

Luca Francioso

List of Publications by Year in descending order

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71
papers

1,926
citations

236925

25
h-index

254184

43
g-index

73
all docs

73
docs citations

73
times ranked

2603
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible thermoelectric generator for ambient assisted living wearable biometric sensors. Journal of Power Sources, 2011, 196, 3239-3243.	7.8	241
2	TiO ₂ nanowires array fabrication and gas sensing properties. Sensors and Actuators B: Chemical, 2008, 130, 70-76.	7.8	146
3	Nanostructured In ₂ O ₃ â€“SnO ₂ solâ€“gel thin film as material for NO ₂ detection. Sensors and Actuators B: Chemical, 2006, 114, 646-655.	7.8	126
4	Synthesis, electrical characterization, and gas sensing properties of molybdenum oxide nanorods. Applied Physics Letters, 2006, 88, 152111.	3.3	120
5	Synthesis and gas sensing properties of ZnO quantum dots. Sensors and Actuators B: Chemical, 2010, 146, 111-115.	7.8	115
6	Aroma analysis by GC/MS and electronic nose dedicated to Negroamaro and Primitivo typical Italian Apulian wines. Sensors and Actuators B: Chemical, 2013, 179, 259-269.	7.8	70
7	TiO ₂ thin films from titanium butoxide: Synthesis, Pt addition, structural stability, microelectronic processing and gas-sensing properties. Sensors and Actuators B: Chemical, 2008, 130, 599-608.	7.8	61
8	Automotive application of solâ€“gel TiO ₂ thin film-based sensor for lambda measurement. Sensors and Actuators B: Chemical, 2003, 95, 66-72.	7.8	60
9	Modelling, fabrication and experimental testing of an heat sink free wearable thermoelectric generator. Energy Conversion and Management, 2017, 145, 204-213.	9.2	56
10	NO ₂ -gas-sensing properties of mixed In ₂ O ₃ â€“SnO ₂ thin films. Thin Solid Films, 2005, 490, 68-73.	1.8	51
11	Fabrication at wafer level of miniaturized gas sensors based on SnO ₂ nanorods deposited by PECVD and gas sensing characteristics. Sensors and Actuators B: Chemical, 2011, 154, 283-287.	7.8	43
12	PDMS/Kapton Interface Plasma Treatment Effects on the Polymeric Package for a Wearable Thermoelectric Generator. ACS Applied Materials & Interfaces, 2013, 5, 6586-6590.	8.0	43
13	Development of silicon-based potentiometric sensors: Towards a miniaturized electronic tongue. Sensors and Actuators B: Chemical, 2007, 123, 191-197.	7.8	40
14	Linear temperature microhotplate gas sensor array for automotive cabin air quality monitoring. Sensors and Actuators B: Chemical, 2008, 134, 660-665.	7.8	40
15	Investigation of the boundary layer characteristics for assessing the DBD plasma actuator control of the separated flow at low Reynolds numbers. Experimental Thermal and Fluid Science, 2017, 81, 482-498.	2.7	39
16	Investigation of a Micro Dielectric Barrier Discharge Plasma Actuator for Regional Aircraft Active Flow Control. IEEE Transactions on Plasma Science, 2015, 43, 3668-3680.	1.3	38
17	A portable integrated wide-range gas sensing system with smart A/D front-end. Sensors and Actuators B: Chemical, 2008, 130, 164-174.	7.8	37
18	Combustion conditions discrimination properties of Pt-doped TiO ₂ thin film oxygen sensor. Sensors and Actuators B: Chemical, 2007, 123, 516-521.	7.8	36

