

Hã©ctor Guillã©n-Bonilla

List of Publications by Year in descending order

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23
papers

289
citations

933264

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887953

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23
docs citations

23
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220
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of ZnMn ₂ O 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, 701.	2.1	43
2	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.	2.1	30
3	Synthesis, Characterization, and Sensor Applications of Spinel ZnCo ₂ O ₄ Nanoparticles. <i>Sensors</i> , 2016, 16, 2162.	2.1	26
4	Dynamic Response of CoSb ₂ O ₆ Trirutile-Type Oxides in a CO ₂ Atmosphere at Low-Temperatures. <i>Sensors</i> , 2014, 14, 15802-15814.	2.1	23
5	A simple route for the preparation of nanostructured GdCo 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.	2.0	20
6	Sensitivity Tests of Pellets Made from Manganese Antimonate Nanoparticles in Carbon Monoxide and Propane Atmospheres. <i>Sensors</i> , 2018, 18, 2299.	2.1	19
7	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.	1.5	18
8	Synthesis and gas sensing properties of nanostructured CoSb ₂ O ₆ microspheres. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 278-285.	4.0	17
9	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.	1.5	17
10	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.	1.5	11
11	Facile Synthesis, Microstructure, and Gas Sensing Properties of NdCo ₃ Nanoparticles. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-10.	1.5	10
12	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.	1.1	10
13	Synthesis of MnSb ₂ O ₆ powders through a simple low-temperature method and their test as a gas sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 7359-7372.	1.1	10
14	Synthesis of ZnAl ₂ O ₄ and Evaluation of the Response in Propane Atmospheres of Pellets and Thick Films Manufactured with Powders of the Oxide. <i>Sensors</i> , 2021, 21, 2362.	2.1	10
15	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.	1.1	9
16	A Gas Sensor for Application as a Propane Leak Detector. <i>Journal of Sensors</i> , 2021, 2021, 1-11.	0.6	5
17	CO ₂ Detection in Nanostructured CoSb ₂ O ₆ Prepared by a Non-aqueous Colloidal Method. <i>ECS Transactions</i> , 2010, 25, 49-51.	0.3	3
18	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.	1.3	2

#	ARTICLE	IF	CITATIONS
19	Electrical Response of the Spinel ZnAl ₂ O ₄ and Its Application in the Detection of Propane Gas. Applied Sciences (Switzerland), 2021, 11, 9488.	1.3	2
20	Synthesis, characterization, and sensitivity tests of a novel sensor based on barium antimonate powders. Materials Today Communications, 2022, 31, 103579.	0.9	2
21	Synthesis of the oxide NiSb ₂ O ₆ and its electrical characterization in toxic atmospheres for its application as a gas sensor. Journal of Materials Science: Materials in Electronics, 2022, 33, 18268-18283.	1.1	2
22	CO ₂ Response of Nanostructured CoSb ₂ O ₆ Synthesized by a Nonaqueous Coprecipitation Method. , 2010, , 39-53.		0
23	Synthesis Characterization of Nanostructured ZnCo ₂ O ₄ with High Sensitivity to CO Gas. , 2017, , .		0