## Simonetta Capone

List of Publications by Year in descending order

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		101543	149698
127	3,394	36	56
papers	citations	h-index	g-index
133	133	133	4210
133	155	100	7210
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Sensing characteristics of NiO thin films as NO2 gas sensor. Thin Solid Films, 2002, 418, 9-15.	1.8	238
2	Acetone and ethanol solid-state gas sensors based on TiO2 nanoparticles thin film deposited by matrix assisted pulsed laser evaporation. Sensors and Actuators B: Chemical, 2007, 127, 426-431.	7.8	161
3	Nanostructured In2O3–SnO2 sol–gel thin film as material for NO2 detection. Sensors and Actuators B: Chemical, 2006, 114, 646-655.	7.8	126
4	Enhancement of H2 sensing properties of NiO-based thin films with a Pt surface modification. Sensors and Actuators B: Chemical, 2004, 103, 300-311.	7.8	124
5	CO and NO2 sensing properties of doped-Fe2O3 thin films prepared by LPD. Sensors and Actuators B: Chemical, 2002, 82, 40-47.	7.8	123
6	Synthesis and gas sensing properties of ZnO quantum dots. Sensors and Actuators B: Chemical, 2010, 146, 111-115.	7.8	115
7	The influences of preparation parameters on NiO thin film properties for gas-sensing application. Sensors and Actuators B: Chemical, 2001, 78, 126-132.	7.8	111
8	Methanol gas-sensing properties of CeO2–Fe2O3 thin films. Sensors and Actuators B: Chemical, 2006, 114, 687-695.	7.8	98
9	Monitoring of rancidity of milk by means of an electronic nose and a dynamic PCA analysis. Sensors and Actuators B: Chemical, 2001, 78, 174-179.	7.8	93
10	Gas Sensitivity Measurements on NO2Sensors Based on Copper(II) Tetrakis(n-butylaminocarbonyl)phthalocyanine LB Films. Langmuir, 1999, 15, 1748-1753.	3.5	89
11	Solid State Gas Sensors: State of the Art and Future Activities. ChemInform, 2004, 35, no.	0.0	83
12	Spin-coated thin films of metal porphyrin–phthalocyanine blend for an optochemical sensor of alcohol vapours. Sensors and Actuators B: Chemical, 2004, 100, 88-93.	7.8	78
13	Properties of vanadium oxide thin films for ethanol sensor. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 34-38.	2.1	76
14	A novel gas sensor based on SnO2/Os thin film for the detection of methane at low temperature. Sensors and Actuators B: Chemical, 1999, 58, 350-355.	7.8	76
15	Physical characterization of hafnium oxide thin films and their application as gas sensing devices. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 3564-3568.	2.1	73
16	Moisture influence and geometry effect of Au and Pt electrodes on CO sensing response of SnO2 microsensors based on sol–gel thin film. Sensors and Actuators B: Chemical, 2001, 77, 503-511.	7.8	73
17	Fe <sub>3</sub> O <sub>4</sub> /γ-Fe <sub>2</sub> O <sub>3</sub> Nanoparticle Multilayers Deposited by the Langmuir–Blodgett Technique for Gas Sensors Application. Langmuir, 2014, 30, 1190-1197.	3.5	73
18	Analysis of vapours and foods by means of an electronic nose based on a sol–gel metal oxide sensors array. Sensors and Actuators B: Chemical, 2000, 69, 230-235.	7.8	72

