freshness. , 2008, , .		2
42	Material Properties Measurement and Numerical Simulation for Characterization of Ultra-Low-Power Consumption Hotplates. , 2007, , .		4
43	RFID reader with gas sensing capability for monitoring fruit along the logistic chain: array development and signal processing. , 2007, 6589, 226.		0
44	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
45	Ultra-low-power electronics and devices for a multisensing RFID tag. , 2007, , .		2
46	A supramolecular approach to sub-ppb aromatic VOC detection in air. <i>Chemical Communications</i> , 2007, , 2790.	4.1	49
47	Ultra Low Power MOX Sensors with ppb-Level VOC Detection Capabilities. , 2007, , .		12
48	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
49	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
50	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
51	Development of Ultra Low Power Consumption Hotplates for Gas Sensing Applications. , 2006, , .		17
52	A palm-sized gas-chromatographic system for sub-ppb VOC detection in air quality monitoring applications. , 2006, , .		1
53	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
54	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

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55	SUB-PPM LEVEL INDOOR AIR QUALITY MONITORING: THE CLEAN-AIR PROJECT. , 2004, , .		0
56	Use of different sensing materials and deposition techniques for thin-film sensors to increase sensitivity and selectivity. IEEE Sensors Journal, 2003, 3, 454-459.	4.7	32
57	How Fuzzy Logic Can Help Detecting Buried Land Mines. , 2003, , 127-141.		0
58	MULTISENSOR ARRAY AND PATTERN RECOGNITION TECHNIQUES FOR CHARACTERIZATION OF DIFFERENT MATE BRANDS. , 2002, , .		0
59	Surface study of thin film gas sensors on a Si micro-machined substrate. Applied Surface Science, 2002, 189, 39-52.	6.1	5
60	SENSITIVITY AND SELECTIVITY ENHANCEMENT IN WO <sub>3</sub> AND CR <sub>2</sub> -xTi <sub>x</sub> O <sub>3</sub> THIN FILMS DEPOSITED BY PULSED LASER ABLATION. , 2002, , .		1
61	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
62	Carbon-Cap for Ohmic Contacts on n-Type Ion Implanted 4H-SiC. Materials Science Forum, 0, 679-680, 504-507.	0.3	0