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19	Metal oxide gas sensor array for the detection of diesel fuel in engine oil. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 125-133.	7.8	34
20	Top-down contact lithography fabrication of a TiO ₂ nanowire array over a SiO ₂ mesa. <i>Nanotechnology</i> , 2006, 17, 3761-3767.	2.6	33
21	Micrometric patterning process of sol-gel SnO ₂ , In ₂ O ₃ and WO ₃ thin film for gas sensing applications: Towards silicon technology integration. <i>Sensors and Actuators B: Chemical</i> , 2006, 119, 159-166.	7.8	31
22	Separation control by a microfabricated SDBD plasma actuator for small engine turbine applications: influence of the excitation waveform. <i>Aerospace Science and Technology</i> , 2018, 76, 442-454.	4.8	31
23	Effect of a micro dielectric barrier discharge plasma actuator on quiescent flow. <i>IET Science, Measurement and Technology</i> , 2014, 8, 135-142.	1.6	29
24	Response evaluation of TiO ₂ sensor to flue gas on spark ignition engine and in controlled environment. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 563-571.	7.8	26
25	A WO ₃ -based gas sensor array with linear temperature gradient for wine quality monitoring. <i>Sensors and Actuators B: Chemical</i> , 2006, 117, 115-122.	7.8	25
26	An 80 mV Startup Voltage Fully Electrical DC-DC Converter for Flexible Thermoelectric Generators. <i>IEEE Sensors Journal</i> , 2016, 16, 2735-2745.	4.7	22
27	Preparation and characterization of UV-cured composite films containing ZnO nanostructures: Effect of filler geometric features on piezoelectric response. <i>Progress in Organic Coatings</i> , 2017, 109, 45-54.	3.9	22
28	Investigation of the Gas-Sensing Performance of Electrospun TiO ₂ Nanofiber-Based Sensors for Ethanol Sensing. <i>IEEE Sensors Journal</i> , 2018, 18, 7365-7374.	4.7	22
29	A CMOS integrated interface circuit for metal-oxide gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 82-89.	7.8	21
30	Gut-on-Chip microphysiological systems: Latest advances in the integration of sensing strategies and adoption of mature detection mechanisms. <i>Sensing and Bio-Sensing Research</i> , 2021, 33, 100443.	4.2	21
31	Influence of electrodes ageing on the properties of the gas sensors based on SnO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 396-402.	7.8	20
32	SnO ₂ thin films from metalorganic precursors: Synthesis, characterization, microelectronic processing and gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2007, 124, 217-226.	7.8	19
33	A 450- μ s A 128-dB Dynamic Range A/D CMOS Interface for MOX Gas Sensors. <i>IEEE Sensors Journal</i> , 2019, 19, 12069-12078.	4.7	17
34	Modeling, fabrication and plasma actuator coupling of flexible pressure sensors for flow separation detection and control in aeronautical applications. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 235201.	2.8	16
35	Experimental assessment of thermoelectric generator package properties: Simulated results validation and real gradient capabilities. <i>Energy</i> , 2015, 86, 300-310.	8.8	14
36	Nanogap Sensors Decorated with SnO ₂ Nanoparticles Enable Low-Temperature Detection of Volatile Organic Compounds. <i>ACS Applied Nano Materials</i> , 2020, 3, 3337-3346.	5.0	13

