

Vernica-Mara Rodrguez-Betancourt

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.

27
papers

299
citations

12
h-index

16
g-index

29
ext. papers

363
ext. citations

3.4
avg, IF

3.05
L-index

#	Paper	IF	Citations
27	The fringe visibility measurements on the complex s-plane: A novel method for the fringe visibility measurement. <i>Results in Physics</i> , 2022 , 38, 105586	3.7	
26	Preparation of Powders Containing Sb, Ni, and O for the Design of a Novel CO and C ₃ H ₈ Sensor. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9536	2.6	0
25	High performance isopropanol sensor based on spinel ZnMn ₂ O ₄ nanoparticles. <i>Materials Today Communications</i> , 2021 , 26, 102138	2.5	2
24	A Gas Sensor for Application as a Propane Leak Detector. <i>Journal of Sensors</i> , 2021 , 2021, 1-11	2	2
23	Low-Finesse Fabry-Perot Interferometers Applied in the Study of the Relation between the Optical Path Difference and Poles Location. <i>Sensors</i> , 2020 , 20,	3.8	5
22	Carbone Monoxide (CO) Detection Device Based on the Nickel Antimonate Oxide and a DC Electronic Circuit. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3799	2.6	4
21	Signal Analysis, Signal Demodulation and Numerical Simulation of a Quasi-Distributed Optical Fiber Sensor Based on FDM/WDM Techniques and Fabry-Perot Interferometers. <i>Sensors</i> , 2019 , 19,	3.8	3
20	Synthesis and characterization of nickel antimonate nanoparticles: sensing properties in propane and carbon monoxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 6166-6177	2.1	6
19	A simple route for the preparation of nanostructured GdCoO ₃ via the solution method, as well as its characterization and its response to certain gases. <i>Results in Physics</i> , 2019 , 12, 475-483	3.7	12
18	Synthesis and characterization of cobalt antimonate nanostructures and their study as potential CO and CO ₂ sensor at low temperatures. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 15632-15642	2.1	7
17	A new CO ₂ detection system based on the trirutile-type CoSb ₂ O ₆ oxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 15741-15753	2.1	9
16	Synthesis of ZnMnO ₄ Nanoparticles by a Microwave-Assisted Colloidal Method and their Evaluation as a Gas Sensor of Propane and Carbon Monoxide. <i>Sensors</i> , 2018 , 18,	3.8	28
15	Sensitivity Tests of Pellets Made from Manganese Antimonate Nanoparticles in Carbon Monoxide and Propane Atmospheres. <i>Sensors</i> , 2018 , 18,	3.8	13
14	Key processing of porous and fibrous LaCoO ₃ nanostructures for successful CO and propane sensing. <i>Ceramics International</i> , 2018 , 44, 15402-15410	5.1	18
13	Facile Synthesis, Microstructure, and Gas Sensing Properties of NdCoO ₃ Nanoparticles. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-10	3.2	8
12	A novel CO and C ₃ H ₈ sensor made of CuSb ₂ O ₆ nanoparticles. <i>Ceramics International</i> , 2017 , 43, 13635-13644	3.4	18
11	A Theoretical Study and Numerical Simulation of a Quasi-Distributed Sensor Based on the Low-Finesse Fabry-Perot Interferometer: Frequency-Division Multiplexing. <i>Sensors</i> , 2017 , 17,	3.8	4

10	Gas Sensing Properties of NiSb ₂ O ₆ Micro- and Nanoparticles in Propane and Carbon Monoxide Atmospheres. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-9	3.2	17
9	Synthesis, characterization and sensitivity tests of perovskite-type LaFeO ₃ nanoparticles in CO and propane atmospheres. <i>Ceramics International</i> , 2016 , 42, 18821-18827	5.1	21
8	Enhanced CO ₂ -sensing response of nanostructured cobalt aluminate synthesized using a microwave-assisted colloidal method. <i>Sensors and Actuators B: Chemical</i> , 2016 , 226, 518-524	8.5	16
7	A Novel Gas Sensor Based on MgSb ₂ O ₆ Nanorods to Indicate Variations in Carbon Monoxide and Propane Concentrations. <i>Sensors</i> , 2016 , 16, 177	3.8	24
6	Synthesis, Characterization, and Sensor Applications of Spinel ZnCo ₂ O ₄ Nanoparticles. <i>Sensors</i> , 2016 , 16,	3.8	18
5	Sensitivity of Mesoporous CoSb ₂ O ₆ Nanoparticles to Gaseous CO and C ₃ H ₈ at Low Temperatures. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-9	3.2	15
4	CO and C ₃ H ₈ Sensitivity Behavior of Zinc Antimonate Prepared by a Microwave-Assisted Solution Method. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-8	3.2	10
3	Dynamic response of CoSb ₂ O ₆ trirutile-type oxides in a CO ₂ atmosphere at low-temperatures. <i>Sensors</i> , 2014 , 14, 15802-14	3.8	19
2	Anharmonic frequencies of [F, C, N, X] isomers (X = O, S) obtained from explicitly correlated coupled-cluster calculations. <i>Chemical Physics</i> , 2011 , 387, 1-4	2.3	10
1	Raman spectroscopic study of mixed valence neodymium and cerium chloride solutions in eutectic LiCl/Cl ₂ melts. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 173-179	3.6	10