#	Article	IF	CITATIONS
19	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
20	Analytical characterisation of Negroamaro red wines by "Aroma Wheels― Food Chemistry, 2013, 141, 2906-2915.	8.2	65
21	Analysis of CO and CH4 gas mixtures by using a micromachined sensor array. Sensors and Actuators B: Chemical, 2001, 78, 40-48.	7.8	52
22	Metallophthalocyanines thin films in array configuration for electronic optical nose applications. Sensors and Actuators B: Chemical, 2003, 96, 489-497.	7.8	52
23	Volatile components of Negroamaro red wines produced in Apulian Salento area. Food Chemistry, 2012, 132, 2155-2164.	8.2	52
24	NO2-gas-sensing properties of mixed In2O3–SnO2 thin films. Thin Solid Films, 2005, 490, 68-73.	1.8	51
25	Air quality monitoring by means of sol–gel integrated tin oxide thin films. Sensors and Actuators B: Chemical, 1999, 58, 283-288.	7.8	50
26	Influence of autochthonous Saccharomyces cerevisiae strains on volatile profile of Negroamaro wines. LWT - Food Science and Technology, 2014, 58, 35-48.	5.2	49
27	Variation in the Optical Sensing Responses toward Vapors of a Porphyrin/Phthalocyanine Hybrid Thin Film. Chemistry of Materials, 2004, 16, 2083-2090.	6.7	46
28	Towards enhanced performances in gas sensing: SnO2 based nanocrystalline oxides application. Sensors and Actuators B: Chemical, 2007, 122, 564-571.	7.8	46
29	A comparison between V2O5 and WO3 thin films as sensitive elements for NO detection. Thin Solid Films, 1999, 350, 264-268.	1.8	44
30	Sprayed SnO2 thin films for NO2 sensors. Sensors and Actuators B: Chemical, 1999, 58, 370-374.	7.8	43
31	Fabrication at wafer level of miniaturized gas sensors based on SnO2 nanorods deposited by PECVD and gas sensing characteristics. Sensors and Actuators B: Chemical, 2011, 154, 283-287.	7.8	43
32	Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 26, 741-744.	2.4	40
33	SnO2 sol–gel derived thin films for integrated gas sensors. Sensors and Actuators B: Chemical, 2001, 77, 496-502.	7.8	39
34	Palladium/Î <sup>3</sup> -Fe2O3 nanoparticle mixtures for acetone and NO2 gas sensors. Sensors and Actuators B: Chemical, 2017, 243, 895-903.	7.8	38
35	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
36	Chromatographic analysis of VOC patterns in exhaled breath from smokers and nonsmokers. Biomedical Chromatography, 2018, 32, e4132.	1.7	36

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37	Metal oxide gas sensor array for the detection of diesel fuel in engine oil. Sensors and Actuators B: Chemical, 2008, 131, 125-133.	7.8	34
38	Recognition of olive oils by means of an integrated sol–gel SnO2 Electronic Nose. Thin Solid Films, 2002, 418, 59-65.	1.8	32
39	TiO2 nanoparticle thin film deposition by matrix assisted pulsed laser evaporation for sensing applications. Applied Surface Science, 2007, 253, 7937-7941.	6.1	31
40	Blood, urine and semen Volatile Organic Compound (VOC) pattern analysis for assessing health environmental impact in highly polluted areas in Italy. Environmental Pollution, 2021, 286, 117410.	7.5	28
41	A study of the catalytic activity and sensitivity to different alcohols of CeO2–Fe2O3 thin films. Sensors and Actuators B: Chemical, 2005, 111-112, 78-83.	7.8	27
42	Titanium dioxide thin films prepared by seeded supersonic beams for gas sensing applications. Sensors and Actuators B: Chemical, 2004, 100, 177-184.	7.8	24
43	Nanostructured TiO2 thin films prepared by supersonic beams and their application in a sensor array for the discrimination of VOC. Sensors and Actuators B: Chemical, 2003, 92, 292-302.	7.8	23
44	Analysis of dry salami by means of an electronic nose and correlation with microbiological methods. Sensors and Actuators B: Chemical, 2003, 95, 123-131.	7.8	23
45	Growth of titanium dioxide films by cluster supersonic beams for VOC sensing applications. IEEE Sensors Journal, 2003, 3, 199-205.	4.7	23
46	Investigation of the Gas-Sensing Performance of Electrospun TiO <sub>2</sub> Nanofiber-Based Sensors for Ethanol Sensing. IEEE Sensors Journal, 2018, 18, 7365-7374.	4.7	22
47	Role of osmium in the electrical transport mechanism of polycrystalline tin oxide thin films. Applied Physics Letters, 2004, 84, 744-746.	3.3	21
48	A CMOS integrated interface circuit for metal-oxide gas sensors. Sensors and Actuators B: Chemical, 2009, 142, 82-89.	7.8	21
49	HS-SPME-GC-MS metabolomics approach for sperm quality evaluation by semen volatile organic compounds (VOCs) analysis. Biomedical Physics and Engineering Express, 2018, 5, 015006.	1.2	21
50	Influence of electrodes ageing on the properties of the gas sensors based on SnO2. Sensors and Actuators B: Chemical, 2006, 115, 396-402.	7.8	20
51	On the characterisation and gas sensing properties of Cu(II) tetra(alkylamino carbonyl) phthalocyanine LB films. Thin Solid Films, 1998, 327-329, 465-468.	1.8	19
52	Application of a semiconductor sol–gel sensor array to the discrimination of pollutants in air. Thin Solid Films, 2001, 391, 314-319.	1.8	17
53	A 450-\$mu\$ A 128-dB Dynamic Range A/D CMOS Interface for MOX Gas Sensors. IEEE Sensors Journal, 2019, 19, 12069-12078.	4.7	17
54	Preparation and characterization of nanostructured materials for an artificial olfactory sensing system. Sensors and Actuators B: Chemical, 2002, 84, 55-59.	7.8	16

