

Dario Zappa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2317137/publications.pdf>

Version: 2024-02-01

87
papers

2,283
citations

236925

25
h-index

233421

45
g-index

92
all docs

92
docs citations

92
times ranked

2575
citing authors

#	ARTICLE	IF	CITATIONS
1	“Metal oxide -based heterostructures for gas sensors” A review. <i>Analytica Chimica Acta</i> , 2018, 1039, 1-23.	5.4	270
2	Solid oxide fuel cell: Decade of progress, future perspectives and challenges. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 27643-27674.	7.1	253
3	Metal oxide nanoscience and nanotechnology for chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 3-20.	7.8	153
4	Metal Oxide Gas Sensors, a Survey of Selectivity Issues Addressed at the SENSOR Lab, Brescia (Italy). <i>Sensors</i> , 2017, 17, 714.	3.8	126
5	Branch-like NiO/ZnO heterostructures for VOC sensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 477-485.	7.8	110
6	Functionalised zinc oxide nanowire gas sensors: Enhanced NO ₂ gas sensor response by chemical modification of nanowire surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 368-377.	2.8	69
7	Gold functionalized MoO ₃ nano flakes for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 331-339.	7.8	62
8	Preparation of copper oxide nanowire-based conductometric chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 7-15.	7.8	58
9	Nickel oxide nanowires: vapor liquid solid synthesis and integration into a gas sensing device. <i>Nanotechnology</i> , 2016, 27, 205701.	2.6	57
10	Selective H ₂ S gas sensors based on ohmic hetero-interface of Au-functionalized WO ₃ nanowires. <i>Applied Surface Science</i> , 2022, 571, 151262.	6.1	49
11	Robust Room-Temperature NO ₂ Sensors from Exfoliated 2D Few-Layered CVD-Grown Bulk Tungsten Di-selenide (2H-WSe ₂). <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4316-4329.	8.0	45
12	Thermally oxidized zinc oxide nanowires for use as chemical sensors. <i>Nanotechnology</i> , 2013, 24, 444008.	2.6	41
13	Space-charge-limited current in organic light emitting diodes. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	40
14	Novel insight on the local surface properties of ZnO nanowires. <i>Nanotechnology</i> , 2020, 31, 465705.	2.6	37
15	Detection of food and skin pathogen microbiota by means of an electronic nose based on metal oxide chemiresistors. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1224-1230.	7.8	35
16	Quasi-1D MnO ₂ nanocomposites as gas sensors for hazardous chemicals. <i>Applied Surface Science</i> , 2020, 512, 145667.	6.1	35
17	Tungsten oxide nanowires for chemical detection. <i>Analytical Methods</i> , 2015, 7, 2203-2209.	2.7	34
18	Kelvin probe as an effective tool to develop sensitive p-type CuO gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 1257-1263.	7.8	34

#	ARTICLE	IF	CITATIONS
19	Novel Christmas Branched Like NiO/NiWO ₄ /WO ₃ (pâ€“pâ€“n) Nanowire Heterostructures for Chemical Sensing. <i>Advanced Functional Materials</i> , 2021, 31, 2104416.	14.9	32
20	A Novel Electronic Nose as Adaptable Device to Judge Microbiological Quality and Safety in Foodstuff. <i>BioMed Research International</i> , 2014, 2014, 1-6.	1.9	30
21	Metal oxide nanostructures: preparation, characterization and functional applications as chemical sensors. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1205-1217.	2.8	29
22	Integration of VLS-Grown WO ₃ Nanowires into Sensing Devices for the Detection of H ₂ S and O ₃ . <i>ACS Omega</i> , 2019, 4, 16336-16343.	3.5	28
23	Integration of ZnO and CuO nanowires into a thermoelectric module. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 927-936.	2.8	27
24	One Dimensional ZnO Nanostructures: Growth and Chemical Sensing Performances. <i>Nanomaterials</i> , 2020, 10, 1940.	4.1	27
25	Tin Oxide Nanowires Decorated with Ag Nanoparticles for Visible Light-Enhanced Hydrogen Sensing at Room Temperature: Bridging Conductometric Gas Sensing and Plasmon-Driven Catalysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5026-5031.	3.1	26
26	Sensing Nitrogen Mustard Gas Simulant at the ppb Scale via Selective Dual-Site Activation at Au/Mn ₃ O ₄ Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23692-23700.	8.0	26
27	Molybdenum Dichalcogenides for Environmental Chemical Sensing. <i>Materials</i> , 2017, 10, 1418.	2.9	25
28	Application of a Novel S3 Nanowire Gas Sensor Device in Parallel with GC-MS for the Identification of Rind Percentage of Grated Parmigiano Reggiano. <i>Sensors</i> , 2018, 18, 1617.	3.8	25
29	Copper oxide nanowires prepared by thermal oxidation for chemical sensing. <i>Procedia Engineering</i> , 2011, 25, 753-756.	1.2	23
30	Metal oxide nanowire chemical and biochemical sensors. <i>Journal of Materials Research</i> , 2013, 28, 2911-2931.	2.6	22
31	Surface Properties of SnO ₂ Nanowires Deposited on Si Substrate Covered by Au Catalyst Studies by XPS, TDS and SEM. <i>Nanomaterials</i> , 2018, 8, 738.	4.1	22
32	Synthesis of Nanoporous TiO ₂ with the Use of Diluted Hydrogen Peroxide Solution and Its Application in Gas Sensing. <i>Coatings</i> , 2019, 9, 681.	2.6	21
33	Tailoring the selectivity of ultralow-power heterojunction gas sensors by noble metal nanoparticle functionalization. <i>Nano Energy</i> , 2021, 88, 106241.	16.0	21
34	Optimizing MOX sensor array performances with a reconfigurable self-adaptive temperature modulation interface. <i>Sensors and Actuators B: Chemical</i> , 2021, 333, 129509.	7.8	19
35	Catalyst â€“ Assisted vapor liquid solid growth of $\hat{1}\pm$ -Bi ₂ O ₃ nanowires for acetone and ethanol detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130432.	7.8	18
36	Influence of iron and nitrogen ion beam exposure on the gas sensing properties of CuO nanowires. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128579.	7.8	16

