

Barbara Fabbri

List of Publications by Year in descending order

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62
papers

763
citations

471509

17
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526287

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62
all docs

62
docs citations

62
times ranked

889
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Sulfides as Sensing Materials for Chemoresistive Gas Sensors. <i>Sensors</i> , 2016, 16, 296.	3.8	76
2	ZnO and Au/ZnO thin films: Room-temperature chemoresistive properties for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 1085-1094.	7.8	54
3	Tin(IV) sulfide nanorods as a new gas sensing material. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 827-833.	7.8	51
4	Electrical conductivity of CdS films for gas sensing: Selectivity properties to alcoholic chains. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 504-510.	7.8	42
5	Chemoresistive properties of photo-activated thin and thick ZnO films. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 1251-1256.	7.8	40
6	High-sensitivity detection of acetaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 402-405.	7.8	38
7	Chemoresistive Gas Sensors for the Detection of Colorectal Cancer Biomarkers. <i>Sensors</i> , 2014, 14, 18982-18992.	3.8	33
8	Modelling Soil Water Content in a Tomato Field: Proximal Gamma Ray Spectroscopy and Soil "Crop System Models. <i>Agriculture (Switzerland)</i> , 2018, 8, 60.	3.1	28
9	Air Stable Nickel-Decorated Black Phosphorus and Its Room-Temperature Chemiresistive Gas Sensor Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44711-44722.	8.0	26
10	Development and characterization of WO ₃ nanoflakes for selective ethanol sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130593.	7.8	26
11	Metal Sulfides as a New Class of Sensing Materials. <i>Procedia Engineering</i> , 2015, 120, 138-141.	1.2	25
12	Tunable formation of nanostructured SiC/SiOC core-shell for selective detection of SO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127485.	7.8	25
13	Detection of colorectal cancer biomarkers in the presence of interfering gases. <i>Sensors and Actuators B: Chemical</i> , 2015, 218, 289-295.	7.8	24
14	Correlation of gaseous emissions to water stress in tomato and maize crops: From field to laboratory and back. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127227.	7.8	24
15	Nanostructured SmFeO ₃ Gas Sensors: Investigation of the Gas Sensing Performance Reproducibility for Colorectal Cancer Screening. <i>Sensors</i> , 2020, 20, 5910.	3.8	24
16	Reproducibility tests with zinc oxide thick-film sensors. <i>Ceramics International</i> , 2020, 46, 6847-6855.	4.8	23
17	Resonant photoactivation of cadmium sulfide and its effect on the surface chemical activity. <i>Applied Physics Letters</i> , 2014, 104, 222102.	3.3	20
18	Preventive screening of colorectal cancer with a device based on chemoresistive sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1098-1101.	7.8	17

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19	Aza-crown-ether functionalized graphene oxide for gas sensing and cation trapping applications. <i>Materials Research Express</i> , 2019, 6, 075603.	1.6	17
20	Array of sensors for detection of gaseous malodors in organic decomposition products. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 349-354.	7.8	15
21	Chemoresistive Gas Sensor based on SiC Thick Film: Possible Distinctive Sensing Properties Between H ₂ S and SO ₂ . <i>Procedia Engineering</i> , 2016, 168, 276-279.	1.2	15
22	Design of a Metal-Oxide Solid Solution for Sub-ppm H ₂ Detection. <i>ACS Sensors</i> , 2022, 7, 573-583.	7.8	13
23	Nanostructured Chemoresistive Sensors for Oncological Screening and Tumor Markers Tracking: Single Sensor Approach Applications on Human Blood and Cell Samples. <i>Sensors</i> , 2020, 20, 1411.	3.8	12
24	Investigation on Sensing Performance of Highly Doped Sb/SnO ₂ . <i>Sensors</i> , 2022, 22, 1233.	3.8	12
25	Photo-activation of Cadmium Sulfide Films for Gas Sensing. <i>Procedia Engineering</i> , 2014, 87, 140-143.	1.2	10
26	Design and validation of a novel operando spectroscopy reaction chamber for chemoresistive gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 130012.	7.8	10
27	Crystalline Microporous Organosilicates with Reversed Functionalities of Organic and Inorganic Components for Room-Temperature Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24812-24820.	8.0	9
28	Electrical, Optical and Sensing Properties of Photo-activated ZnO Thin Films. <i>Procedia Engineering</i> , 2014, 87, 148-151.	1.2	8
29	Neoplasms and metastasis detection in human blood exhalations with a device composed by nanostructured sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 271, 203-214.	7.8	8
30	Elucidating the Ambient Stability and Gas Sensing Mechanism of Nickel-Decorated Phosphorene for NO ₂ Detection: A First-Principles Study. <i>ACS Omega</i> , 2022, 7, 9808-9817.	3.5	8
31	Tin (IV) Sulfide chemoresistivity: A possible new gas sensing material. , 2015, , .		4
32	Development of a Sensor Array Based on Pt, Pd, Ag and Au Nanocluster Decorated SnO ₂ for Precision Agriculture. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1550-1550.	0.0	4
33	Development of a dedicated instrumentation for electrical and thermal characterization of chemiresistive gas sensors. <i>Review of Scientific Instruments</i> , 2021, 92, 074702.	1.3	4
34	Detection of Colorectal Cancer Biomarkers in the Presence of Interfering Gases. <i>Procedia Engineering</i> , 2014, 87, 596-599.	1.2	3
35	First-Principles Study of Electronic Conductivity, Structural and Electronic Properties of Oxygen-Vacancy-Defected SnO ₂ . <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 2633-2640.	0.9	3
36	Influence of Oxygen Vacancies in Gas Sensors Based on Metal-Oxide Semiconductors: A First-Principles Study. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 309-314.	0.4	3