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55	A Low-Cost Breath Analyzer Module in Domiciliary Non-Invasive Mechanical Ventilation for Remote COPD Patient Monitoring. Sensors, 2020, 20, 653.	3.8	16
56	A SnO2 microsensor device for sub-ppm NO2 detection. Sensors and Actuators B: Chemical, 1999, 58, 552-555.	7.8	14
57	Monitoring the drying process of lasagna pasta through a novel sensing device-based method. Journal of Food Engineering, 2005, 69, 51-59.	5.2	14
58	Hall effect measurements in gas sensors based on nanosized os-doped sol-gel derived SnO/sub 2/ thin films. IEEE Sensors Journal, 2003, 3, 827-834.	4.7	13
59	Nanogap Sensors Decorated with SnO <sub>2</sub> Nanoparticles Enable Low-Temperature Detection of Volatile Organic Compounds. ACS Applied Nano Materials, 2020, 3, 3337-3346.	5.0	13
60	Exhaled breath monitoring during home ventilo-therapy in COPD patients by a new distributed tele-medicine system. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 4419-4427.	4.9	11
61	A novel human biomonitoring study by semiconductor gas sensors in Exposomics: investigation of health risk in contaminated sites. Environmental Pollution, 2022, 304, 119119.	7.5	11
62	Integrated read-out and temperature control interface with digital I/O for a gas-sensing system based on a SnO <inf>2</inf> microhotplate thin film gas sensor. , 2008, , .		10
63	A 296 nJ Energy-per-Measurement Relaxation Oscillator-Based Analog Front-End for Chemiresistive Sensors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1123-1133.	5.4	10
64	Wafer-Level Fabrication and Gas Sensing Properties of miniaturized gas sensors based on Inductively Coupled Plasma Deposited Tin Oxide Nanorods. Procedia Chemistry, 2009, 1, 196-199.	0.7	9
65	Performance of Machine Olfaction: Effect of Uniqueness of the Initial Data and Information Coding on the Discrimination Ability of Multisensor Arrays. IEEE Sensors Journal, 2011, 11, 649-656.	4.7	8
66	A Simulation Study of an Optimized Impedance Spectroscopy Approach for Gas Sensors. , 2019, , .		8
67	Human Biomonitoring of Environmental and Occupational Exposures by GC-MS and Gas Sensor Systems: A Systematic Review. International Journal of Environmental Research and Public Health, 2021, 18, 10236.	2.6	8
68	Au-NiO nanocrystalline thin films for sensor application. Journal of Physics: Conference Series, 2007, 61, 435-439.	0.4	6
69	Effect of top-down nanomachining on electrical conduction properties of TiO2nanostructure-based chemical sensors. Nanotechnology, 2012, 23, 095302.	2.6	6
70	A smart device for supporting mechanical ventilo-therapy. , 2018, , .		6
71	<title>Nanoparticle thin films deposited by MAPLE for sensor applications</title> . Proceedings of SPIE, 2008, ,	0.8	5
72	Electrical characterization of a pig odorant binding protein by Impedance Spectroscopy. , 2009, , .		5