#	ARTICLE	IF	CITATIONS
37	Surface chemistry of SnO ₂ nanowires on Ag-catalyst-covered Si substrate studied using XPS and TDS methods. <i>Nanoscale Research Letters</i> , 2014, 9, 43.	5.7	15
38	Manganese Oxide Nanoarchitectures as Chemoresistive Gas Sensors to Monitor Fruit Ripening. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3025-3030.	0.9	15
39	Electronic nose for the early detection of different types of indigenous mold contamination in green coffee. , 2013, , .		14
40	Shelf Life Study of NiO Nanowire Sensors for NO ₂ Detection. <i>Electronic Materials Letters</i> , 2019, 15, 743-749.	2.2	14
41	Seed-Assisted Growth of TiO ₂ Nanowires by Thermal Oxidation for Chemical Gas Sensing. <i>Nanomaterials</i> , 2020, 10, 935.	4.1	14
42	Hydrogen Gas Sensing Performances of p-Type Mn ₃ O ₄ Nanosystems: The Role of Built-in Mn ₃ O ₄ /Ag and Mn ₃ O ₄ /SnO ₂ Junctions. <i>Nanomaterials</i> , 2020, 10, 511.	4.1	14
43	Seebeck effect in ZnO nanowires for micropower generation. <i>Procedia Engineering</i> , 2011, 25, 1481-1484.	1.2	13
44	Copper Oxide Nanowires for Surface Ionization Based Gas Sensor. <i>Procedia Engineering</i> , 2014, 87, 1023-1026.	1.2	13
45	Nanowire Technology for the Detection of Microorganisms in Potable Water. <i>Procedia Engineering</i> , 2014, 87, 1453-1456.	1.2	13
46	Nickel Oxide Nanowires Growth by VLS Technique for Gas Sensing Application. <i>Procedia Engineering</i> , 2015, 120, 760-763.	1.2	13
47	Low-Power Detection of Food Preservatives by a Novel Nanowire-Based Sensor Array. <i>Foods</i> , 2019, 8, 226.	4.3	13
48	The Influence of Nb on the Synthesis of WO ₃ Nanowires and the Effects on Hydrogen Sensing Performance. <i>Sensors</i> , 2019, 19, 2332.	3.8	13
49	Nanostructured MOS Sensor for the Detection, Follow up, and Threshold Pursuing of <i>Campylobacter Jejuni</i> Development in Milk Samples. <i>Sensors</i> , 2020, 20, 2009.	3.8	13
50	Zinc Oxide Nanowires Deposited on Polymeric Hotplates for Low-power Gas Sensors. <i>Procedia Engineering</i> , 2012, 47, 1137-1140.	1.2	12
51	Planar Thermoelectric Generator based on Metal-Oxide Nanowires for Powering Autonomous Microsystems. <i>Procedia Engineering</i> , 2012, 47, 346-349.	1.2	12
52	Mn ₃ O ₄ Nanomaterials Functionalized with Fe ₂ O ₃ and ZnO: Fabrication, Characterization, and Ammonia Sensing Properties. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901239.	3.7	12
53	Titanium Dioxide Nanostructures Chemical Sensor. <i>Procedia Engineering</i> , 2016, 168, 313-316.	1.2	10
54	Single Metal Oxide Nanowire devices for Ammonia and Other Gases Detection in Humid Atmosphere. <i>Procedia Engineering</i> , 2016, 168, 1052-1055.	1.2	10

