

Matteo Valt

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	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
2	Development of MEMS MOS gas sensors with CMOS compatible PECVD inter-metal passivation. <i>Sensors and Actuators B: Chemical</i> , 2019, 292, 225-232.	7.8	31
3	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
4	Development and characterization of WO ₃ nanoflakes for selective ethanol sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130593.	7.8	26
5	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
6	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
7	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
8	Reproducibility tests with zinc oxide thick-film sensors. <i>Ceramics International</i> , 2020, 46, 6847-6855.	4.8	23
9	Aza-crown-ether functionalized graphene oxide for gas sensing and cation trapping applications. <i>Materials Research Express</i> , 2019, 6, 075603.	1.6	17
10	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
11	Design of a Metal-Oxide Solid Solution for Sub-ppm H ₂ Detection. <i>ACS Sensors</i> , 2022, 7, 573-583.	7.8	13
12	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
13	Investigation on Sensing Performance of Highly Doped Sb/SnO ₂ . <i>Sensors</i> , 2022, 22, 1233.	3.8	12
14	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
15	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
16	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
17	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
18	Chemoresistive Nanostructured Sensors for Tumor Pre-Screening. <i>Proceedings (mdpi)</i> , 2019, 14, 29.	0.2	3

#	ARTICLE	IF	CITATIONS
19	First-Principles Study of Electronic Conductivity, Structural and Electronic Properties of Oxygen-Vacancy-Defected SnO ₂ . Journal of Nanoscience and Nanotechnology, 2021, 21, 2633-2640.	0.9	3
20	Influence of Oxygen Vacancies in Gas Sensors Based on Metal-Oxide Semiconductors: A First-Principles Study. Lecture Notes in Electrical Engineering, 2020, , 309-314.	0.4	3
21	Nanostructured Chemoresistive Sensors for Oncological Screening: Preliminary Study with Single Sensor Approach on Human Blood Samples. Proceedings (mdpi), 2019, 14, 34.	0.2	2
22	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
23	Glyphosate Detection: An Innovative Approach by Using Chemoresistive Gas Sensors. Proceedings (mdpi), 2018, 2, 910.	0.2	1
24	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
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. Materials Chemistry and Physics, 2021, 257, 123251.	4.0	1
26	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
27	Silicon Carbide: A Gas Sensing Material for Selective Detection of SO ₂ . Proceedings (mdpi), 2017, 1, .	0.2	0
28	On the Optimization of a MEMS Device for Chemoresistive Gas Sensors. Proceedings (mdpi), 2017, 1, 746.	0.2	0
29	Sustainable Water Management: Sensors for Precision Farming. Proceedings (mdpi), 2017, 1, 780.	0.2	0
30	Room Temperature Chemoresistive Gas Sensor Based on Organic-Functionalized Graphene Oxide. Proceedings (mdpi), 2017, 1, 805.	0.2	0
31	Influence of Oxygen Vacancies in Gas Sensors Based on Tin Dioxide Nanostructure: A First Principles Study. Proceedings (mdpi), 2019, 14, .	0.2	0
32	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
33	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
34	(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
35	Nickel-Decorated Black Phosphorus for Room Temperature NO ₂ Detection. ECS Meeting Abstracts, 2021, MA2021-01, 1704-1704.	0.0	0
36	WO ₃ Nanoparticles and Nanoflakes Based Sensors for Selective Detection of Alcohols. ECS Meeting Abstracts, 2021, MA2021-01, 1437-1437.	0.0	0

#	ARTICLE	IF	CITATIONS
37	Detection of Tumor Markers and Cell Metabolites in Cell Cultures, Using Nanostructured Chemoresistive Sensors. Lecture Notes in Electrical Engineering, 2018, , 51-58.	0.4	0
38	P1DH.7 - Chemoresistive Sensors for Cancer Pre-Screening in Human Tissue. , 2018, , .		0
39	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
40	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
41	Nickel-Decorated Black Phosphorus for Room Temperature NO ₂ detection. ECS Meeting Abstracts, 2020, MA2020-01, 2439-2439.	0.0	0
42	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
43	Chemoresistive Nanostructured Sensors for the Analysis of Tumor Tissues Exhalations. ECS Meeting Abstracts, 2020, MA2020-01, 1935-1935.	0.0	0
44	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
45	Chemoresistive Nanostructured Sensors for the Analysis of Human Tumor Tissue Exhalations. ECS Meeting Abstracts, 2020, MA2020-02, 3340-3340.	0.0	0