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73	Design of an Electronic Nose for Selective Phosphine Detection in Cereals. Sensor Letters, 2006, 4, 229-234.	0.4	5
74	Evaluation of the Volatile Organic Compounds Released from Peripheral Blood Mononuclear Cells and THP1 Cells Under Normal and Proinflammatory Conditions. Lecture Notes in Electrical Engineering, 2018, , 269-277.	0.4	5
75	Nonaqueous synthesis of high-purity indium and tin oxide nanocrystals and their application as gas sensors. , 0, , .		4
76	Application of a gas sensors array to the detection of fuel as contamination defect in engine oil. , 2008, , .		4
77	In vitro profiling of endothelial volatile organic compounds under resting and pro-inflammatory conditions. Metabolomics, 2019, 15, 132.	3.0	4
78	A Smart Breath Analyzer for Monitoring Home Mechanical Ventilated Patients. Lecture Notes in Electrical Engineering, 2019, , 465-471.	0.4	4
79	Gas microsensor array for breath analysis: An explorative study of smoking status risk. , 2011, , .		3
80	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
81	A Novel Tele-Medicine System to Improve Therapy Monitoring in Chronic Respiratory Diseases. Lecture Notes in Electrical Engineering, 2019, , 201-205.	0.4	2
82	Double Approach to Study VOC Composition in Biofluids of Young Men Living in the "Land of Fires―in Campania Region. Lecture Notes in Electrical Engineering, 2020, , 103-109.	0.4	2
83	Electrical and Morphological Characterization of TiO2 Electrospun Nanofibers. Lecture Notes in Electrical Engineering, 2014, , 103-107.	0.4	2
84	Odorant Binding Proteins as Sensing Layers for Novel Gas Biosensors: An Impedance Spectroscopy Characterization. Lecture Notes in Electrical Engineering, 2011, , 317-324.	0.4	2
85	Sol-Gel Synthesis and Gas Sensing Properties of In <sub>2</sub> 0 <sub>3</sub> Thin Films. , 2001, , .		2
86	ANALYSIS OF DRY SALAMI BY MEANS OF AN ELECTRONIC NOSE AND CORRELATION WITH MICROBIOLOGICAL AND ANALYTICAL METHODS. , 2002, , .		2
87	OPTICAL SENSING PROPERTIES OF PHTHALOCYANINES THIN FILMS IN ARRAY CONFIGURATION AND THEIR APPLICATION IN VOCS DETECTION. , 2004, , .		2
88	Integration of SnO 2 sol-gel processes to gas sensor microfabrication: H2 and CO sensitivity evaluation. , 1999, , .		1
89	Nanostructured TiO/sub 2/ thin films prepared by supersonic beams and their application in a sensor array for the discrimination of VOC. , 0, , .		1
90	PIR fiber sensing in 4- to $18\cdot \hat{l}$ /4m range for flexible IR imaging and process IR spectroscopy. , 2004, , .		1

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91	167 Detection of NH[sub 3], DMA and TMA by a metal oxide gas sensor array for fish freshness evaluation. , 2009, , .		1
92	138 Electrical Impedance Spectroscopy of a Pig Odorant Binding Protein immobilized onto gold interdigited microelectrodes: an ab-initio study. , 2009, , .		1
93	Reproducibility and Uniqueness of Information Coding as Key Factors For Array Optimization. , 2009, , .		1
94	Fabrication at wafer level of micromachined gas sensors based on Sno <inf>2</inf> nanorods deposited by PECVD and gas sensing characteristics. , 2011, , .		1
95	Sensitivity and long-term stability of γ-Fe <inf>2</inf> O <inf>3</inf> and CoFe <inf>2</inf> O <inf>4</inf> nanoparticle gas sensors for NO <inf>2</inf> , CO and acetone sensing — A comparative study. , 2014, , .		1
96	Multi-Sensors Integration in a Human Gut-On-Chip Platform. Proceedings (mdpi), 2018, 2, 1022.	0.2	1
97	100 nm-Gap Fingers Dielectrophoresis Functionalized MOX Gas Sensor Array for Low Temperature VOCs Detection. Proceedings (mdpi), 2018, 2, .	0.2	1
98	Human Organ-on-a-Chip: Around the Intestine Bends. Lecture Notes in Electrical Engineering, 2019, , 181-188.	0.4	1
99	Breath Analysis by a GC/MS Coupled to a Gas Sensor Detector. Lecture Notes in Electrical Engineering, 2018, , 267-275.	0.4	1
100	Gas mixture analysis by a micro-hotplates gas sensors array. , 2000, , .		1
101	EFFECT OF $\hat{1}^3$ -Fe2O3/In2O3 NANO-HETEROSTRUCTURE ON ITS SENSITIVITY TO METHANE. , 2009, , .		1
102	Atomic force microscopy characterization of sputtered vanadium oxide thin films grown on Al 2 O 3 substrate. Applied Physics A: Materials Science and Processing, 1998, 66, S1175-S1178.	2.3	0
103	Structural and functional properties of SnO/sub 2/ sol-gel derived thin films for integrated gas sensors. , 0, , .		0
104	ANALYSIS OF PEACHES RIPENESS BY AN ELECTRONIC NOSE AND NEAR-INFRARED SPECTROSCOPY. , 2002, , .		0
105	Influence of electrodes ageing on the responses of SnO/sub 2/ sol-gel sensors. , 0, , .		0
106	NiO thin films for gas sensing applications. , 2003, , .		0
107	Gas sensing properties of SUMBE growth hybrid nanostructured thin films. , 0, , .		0
108	ZnFe2O4 thin films as NO2 sensors for car ventilation system control. , 2003, , .		0

