

Matteo Valt

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.

28 papers	167 citations	9 h-index	12 g-index
45 ext. papers	244 ext. citations	3.4 avg, IF	2.59 L-index

#	Paper	IF	Citations
28	Elucidating the Ambient Stability and Gas Sensing Mechanism of Nickel-Decorated Phosphorene for NO Detection: A First-Principles Study.. <i>ACS Omega</i> , 2022 , 7, 9808-9817	3.9	1
27	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	1.3	1
26	Synthesis, Material and Electrical Characterization Combined with DFT Calculations of Reduced SnO ₂ -x. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-01, 1492-1492	0	1
25	The role of substrate materials on stabilization of CdO, 2CdO/CdSO ₄ and 2CdS/2CdO/CdSO ₄ from CdS powder film annealed in air. <i>Materials Chemistry and Physics</i> , 2021 , 257, 123251	4.4	0
24	Development of a dedicated instrumentation for electrical and thermal characterization of chemiresistive gas sensors. <i>Review of Scientific Instruments</i> , 2021 , 92, 074702	1.7	1
23	Design and validation of a novel operando spectroscopy reaction chamber for chemoresistive gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2021 , 341, 130012	8.5	3
22	Air Stable Nickel-Decorated Black Phosphorus and Its Room-Temperature Chemiresistive Gas Sensor Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44711-44722	9.5	10
21	Development and characterization of WO ₃ nanoflakes for selective ethanol sensing. <i>Sensors and Actuators B: Chemical</i> , 2021 , 347, 130593	8.5	6
20	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,	3.8	4
19	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	0.2	1
18	Tunable formation of nanostructured SiC/SiOC core-shell for selective detection of SO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127485	8.5	16
17	Reproducibility tests with zinc oxide thick-film sensors. <i>Ceramics International</i> , 2020 , 46, 6847-6855	5.1	16
16	Nanostructured SmFeO Gas Sensors: Investigation of the Gas Sensing Performance Reproducibility for Colorectal Cancer Screening. <i>Sensors</i> , 2020 , 20,	3.8	10
15	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	8.5	13
14	Elaboration and Characterization of SnO ₂ Doped TiO ₂ Gas Sensors Deposited through Dip and Spin Coating Methods. <i>Proceedings (mdpi)</i> , 2019 , 14, 23	0.3	
13	Development of MEMS MOS gas sensors with CMOS compatible PECVD inter-metal passivation. <i>Sensors and Actuators B: Chemical</i> , 2019 , 292, 225-232	8.5	18
12	Aza-crown-ether functionalized graphene oxide for gas sensing and cation trapping applications. <i>Materials Research Express</i> , 2019 , 6, 075603	1.7	12

11	Nanostructured Chemoresistive Sensors for Oncological Screening: Preliminary Study with Single Sensor Approach on Human Blood Samples. <i>Proceedings (mdpi)</i> , 2019 , 14, 34	0.3	1
10	Influence of Oxygen Vacancies in Gas Sensors Based on Tin Dioxide Nanostructure: A First Principles Study. <i>Proceedings (mdpi)</i> , 2019 , 14, 14	0.3	
9	Chemoresistive Nanostructured Sensors for Tumor Pre-Screening. <i>Proceedings (mdpi)</i> , 2019 , 14, 29	0.3	2
8	Detection of Tumor Markers and Cell Metabolites in Cell Cultures, Using Nanostructured Chemoresistive Sensors. <i>Lecture Notes in Electrical Engineering</i> , 2018 , 51-58	0.2	
7	Glyphosate Detection: An Innovative Approach by Using Chemoresistive Gas Sensors. <i>Proceedings (mdpi)</i> , 2018 , 2, 910	0.3	
6	A New Method to Prepare Few-Layers of Nanoclusters Decorated Graphene: Nb2O5/Graphene and Its Gas Sensing Properties. <i>Proceedings (mdpi)</i> , 2018 , 2, 1047	0.3	1
5	Silicon Carbide: A Gas Sensing Material for Selective Detection of SO ₂ . <i>Proceedings (mdpi)</i> , 2017 , 1, 745	0.3	
4	On the Optimization of a MEMS Device for Chemoresistive Gas Sensors. <i>Proceedings (mdpi)</i> , 2017 , 1, 746	0.3	
3	Sustainable Water Management: Sensors for Precision Farming. <i>Proceedings (mdpi)</i> , 2017 , 1, 780	0.3	
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	8.5	39
1	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		9