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37	Integrated interface circuit with multiplexed input and digital output for a 5Å–5 SnO2 thick film gas-sensor matrix. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 568-575.	7.8	12
38	A novel approach to data analysis for semiconductor metal-oxide gas sensors in chromatographic systems. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 1-4.	7.8	10
39	Optimization of Plasma Actuator Excitation Waveform and Materials for Separation Control in Turbomachinery. <i>Energy Procedia</i> , 2017, 126, 786-793.	1.8	10
40	A 296 nJ Energy-per-Measurement Relaxation Oscillator-Based Analog Front-End for Chemiresistive Sensors. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021, 68, 1123-1133.	5.4	10
41	Wafer-Level Fabrication and Gas Sensing Properties of miniaturized gas sensors based on Inductively Coupled Plasma Deposited Tin Oxide Nanorods. <i>Procedia Chemistry</i> , 2009, 1, 196-199.	0.7	9
42	Electrode Material Degradation Monitoring for Durable Dielectric Barrier Discharge Plasma Actuators Manufacturing. , 2016, , .		9
43	Classification of multiple defect concentrations in white wine by platinum microelectrode voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2007, 125, 462-467.	7.8	8
44	Investigations of the Actuation Effect of a Single DBD Plasma Actuator for Flow Separation Control Under Simulated Low-Pressure Turbine Blade Conditions. , 2016, , .		8
45	Low-cost electronics and thin film technology for solâ€™gel titania lambda probes. <i>Sensors and Actuators B: Chemical</i> , 2008, 128, 359-365.	7.8	7
46	Aircraft Distributed Flow Turbulence Sensor Network with Embedded Flow Control Actuators. , 2014, , .		7
47	Fabrication and embedded sensors characterization of a micromachined water-propellant vaporizing liquid microthruster. <i>Applied Thermal Engineering</i> , 2021, 188, 116625.	6.0	7
48	A Novel Silicon Platform for Selective Isolation, Quantification, and Molecular Analysis of Small Extracellular Vesicles. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 5153-5165.	6.7	5
49	Design of an Electronic Nose for Selective Phosphine Detection in Cereals. <i>Sensor Letters</i> , 2006, 4, 229-234.	0.4	5
50	Dissipated power and induced velocity fields data of a micro single dielectric barrier discharge plasma actuator for active flow control. <i>Data in Brief</i> , 2015, 5, 65-70.	1.0	4
51	A Smart Breath Analyzer for Monitoring Home Mechanical Ventilated Patients. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 465-471.	0.4	4
52	Synthesis and characterization of <scp>UV</scp>â€™curable nanocellulose/<scp>ZnO</scp>/<scp>AlN</scp> acrylic flexible films: Thermal, dynamic mechanical and piezoelectric response. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49731.	2.6	4
53	MEMS Vaporizing Liquid Microthruster: A Comprehensive Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8954.	2.5	4
54	<title>Microhotplate-based silicon gas sensor arrays with linear temperature gradient for wine quality monitoring</title>. , 2005, , .		3

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55	Investigating Flow Dynamics with Wireless Pressure Sensors Network. , 2014, , .		3
56	On the transmission of terahertz radiation through silicon-based structures. Journal of Applied Physics, 2014, 116, 044504.	2.5	3
57	Performance Analysis of an MLS-Based Interface for Impulse Response Estimation of Resistive and Capacitive Sensors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3666-3678.	5.4	3
58	A miniaturized gas-chromatographic system for the evaluation of fish freshness. , 2008, , .		2
59	A flexible thermoelectric generator with a fully electrical, low startup voltage and high efficiency DC-DC converter. , 2015, , .		2
60	Approximate Mechanical Properties of Clampedâ€“Clamped Perforated Membranes From \$In-Situ\$ Deflection Measurements Using a Stylus Profiler. Journal of Microelectromechanical Systems, 2019, 28, 472-480.	2.5	2
61	Smart Insole for Diabetic Foot Monitoring. Lecture Notes in Electrical Engineering, 2019, , 571-577.	0.4	2
62	100 nm-Gap Fingers Dielectrophoresis Functionalized MOX Gas Sensor Array for Low Temperature VOCs Detection. Proceedings (mdpi), 2018, 2, .	0.2	1
63	Human Organ-on-a-Chip: Around the Intestine Bends. Lecture Notes in Electrical Engineering, 2019, , 181-188.	0.4	1
64	<title>Cheap silicon technology integrated sol-gel combustion sensor</title>. , 2005, 5836, 255.		0
65	Gas-Sensor Interface Circuit Based on Calibration Free Novel Frequency Measurement Approach with 16-Bit Digital Output. , 2006, , .		0
66	A novel method based on gas microsensors to analyze diesel engine oil contaminated by diluent unburned diesel fuel. , 2006, , .		0
67	Silicon substrate microelectrodes voltammetry performances in white wine faults identification and quantification. , 2007, , .		0
68	Detection of unburned fuel as contaminant in engine oil by a gas microsensor array. , 2007, , .		0
69	A thin film flexible thermoelectric generator with a fully electrical, low startup voltage and high efficiency DC â€” DC converter. , 2015, , .		0
70	Active Sensors/Actuators-Based Flow and Noise Control for Aerospace Applications. Lecture Notes in Electrical Engineering, 2018, , 185-196.	0.4	0
71	A Flexible Data Acquisition System for Aerospace Applications. , 2021, , .		0