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109	METHANOL GAS SENSING PROPERTIES OF CeO2-Fe2O3 THIN FILMS. , 2004, , .		Ο
110	Novel Multisensor Miniaturized Hybrid System for Olive Oil Evaluation. , 0, , .		0
111	Gas-Sensor Interface Circuit Based on Calibration Free Novel Frequency Measurement Approach with 16-Bit Digital Output. , 2006, , .		0
112	NiO nanostructured films with Pt coating prepared by magnetron sputtering. European Physical Journal D, 2006, 56, B1192-B1198.	0.4	0
113	A novel method based on gas microsensors to analyze diesel engine oil contaminated by diluent unburned diesel fuel. , 2006, , .		0
114	Detection of unburned fuel as contaminant in engine oil by a gas microsensor array. , 2007, , .		0
115	Virtual Olfactory Device In EEG And Olfactory Conditioning Task: an OERP Study. Lecture Notes in Electrical Engineering, 2018, , 315-321.	0.4	0
116	Iron Oxides Nanoparticles Langmuir-Schaeffer Multilayers for Chemoresistive Gas Sensing. Lecture Notes in Electrical Engineering, 2018, , 66-72.	0.4	0
117	Seminal VOCs Analysis Investigating Sperm Quality Decline—New Studies to Improve Male Fertility Contrasting Population Ageing. Lecture Notes in Electrical Engineering, 2019, , 501-508.	0.4	0
118	Analysis of milk ageing by a sol-gel sensors array. , 2000, , .		0
119	CHARACTERIZATION AND GAS SENSING PROPERTIES OF NIO THIN FILMS. , 2004, , .		0
120	EMPLOYMENT OF PHTHALOCYANINE LB FILMS IN PIEZOELECTRIC CHEMICAL SENSORS. , 2004, , .		0
121	INFLUENCE OF ELECTRODES AGING ON THE RESPONSES OF SNO2 SOL-GEL SENSORS. , 2004, , .		0
122	ELECTRONIC NOSE AS USEFUL TOOL COMPLEMENTARY TO CONVENTIONAL TECHNIQUES FOR EVALUATING FOOD QUALITY. , 2004, , .		0
123	FIRB "SQUARE" PROJECT: NANO-STRUCTURED SENSORS FOR THE DETECTION OF THE POLLUTING IC ENGINE EXHAUST GASES AND FOR INDOOR AIR QUALITY MONITORING. , 2008, , .		0
124	Preparation and Electrical-Functional Characterization of Gas Sensors Based on TiO2 Nanometric Strips Using Impedance Spectroscopy. Lecture Notes in Electrical Engineering, 2010, , 71-75.	0.4	0
125	Remote Monitoring of COPD Patients During Non-invasive Mechanical Ventilation by a New Tele-medicine Device. Lecture Notes in Electrical Engineering, 2020, , 75-81.	0.4	0

A Flexible Data Acquisition System for Aerospace Applications. , 2021, , .

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#	Article	IF	CITATIONS
127	An Integrated Multi-Order Digital Control Unit for Maximum Length Sequence Circulant Matrix Generation. , 2022, , .		0