

Federica Rigoni

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

923
citations

535685

17
h-index

511568

30
g-index

36
all docs

36
docs citations

36
times ranked

1730
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface roughness control in nanolaminate coatings of chromium and tungsten nitrides. <i>Micro and Nano Engineering</i> , 2022, 14, 100107.	1.4	5
2	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.	3.1	2
3	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.	3.1	3
4	The Impact of Graphene Oxide on Polycaprolactone PCL Surfaces: Antimicrobial Activity and Osteogenic Differentiation of Mesenchymal Stem Cell. <i>Coatings</i> , 2022, 12, 799.	1.2	4
5	Decorating vertically aligned MoS ₂ nanoflakes with silver nanoparticles for inducing a bifunctional electrocatalyst towards oxygen evolution and oxygen reduction reaction. <i>Nano Energy</i> , 2021, 81, 105664.	8.2	46
6	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.	2.2	1
7	A simple and efficient visible light photodetector based on Co ₃ O ₄ /ZnO composite. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	8
8	A preliminary evaluation of chemical interaction between sanitizing products and silk. <i>Journal of Cultural Heritage</i> , 2021, 51, 1-13.	1.5	3
9	Large-scale CMOS-compatible process for silicon nanowires growth and BC8 phase formation. <i>Solid-State Electronics</i> , 2021, 186, 108093.	0.8	2
10	Sustainable Strategies in the Synthesis of Lignin Nanoparticles for the Release of Active Compounds: A Comparison. <i>ChemSusChem</i> , 2020, 13, 4759-4767.	3.6	20
11	Vertically Coupling ZnO Nanorods onto MoS ₂ Flakes for Optical Gas Sensing. <i>Chemosensors</i> , 2020, 8, 19.	1.8	14
12	Adaptive nanolaminate coating by atomic layer deposition. <i>Thin Solid Films</i> , 2019, 692, 137631.	0.8	1
13	Semi-Transparent p-Cu ₂ O/n-ZnO Nanoscale-Film Heterojunctions for Photodetection and Photovoltaic Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 4358-4366.	2.4	49
14	Self-Powered Photodetectors Based on Core-shell ZnO-Co ₃ O ₄ Nanowire Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23454-23462.	4.0	71
15	Tunable Localized Surface Plasmon Resonance and Broadband Visible Photoresponse of Cu Nanoparticles/ZnO Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40958-40965.	4.0	26
16	Local Structure and Point-Defect-Dependent Area-Selective Atomic Layer Deposition Approach for Facile Synthesis of p-Cu ₂ O/n-ZnO Segmented Nanojunctions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37671-37678.	4.0	17
17	ZnO-Cu ₂ O core-shell nanowires as stable and fast response photodetectors. <i>Nano Energy</i> , 2018, 51, 308-316.	8.2	94
18	Improved recovery time and sensitivity to H ₂ and NH ₃ at room temperature with SnO _x vertical nanopillars on ITO. <i>Scientific Reports</i> , 2018, 8, 10028.	1.6	18

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19	Anomalous gas sensing behaviors to reducing agents of hydrothermally grown \pm -Fe ₂ O ₃ nanorods. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1237-1245.	4.0	17
20	Humidity-enhanced sub-ppm sensitivity to ammonia of covalently functionalized single-wall carbon nanotube bundle layers. <i>Nanotechnology</i> , 2017, 28, 255502.	1.3	32
21	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.	1.6	10
22	Gas sensing at the nanoscale: engineering SWCNT-ITO nano-heterojunctions for the selective detection of NH ₃ and NO ₂ target molecules. <i>Nanotechnology</i> , 2017, 28, 035502.	1.3	19
23	Transfer of CVD-grown graphene for room temperature gas sensors. <i>Nanotechnology</i> , 2017, 28, 414001.	1.3	30
24	Gas sensing applications of the inverse spinel zinc tin oxide. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 461-469.	1.9	10
25	ZnO and SnO ₂ ; one-dimensional sensors for detection of hazardous gases. , 2017, , .		4
26	Metal Oxide Gas Sensors, a Survey of Selectivity Issues Addressed at the SENSOR Lab, Brescia (Italy). <i>Sensors</i> , 2017, 17, 714.	2.1	126
27	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
28	Co/ZnO nanorods system for magnetic gas sensing applications. , 2016, , .		0
29	Growth of hybrid carbon nanostructures on iron-decorated ZnO nanorods. <i>Nanotechnology</i> , 2016, 27, 145605.	1.3	3
30	Graphene plasmon enhanced optical properties in ZnO micro-structures. , 2016, , .		0
31	Environmental Monitoring of Low-ppb Ammonia Concentrations Based on Single-wall Carbon Nanotube Chemiresistor Gas Sensors: Detection Limits, Response Dynamics, and Moisture Effects. <i>Procedia Engineering</i> , 2014, 87, 716-719.	1.2	19
32	High sensitivity, moisture selective, ammonia gas sensors based on single-walled carbon nanotubes functionalized with indium tin oxide nanoparticles. <i>Carbon</i> , 2014, 80, 356-363.	5.4	86
33	Enhancing the sensitivity of chemiresistor gas sensors based on pristine carbon nanotubes to detect low-ppb ammonia concentrations in the environment. <i>Analyst</i> , 2013, 138, 7392.	1.7	105
34	Coordination chemistry for antibacterial materials: a monolayer of a Cu ²⁺ 2,2'-bipyridine complex grafted on a glass surface. <i>Dalton Transactions</i> , 2013, 42, 4552.	1.6	21
35	Development of low-cost ammonia gas sensors and data analysis algorithms to implement a monitoring grid of urban environmental pollutants. <i>Journal of Environmental Monitoring</i> , 2012, 14, 1565.	2.1	25
36	Controlled synthesis of carbon nanostructures using aligned ZnO nanorods as templates. <i>Carbon</i> , 2012, 50, 5472-5480.	5.4	22