

# Barbara Fabbri

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45 papers	502 citations	14 h-index	21 g-index
62 ext. papers	626 ext. citations	4.2 avg, IF	3.34 L-index

#	Paper	IF	Citations
45	Elucidating the Ambient Stability and Gas Sensing Mechanism of Nickel-Decorated Phosphorene for NO Detection: A First-Principles Study.. <i>ACS Omega</i> , <b>2022</b> , 7, 9808-9817	3.9	1
44	First-Principles Study of Electronic Conductivity, Structural and Electronic Properties of Oxygen-Vacancy-Defected SnO <sub>2</sub> <i>Journal of Nanoscience and Nanotechnology</i> , <b>2021</b> , 21, 2633-2640	1.3	1
43	Synthesis, Material and Electrical Characterization Combined with DFT Calculations of Reduced SnO <sub>2-x</sub> . <i>ECS Meeting Abstracts</i> , <b>2021</b> , MA2021-01, 1492-1492	0	1
42	The role of substrate materials on stabilization of CdO, 2CdO/CdSO <sub>4</sub> and 2CdS/2CdO/CdSO <sub>4</sub> from CdS powder film annealed in air. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 257, 123251	4.4	0
41	Development of a dedicated instrumentation for electrical and thermal characterization of chemiresistive gas sensors. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 074702	1.7	1
40	Design and validation of a novel operando spectroscopy reaction chamber for chemoresistive gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 341, 130012	8.5	3
39	Air Stable Nickel-Decorated Black Phosphorus and Its Room-Temperature Chemiresistive Gas Sensor Capabilities. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 44711-44722	9.5	10
38	Development and characterization of WO <sub>3</sub> nanoflakes for selective ethanol sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 347, 130593	8.5	6
37	Nanostructured Chemoresistive Sensors for Oncological Screening and Tumor Markers Tracking: Single Sensor Approach Applications on Human Blood and Cell Samples. <i>Sensors</i> , <b>2020</b> , 20,	3.8	4
36	Influence of Oxygen Vacancies in Gas Sensors Based on Metal-Oxide Semiconductors: A First-Principles Study. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 309-314	0.2	1
35	Tunable formation of nanostructured SiC/SiOC core-shell for selective detection of SO <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 305, 127485	8.5	16
34	Reproducibility tests with zinc oxide thick-film sensors. <i>Ceramics International</i> , <b>2020</b> , 46, 6847-6855	5.1	16
33	Nanostructured SmFeO Gas Sensors: Investigation of the Gas Sensing Performance Reproducibility for Colorectal Cancer Screening. <i>Sensors</i> , <b>2020</b> , 20,	3.8	10
32	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> , <b>2020</b> , 303, 127227	8.5	13
31	Elaboration and Characterization of SnO <sub>2</sub> Doped TiO <sub>2</sub> Gas Sensors Deposited through Dip and Spin Coating Methods. <i>Proceedings (mdpi)</i> , <b>2019</b> , 14, 23	0.3	
30	Aza-crown-ether functionalized graphene oxide for gas sensing and cation trapping applications. <i>Materials Research Express</i> , <b>2019</b> , 6, 075603	1.7	12
29	Nanostructured Chemoresistive Sensors for Oncological Screening: Preliminary Study with Single Sensor Approach on Human Blood Samples. <i>Proceedings (mdpi)</i> , <b>2019</b> , 14, 34	0.3	1

28	Influence of Oxygen Vacancies in Gas Sensors Based on Tin Dioxide Nanostructure: A First Principles Study. <i>Proceedings (mdpi)</i> , <b>2019</b> , 14, 14	0.3	
27	Modelling Soil Water Content in a Tomato Field: Proximal Gamma Ray Spectroscopy and Soil Trop System Models. <i>Agriculture (Switzerland)</i> , <b>2018</b> , 8, 60	3	18
26	Glyphosate Detection: An Innovative Approach by Using Chemoresistive Gas Sensors. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 910	0.3	
25	A New Method to Prepare Few-Layers of Nanoclusters Decorated Graphene: Nb <sub>2</sub> O <sub>5</sub> /Graphene and Its Gas Sensing Properties. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 1047	0.3	1
24	Neoplasms and metastasis detection in human blood exhalations with a device composed by nanostructured sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 271, 203-214	8.5	4
23	Crystalline Microporous Organosilicates with Reversed Functionalities of Organic and Inorganic Components for Room-Temperature Gas Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24812-24820	9.5	8
22	Preventive screening of colorectal cancer with a device based on chemoresistive sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 238, 1098-1101	8.5	14
21	Silicon Carbide: A Gas Sensing Material for Selective Detection of SO <sub>2</sub> . <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 745	0.3	
20	On the Optimization of a MEMS Device for Chemoresistive Gas Sensors. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 746	0.3	
19	Sustainable Water Management: Sensors for Precision Farming. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 780	0.3	
18	Tin(IV) sulfide nanorods as a new gas sensing material. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 223, 827-833	8.5	42
17	ZnO and Au/ZnO thin films: Room-temperature chemoresistive properties for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 237, 1085-1094	8.5	39
16	Chemoresistive properties of photo-activated thin and thick ZnO films. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 222, 1251-1256	8.5	37
15	Metal Sulfides as Sensing Materials for Chemoresistive Gas Sensors. <i>Sensors</i> , <b>2016</b> , 16, 296	3.8	57
14	Chemoresistive Gas Sensor based on SiC Thick Film: Possible Distinctive Sensing Properties Between H <sub>2</sub> S and SO <sub>2</sub> . <i>Procedia Engineering</i> , <b>2016</b> , 168, 276-279		9
13	Devices for Screening and Monitoring of Tumors Based on Chemoresistive Sensors. <i>Procedia Engineering</i> , <b>2016</b> , 168, 113-116		
12	Detection of colorectal cancer biomarkers in the presence of interfering gases. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 218, 289-295	8.5	19
11	Tin (IV) Sulfide chemoresistivity: A possible new gas sensing material <b>2015</b> ,		3

10	Metal Sulfides as a New Class of Sensing Materials. <i>Procedia Engineering</i> , <b>2015</b> , 120, 138-141		21
9	Electrical conductivity of CdS films for gas sensing: Selectivity properties to alcoholic chains. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 207, 504-510	8.5	33
8	Photo-activation of Cadmium Sulfide Films for Gas Sensing. <i>Procedia Engineering</i> , <b>2014</b> , 87, 140-143		6
7	Detection of Colorectal Cancer Biomarkers in the Presence of Interfering Gases. <i>Procedia Engineering</i> , <b>2014</b> , 87, 596-599		2
6	Chemoresistive gas sensors for the detection of colorectal cancer biomarkers. <i>Sensors</i> , <b>2014</b> , 14, 18982-928	3.2	28
5	Resonant photoactivation of cadmium sulfide and its effect on the surface chemical activity. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 222102	3.4	17
4	Electrical, Optical and Sensing Properties of Photo-activated ZnO Thin Films. <i>Procedia Engineering</i> , <b>2014</b> , 87, 148-151		4
3	Sensing of gaseous malodors characteristic of landfills and waste treatment plants. <i>Journal of Sensors and Sensor Systems</i> , <b>2014</b> , 3, 61-67	1.6	1
2	High-sensitivity detection of acetaldehyde. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 174, 402-405	8.5	31
1	Array of sensors for detection of gaseous malodors in organic decomposition products. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 174, 349-354	8.5	10