

LuÃ-s F Da Silva

List of Publications by Year in descending order

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49
papers

1,797
citations

318942

23
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49
all docs

49
docs citations

49
times ranked

2281
citing authors

#	ARTICLE	IF	CITATIONS
1	$\hat{\Gamma}^{\pm}$ Ag ₂ WO ₄ under microwave, electron beam and femtosecond laser irradiations: Unveiling the relationship between morphology and photoluminescence emissions. Journal of Alloys and Compounds, 2022, 903, 163840.	2.8	3
2	Light-assisted ozone gas-sensing performance of SnO ₂ nanoparticles: Experimental and theoretical insights. Sensors and Actuators Reports, 2022, 4, 100081.	2.3	3
3	Effects of donor density on power-law response in tin dioxide gas sensors. Sensors and Actuators B: Chemical, 2021, 329, 129253.	4.0	8
4	BTEX gas sensor based on hematite microrhombuses. Sensors and Actuators B: Chemical, 2021, 326, 128817.	4.0	17
5	Cerium molybdate nanocrystals: Microstructural, optical and gas-sensing properties. Journal of Alloys and Compounds, 2021, 857, 157562.	2.8	11
6	Role of Surfaces in the Magnetic and Ozone Gas-Sensing Properties of ZnFe ₂ O ₄ Nanoparticles: Theoretical and Experimental Insights. ACS Applied Materials & Interfaces, 2021, 13, 4605-4617.	4.0	49
7	Effect of the oxidation state and morphology of SnO _x -based electrocatalysts on the CO ₂ reduction reaction. Journal of Materials Research, 2021, 36, 4240-4248.	1.2	5
8	Hematite rhombuses for chemiresistive ozone sensors: Experimental and theoretical approaches. Applied Surface Science, 2021, 563, 150209.	3.1	8
9	Selective Synthesis of $\hat{\Gamma}^{\pm}$, $\hat{\Gamma}^{2-}$, and $\hat{\Gamma}^{3-}$ Ag ₂ WO ₄ Polymorphs: Promising Platforms for Photocatalytic and Antibacterial Materials. Inorganic Chemistry, 2021, 60, 1062-1079.	1.9	18
10	Towards a white-emitting phosphor Ca ₁₀ V ₆ O ₂₅ based material. Journal of Luminescence, 2020, 220, 116990.	1.5	5
11	Multi-dimensional architecture of Ag/ $\hat{\Gamma}^{\pm}$ -Ag ₂ WO ₄ crystals: insights into microstructural, morphological, and photoluminescence properties. CrystEngComm, 2020, 22, 7903-7917.	1.3	9
12	Unraveling the Photoluminescence Properties of the Sr ₁₀ V ₆ O ₂₅ Structure through Experimental and Theoretical Analyses. Journal of Physical Chemistry C, 2020, 124, 14446-14458.	1.5	3
13	The role of counter-ions in crystal morphology, surface structure and photocatalytic activity of ZnO crystals grown onto a substrate. Applied Surface Science, 2020, 529, 147057.	3.1	15
14	One-Dimensional V ₂ O ₅ /TiO ₂ Heterostructures for Chemiresistive Ozone Sensors. ACS Applied Nano Materials, 2019, 2, 4756-4764.	2.4	41
15	Unveiling the efficiency of microwave-assisted hydrothermal treatment for the preparation of SrTiO ₃ mesocrystals. Physical Chemistry Chemical Physics, 2019, 21, 22031-22038.	1.3	11
16	Highly selective ozone gas sensor based on nanocrystalline Zn _{0.95} Co _{0.05} O thin film obtained via spray pyrolysis technique. Applied Surface Science, 2019, 478, 347-354.	3.1	53
17	UV-assisted chemiresistors made with gold-modified ZnO nanorods to detect ozone gas at room temperature. Mikročimica Acta, 2019, 186, 418.	2.5	109
18	Nanostructured ZnS:Cu phosphor: Correlation between photoluminescence properties and local structure. Journal of Luminescence, 2019, 206, 292-297.	1.5	19