#	ARTICLE	IF	CITATIONS
55	Classification of Different Roasting Processes by MOX Nanowire. <i>Procedia Engineering</i> , 2014, 87, 572-575.	1.2	7
56	NiO/ZnO Nanowire-heterostructures by Vapor Phase Growth for Gas Sensing. <i>Procedia Engineering</i> , 2016, 168, 1140-1143.	1.2	7
57	Low Temperature Gas Sensing Properties of Graphene Oxide/SnO ₂ Nanowires Composite for H ₂ . <i>Procedia Engineering</i> , 2016, 168, 305-308.	1.2	7
58	Chemical Gas Sensors Studied at SENSOR Lab, Brescia (Italy): From Conventional to Energy-Efficient and Biocompatible Composite Structures. <i>Sensors</i> , 2020, 20, 579.	3.8	7
59	An Array of MOX Sensors and ANNs to Assess Grated Parmigiano Reggiano Cheese Packsâ€™ Compliance with CFPR Guidelines. <i>Biosensors</i> , 2020, 10, 47.	4.7	7
60	Gas-Sensing Properties of Thermally-Oxidized Metal Oxide Nanowires. <i>Procedia Engineering</i> , 2012, 47, 430-433.	1.2	5
61	P-type CuO Nanowires and thin Film for Highly Sensitive Kelvin Probe Gas Sensing Applications. <i>Procedia Engineering</i> , 2014, 87, 16-19.	1.2	5
62	Tungsten Oxide Nanowires on Micro Hotplates for Gas Sensing Applications. <i>Procedia Engineering</i> , 2015, 120, 439-442.	1.2	5
63	Nanostructures of Tungsten Trioxide, Nickel Oxide and Niobium Oxide for Chemical Sensing Applications. <i>Procedia Engineering</i> , 2015, 120, 803-806.	1.2	5
64	Influence of Nb-doping on Hydrogen Sensing Performance of WO ₃ Nanowires. <i>Procedia Engineering</i> , 2016, 168, 317-320.	1.2	5
65	UV Light Assisted NO ₂ Sensing by SnO ₂ /Graphene Oxide Composite. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	5
66	Self-Test Procedures for Gas Sensors Embedded in Microreactor Systems. <i>Sensors</i> , 2018, 18, 453.	3.8	5
67	Influence of Metal Catalyst on SnO ₂ Nanowires Growth and Gas Sensing Performance. <i>Proceedings (mdpi)</i> , 2017, 1, 460.	0.2	4
68	Detection of microbial contamination in potable water by Nanowire technology. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2014, 7, 1-4.	0.7	4
69	New Sustainable Hybrid Porous Materials for Air Particulate Matter Trapping. <i>Materials Science Forum</i> , 2018, 941, 2237-2242.	0.3	3
70	Physical Vapor Deposition of Copper Oxide Nanowires. <i>Procedia Engineering</i> , 2010, 5, 1051-1054.	1.2	2
71	Tungsten Oxide Nanowires Chemical Sensors. <i>Procedia Engineering</i> , 2014, 87, 696-699.	1.2	2
72	Skin Microbiota Monitoring by Nanowire MOS Sensors. <i>Procedia Engineering</i> , 2015, 120, 756-759.	1.2	2

#	ARTICLE	IF	CITATIONS
73	Small Sensor Sistem S3 device to control the microbial contamination in water. , 2015, , .		2
74	Assessment of Integrated Aerosol Sampling Techniques in Indoor, Confined and Outdoor Environments Characterized by Specific Emission Sources. Applied Sciences (Switzerland), 2021, 11, 4360.	2.5	2
75	NiO-GDC nanowire anodes for SOFCs: novel growth, characterization and cell performance. Materials Advances, 2022, 3, 5922-5929.	5.4	2
76	Niobium Oxide Nanostructures for Chemical Sensing. Procedia Engineering, 2014, 87, 807-810.	1.2	1
77	Synthesis and characterization of Zinc and Tin Oxide nanowires for the detection of Parmigiano Reggiano cheese. , 2015, , .		1
78	Sweat for the Discrimination of Human's Habit using NWs Gas Sensors Technology. Materials Today: Proceedings, 2016, 3, 603-607.	1.8	1
79	Array of Metal Oxide Nanostructures for Nerve Agent Detection and Food Quality. Sensor Letters, 2014, 12, 985-989.	0.4	1
80	Investigation of Seebeck Effect in Metal Oxide Nanowires for Powering Autonomous Microsystems. Lecture Notes in Electrical Engineering, 2014, , 3-7.	0.4	1
81	Metal Oxide Gas Sensors Technologies for Hidden People Detection. , 2014, , .		0
82	Investigation of Seebeck Effect in ZnO Nanowires for Micropower Generation in Autonomous Sensor Systems. Lecture Notes in Electrical Engineering, 2014, , 245-249.	0.4	0
83	Niobium and Tungsten Oxide Nanowires for Chemical Sensor. Procedia Engineering, 2015, 120, 1149-1152.	1.2	0
84	Detection of chlorinated compounds in ground water by a novel electronic nose. , 2015, , .		0
85	Chili Pepper Scent: Study and Recognition with Chemiresistors Array. Proceedings (mdpi), 2017, 1, .	0.2	0
86	3D-Integrated Multi-Sensor Demonstrator System for Environmental Monitoring. , 2019, , .		0
87	Chemical Vapor Deposition: Mn ₃ O ₄ Nanomaterials Functionalized with Fe ₂ O ₃ and ZnO: Fabrication, Characterization, and Ammonia Sensing Properties (Adv. Mater. Interfaces 24/2019). Advanced Materials Interfaces, 2019, 6, 1970151.	3.7	0