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37	Nanostructured Chemoresistive Sensors for Oncological Screening: Preliminary Study with Single Sensor Approach on Human Blood Samples. Proceedings (mdpi), 2019, 14, 34.	0.2	2
38	Gas Sensing Properties Comparison between SnO ₂ and Highly Antimony-Doped SnO ₂ materials. ECS Meeting Abstracts, 2021, MA2021-01, 1435-1435.	0.0	2
39	Glyphosate Detection: An Innovative Approach by Using Chemoresistive Gas Sensors. Proceedings (mdpi), 2018, 2, 910.	0.2	1
40	A New Method to Prepare Few-Layers of Nanoclusters Decorated Graphene: Nb ₂ O ₅ /Graphene and Its Gas Sensing Properties. Proceedings (mdpi), 2018, 2, .	0.2	1
41	The role of substrate materials on stabilization of CdO, 2CdO·CdSO ₄ and 2CdO·2CdO·CdSO ₄ from CdS powder film annealed in air. Materials Chemistry and Physics, 2021, 257, 123251.	4.0	1
42	Synthesis, Material and Electrical Characterization Combined with DFT Calculations of Reduced SnO _{2-x} . ECS Meeting Abstracts, 2021, MA2021-01, 1492-1492.	0.0	1
43	Sensing of gaseous malodors characteristic of landfills and waste treatment plants. Journal of Sensors and Sensor Systems, 2014, 3, 61-67.	0.9	1
44	Mesoporous silicon gas sensors: design, fabrication and conduction model. , 2015, , .		0
45	Devices for Screening and Monitoring of Tumors Based on Chemoresistive Sensors. Procedia Engineering, 2016, 168, 113-116.	1.2	0
46	Silicon Carbide: A Gas Sensing Material for Selective Detection of SO ₂ . Proceedings (mdpi), 2017, 1, .	0.2	0
47	On the Optimization of a MEMS Device for Chemoresistive Gas Sensors. Proceedings (mdpi), 2017, 1, 746.	0.2	0
48	Sustainable Water Management: Sensors for Precision Farming. Proceedings (mdpi), 2017, 1, 780.	0.2	0
49	Room Temperature Chemoresistive Gas Sensor Based on Organic-Functionalized Graphene Oxide. Proceedings (mdpi), 2017, 1, 805.	0.2	0
50	Eni Carbon Silicates: Innovative Hybrid Materials for Room-Temperature Gas Sensing. Proceedings (mdpi), 2017, 1, 322.	0.2	0
51	Influence of Oxygen Vacancies in Gas Sensors Based on Tin Dioxide Nanostructure: A First Principles Study. Proceedings (mdpi), 2019, 14, .	0.2	0
52	Elaboration and Characterization of SnO ₂ Doped TiO ₂ Gas Sensors Deposited through Dip and Spin Coating Methods. Proceedings (mdpi), 2019, 14, 23.	0.2	0
53	Water Stress Assessment through Gaseous Emissions Monitoring: A Case of Study in Tomato Fields. ECS Meeting Abstracts, 2021, MA2021-01, 1551-1551.	0.0	0
54	(Sn,Ti,Nb) _x O ₂ Solid Solution: An Innovative Nanostructured Material and Its Chemoresistive Properties. ECS Meeting Abstracts, 2021, MA2021-01, 1432-1432.	0.0	0

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55	Nickel-Decorated Black Phosphorus for Room Temperature NO ₂ Detection. ECS Meeting Abstracts, 2021, MA2021-01, 1704-1704.	0.0	0
56	Eni Carbon Silicates: Innovative Hybrid Materials for Room-Temperature Gas Sensing. Proceedings (mdpi), 2017, 1, 1372.	0.2	0
57	Eni Carbon Silicates: Innovative Hybrid Materials for Room-Temperature Gas Sensing. Proceedings (mdpi), 2017, 1, 1372.	0.2	0
58	Bridging or in-Plane Oxygen Vacancies for a High-Performance Chemoresistive Gas Sensors? a First-Principles Study. ECS Meeting Abstracts, 2020, MA2020-01, 2111-2111.	0.0	0
59	Development of a Pt, Pd, Ag and Au Nanocluster Decorated SnO ₂ Sensor Array for Precision Agriculture. ECS Meeting Abstracts, 2020, MA2020-01, 2248-2248.	0.0	0
60	Nickel-Decorated Black Phosphorus for Room Temperature NO ₂ detection. ECS Meeting Abstracts, 2020, MA2020-01, 2439-2439.	0.0	0
61	Water Stress Assessment through Gaseous Emissions Monitoring: A Case of Study in Tomato and Maize Fields. ECS Meeting Abstracts, 2020, MA2020-01, 2216-2216.	0.0	0
62	Gas Sensing Properties Comparison between SnO ₂ and Highly Antimony-Doped SnO ₂ Materials. ECS Meeting Abstracts, 2020, MA2020-01, 2077-2077.	0.0	0