

Federica Rigoni

List of Publications by Year in descending order

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36
papers

923
citations

471509

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454955

30
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36
all docs

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docs citations

36
times ranked

1505
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Oxide Gas Sensors, a Survey of Selectivity Issues Addressed at the SENSOR Lab, Brescia (Italy). Sensors, 2017, 17, 714.	3.8	126
2	Enhancing the sensitivity of chemiresistor gas sensors based on pristine carbon nanotubes to detect low-ppb ammonia concentrations in the environment. Analyst, The, 2013, 138, 7392.	3.5	105
3	ZnO-Cu ₂ O core-shell nanowires as stable and fast response photodetectors. Nano Energy, 2018, 51, 308-316.	16.0	94
4	High sensitivity, moisture selective, ammonia gas sensors based on single-walled carbon nanotubes functionalized with indium tin oxide nanoparticles. Carbon, 2014, 80, 356-363.	10.3	86
5	Self-Powered Photodetectors Based on Core-Shell ZnO-Co ₃ O ₄ Nanowire Heterojunctions. ACS Applied Materials & Interfaces, 2019, 11, 23454-23462.	8.0	71
6	Semi-Transparent p-Cu ₂ O/n-ZnO Nanoscale-Film Heterojunctions for Photodetection and Photovoltaic Applications. ACS Applied Nano Materials, 2019, 2, 4358-4366.	5.0	49
7	Decorating vertically aligned MoS ₂ nanoflakes with silver nanoparticles for inducing a bifunctional electrocatalyst towards oxygen evolution and oxygen reduction reaction. Nano Energy, 2021, 81, 105664.	16.0	46
8	Humidity-enhanced sub-ppm sensitivity to ammonia of covalently functionalized single-wall carbon nanotube bundle layers. Nanotechnology, 2017, 28, 255502.	2.6	32
9	Transfer of CVD-grown graphene for room temperature gas sensors. Nanotechnology, 2017, 28, 414001.	2.6	30
10	Tunable Localized Surface Plasmon Resonance and Broadband Visible Photoresponse of Cu Nanoparticles/ZnO Surfaces. ACS Applied Materials & Interfaces, 2018, 10, 40958-40965.	8.0	26
11	Development of low-cost ammonia gas sensors and data analysis algorithms to implement a monitoring grid of urban environmental pollutants. Journal of Environmental Monitoring, 2012, 14, 1565.	2.1	25
12	Controlled synthesis of carbon nanostructures using aligned ZnO nanorods as templates. Carbon, 2012, 50, 5472-5480.	10.3	22
13	Coordination chemistry for antibacterial materials: a monolayer of a Cu ²⁺ 2,2'-bipyridine complex grafted on a glass surface. Dalton Transactions, 2013, 42, 4552.	3.3	21
14	Sustainable Strategies in the Synthesis of Lignin Nanoparticles for the Release of Active Compounds: A Comparison. ChemSusChem, 2020, 13, 4759-4767.	6.8	20
15	Environmental Monitoring of Low-ppb Ammonia Concentrations Based on Single-wall Carbon Nanotube Chemiresistor Gas Sensors: Detection Limits, Response Dynamics, and Moisture Effects. Procedia Engineering, 2014, 87, 716-719.	1.2	19
16	Gas sensing at the nanoscale: engineering SWCNT-ITO nano-heterojunctions for the selective detection of NH ₃ and NO ₂ target molecules. Nanotechnology, 2017, 28, 035502.	2.6	19
17	Improved recovery time and sensitivity to H ₂ and NH ₃ at room temperature with SnO _x vertical nanopillars on ITO. Scientific Reports, 2018, 8, 10028.	3.3	18
18	Local Structure and Point-Defect-Dependent Area-Selective Atomic Layer Deposition Approach for Facile Synthesis of p-Cu ₂ O/n-ZnO Segmented Nanojunctions. ACS Applied Materials & Interfaces, 2018, 10, 37671-37678.	8.0	17

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19	Anomalous gas sensing behaviors to reducing agents of hydrothermally grown Fe_2O_3 nanorods. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1237-1245.	7.8	17
20	Vertically Coupling ZnO Nanorods onto MoS ₂ Flakes for Optical Gas Sensing. <i>Chemosensors</i> , 2020, 8, 19.	3.6	14
21	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
22	A cross-functional nanostructured platform based on carbon nanotube-Si hybrid junctions: where photon harvesting meets gas sensing. <i>Scientific Reports</i> , 2017, 7, 44413.	3.3	10
23	Gas sensing applications of the inverse spinel zinc tin oxide. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 461-469.	4.0	10
24	A simple and efficient visible light photodetector based on Co ₃ O ₄ /ZnO composite. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	8
25	Surface roughness control in nanolaminate coatings of chromium and tungsten nitrides. <i>Micro and Nano Engineering</i> , 2022, 14, 100107.	2.9	5
26	ZnO and SnO ₂ ; one-dimensional sensors for detection of hazardous gases. , 2017, , .		4
27	The Impact of Graphene Oxide on Polycaprolactone PCL Surfaces: Antimicrobial Activity and Osteogenic Differentiation of Mesenchymal Stem Cell. <i>Coatings</i> , 2022, 12, 799.	2.6	4
28	Growth of hybrid carbon nanostructures on iron-decorated ZnO nanorods. <i>Nanotechnology</i> , 2016, 27, 145605.	2.6	3
29	A preliminary evaluation of chemical interaction between sanitizing products and silk. <i>Journal of Cultural Heritage</i> , 2021, 51, 1-13.	3.3	3
30	The beauty of being complex: Prussian blue analogues as selective catalysts and photocatalysts in the degradation of ciprofloxacin. <i>Journal of Catalysis</i> , 2022, 410, 307-319.	6.2	3
31	Large-scale CMOS-compatible process for silicon nanowires growth and BC8 phase formation. <i>Solid-State Electronics</i> , 2021, 186, 108093.	1.4	2
32	Fast-tracking of NH ₃ interaction with ZnO nanorods and C/ZnO hybrid nanostructures by operando spectroscopy. <i>Applied Surface Science</i> , 2022, 590, 153067.	6.1	2
33	Adaptive nanolaminate coating by atomic layer deposition. <i>Thin Solid Films</i> , 2019, 692, 137631.	1.8	1
34	Nanoscale characterization of an all-oxide core-shell nanorod heterojunction using intermodulation atomic force microscopy (AFM) methods. <i>Nanoscale Advances</i> , 2021, 3, 4388-4394.	4.6	1
35	Co/ZnO nanorods system for magnetic gas sensing applications. , 2016, , .		0
36	Graphene plasmon enhanced optical properties in ZnO micro-structures. , 2016, , .		0