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19	Luminescent and gas sensor properties of the ZrO ₂ :Hpa:Eu ³⁺ Hybrid Compound. Journal of Luminescence, 2018, 197, 38-46.	1.5	4
20	Improving the ozone gas-sensing properties of CuWO ₄ nanoparticles. Journal of Alloys and Compounds, 2018, 748, 411-417.	2.8	44
21	Yolk-shelled ZnCo ₂ O ₄ microspheres: Surface properties and gas sensing application. Sensors and Actuators B: Chemical, 2018, 257, 906-915.	4.0	197
22	The Role of Nb Addition in TiO ₂ Nanoparticles: Phase Transition and Photocatalytic Properties (Phys.) Tj ETQq0 0 0 0 BT /Overlock 10 Tf	0.8	1
23	The Role of Nb Addition in TiO ₂ Nanoparticles: Phase Transition and Photocatalytic Properties. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800321.	0.8	7
24	rGO-ZnO nanocomposites for high electrocatalytic effect on water oxidation obtained by microwave-hydrothermal method. Applied Surface Science, 2017, 423, 743-751.	3.1	59
25	UV-enhanced ozone gas sensing response of ZnO-SnO ₂ heterojunctions at room temperature. Sensors and Actuators B: Chemical, 2017, 240, 573-579.	4.0	108
26	ZnO/SnO ₂ Heterojunctions Sensors with UV-Enhanced Gas-Sensing Properties at Room Temperature. Proceedings (mdpi), 2017, 1, 418.	0.2	4
27	An Understanding of the Photocatalytic Properties and Pollutant Degradation Mechanism of SrTiO ₃ Nanoparticles. Photochemistry and Photobiology, 2016, 92, 371-378.	1.3	49
28	Ozone sensing properties of nickel phthalocyanine:ZnO nanorod heterostructures. , 2016, , .		12
29	Acetone gas sensor based on Î±-Ag ₂ WO ₄ nanorods obtained via a microwave-assisted hydrothermal route. Journal of Alloys and Compounds, 2016, 683, 186-190.	2.8	66
30	Local Structure and Surface Properties of Co _x Zn _{1-x} O Thin Films for Ozone Gas Sensing. ACS Applied Materials & Interfaces, 2016, 8, 26066-26072.	4.0	57
31	One-step approach for preparing ozone gas sensors based on hierarchical NiCo ₂ O ₄ structures. RSC Advances, 2016, 6, 92655-92662.	1.7	114
32	Structure and diffuse-boundary in hydrophobic and sodium dodecyl sulfate-modified silica aerogels. Microporous and Mesoporous Materials, 2016, 223, 196-202.	2.2	9
33	Hierarchical growth of ZnO nanorods over SnO ₂ seed layer: insights into electronic properties from photocatalytic activity. RSC Advances, 2016, 6, 2112-2118.	1.7	44
34	An easy method of preparing ozone gas sensors based on ZnO nanorods. RSC Advances, 2015, 5, 19528-19533.	1.7	68
35	Rapid synthesis of Co, Ni co-doped ZnO nanoparticles: Optical and electrochemical properties. Journal of Solid State Chemistry, 2015, 230, 343-349.	1.4	35
36	Ozone and nitrogen dioxide gas sensor based on a nanostructured SrTi _{0.85} Fe _{0.15} O ₃ thin film. Journal of Alloys and Compounds, 2015, 638, 374-379.	2.8	40

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37	Fingerprints of short-range and long-range structure in BaZr _{1-x} Hf _x O ₃ solid solutions: an experimental and theoretical study. Physical Chemistry Chemical Physics, 2015, 17, 11341-11349.	1.3	10
38	An investigation into the influence of zinc precursor on the microstructural, photoluminescence, and gas-sensing properties of ZnO nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	19
39	Influence of a co-substituted A-site on structural characteristics and ferroelectricity of (Pb, Ba) _{1-x} (Tl, Bi) _x TiO ₃ . Journal of Applied Science and Technology, 2014, 69, 605-616.	1.1	8
40	A novel ozone gas sensor based on one-dimensional (1D) Ag ₂ WO ₄ nanostructures. Nanoscale, 2014, 6, 4058-4062.	2.8	105
41	Insight into the Effects of Fe Addition on the Local Structure and Electronic Properties of SrTiO ₃ . Journal of Physical Chemistry C, 2014, 118, 4930-4940.	1.5	45
42	Ozone gas sensor based on nanocrystalline SrTi _{1-x} Fe _x O ₃ thin films. Sensors and Actuators B: Chemical, 2013, 181, 919-924.	4.0	41
43	Long-range and short-range structures of cube-like shape SrTiO ₃ powders: microwave-assisted hydrothermal synthesis and photocatalytic activity. Physical Chemistry Chemical Physics, 2013, 15, 12386.	1.3	91
44	Relationship between Crystal Shape, Photoluminescence, and Local Structure in SrTiO ₃ by Microwave-Assisted Hydrothermal Method. Journal of Nanomaterials, 2012, 2012, 1-6.	1.5	28
45	Novel SrTi _{1-x} Fe _x O ₃ nanocubes synthesized by microwave-assisted hydrothermal method. CrystEngComm, 2012, 14, 4068.	1.3	21
46	An improved method for preparation of SrTiO ₃ nanoparticles. Materials Chemistry and Physics, 2011, 125, 168-173.	2.0	69
47	Synthesis and thermal decomposition of SrTi _{1-x} Fe _x O ₃ (0.0 ≤ x ≤ 0.1) powders obtained by the polymeric precursor method. Journal of Thermal Analysis and Calorimetry, 2009, 97, 173-177.	2.0	29
48	Nanocrystalline GaN and GaN: H films grown by RF-magnetron sputtering. Brazilian Journal of Physics, 2006, 36, 978-981.	0.7	7
49	Nanocrystalline Ga _{1-x} Mn _x N films grown by reactive sputtering. Journal of Crystal Growth, 2006, 294, 309-314.	0.7	19