Diogo Paschoalini Volanti

List of Publications by Year
in descending order

53 papers	2,915 citations	212478 28 h-index	198040 52 g-index
55 all docs	55 docs citations	55 times ranked	4255 citing authors

#	Article	IF	Citations
1	Effect of NiS nanosheets on the butanone sensing performance of ZnO hollow spheres under humidity conditions. Sensors and Actuators B: Chemical, 2021, 334, 129684.	4.0	31
2	Porous ZnSnO3 nanocubes as a triethylamine sensor. Sensors and Actuators B: Chemical, 2021, 338, 129869.	4.0	51
3	Reoxidation of graphene oxide: Impact on the structure, chemical composition, morphology and dye adsorption properties. Applied Surface Science, 2021, 567, 150774.	3.1	10
4	Improved triethylamine sensing properties by designing an In2O3/ZnO heterojunction. Sensors and Actuators Reports, 2021, 3, 100064.	2.3	4
5	Effect of amylolysis on the formation, the molecular, crystalline and thermal characteristics and the digestibility of retrograded starches. International Journal of Biological Macromolecules, 2020, 163, 1333-1343.	3.6	19
6	ZnO twin-rods decorated with Pt nanoparticles for butanone detection. New Journal of Chemistry, 2020, 44, 15574-15583.	1.4	31
7	Enhancement of 2-butanone sensing properties of SiO2@CoO core-shell structures. Ceramics International, 2020, 46, 22692-22698.	2.3	25
8	Low-Temperature Carbon Dioxide Gas Sensor Based on Yolkâ€“Shell Ceria Nanospheres. ACS Applied Materials & Interfaces, 2020, 12, 17745-17751.	4.0	53
9	Synthesis of acicular Î±-Bi₂O₃ microcrystals by microwave-assisted hydrothermal method. Particulate Science and Technology, 2019, 37, 927-931.	1.1	7
10	Ethanol detection using composite based on reduced graphene oxide and CuO hierarchical structure under wet atmosphere. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 248, 114385.	1.7	11
11	One-Pot Synthesis and Antifungal Activity of Nontoxic Silver-Loaded Hydroxyapatite Nanocomposites against Candida Species. ACS Applied Nano Materials, 2019, 2, 2112-2120.	2.4	20
12	Effect of lanthanide ion doping on Mgâ^'Al mixed oxides as active acidâ^'base catalysts for fatty acid ethyl ester synthesis. Renewable Energy, 2019, 133, 367-372.	4.3	19
13	Flexible room-temperature volatile organic compound sensors based on reduced graphene oxideâ€“WO₃Â·0.33H₂O nano-needles. Journal of Materials Chemistry C, 2018, 6, 2822-2829.	2.7	31
14	Bicone-like ZnO structure as high-performance butanone sensor. Materials Letters, 2018, 223, 142-145.	1.3	29
15	Effective reduced graphene oxide sheets/hierarchical flower-like NiO composites for methanol sensing under high humidity. New Journal of Chemistry, 2018, 42, 8638-8645.	1.4	26
16	Accelerated microwave-assisted hydrothermal/solvothermal processing: Fundamentals, morphologies, and applications. Journal of Electroceramics, 2018, 40, 271-292.	0.8	15
17	Effect of CO2 in the oxidative dehydrogenation reaction of propane over Cr/ZrO2 catalysts. Applied Catalysis A: General, 2018, 558, 55-66.	2.2	44
18	High-performance ultraviolet-visible driven ZnO morphologies photocatalyst obtained by microwave-assisted hydrothermal method. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 358-367.	2.0	33

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19	Structural, thermal, and morphological characteristics of cassava amylodextrins. Journal of the Science of Food and Agriculture, 2018, 98, 2751-2760.	1.7	11
20	Porous CeO₂ nanospheres for a room temperature triethylamine sensor under high humidity conditions. New Journal of Chemistry, 2018, 42, 15954-15961.	1.4	36
21	Production of Nanostructured Silver from Waste Radiographic Films Using a Microwave-Assisted Hydrothermal Method. Journal of Sustainable Metallurgy, 2018, 4, 407-411.	1.1	1
22	Direct photo-oxidation and superoxide radical as major responsible for dye photodegradation mechanism promoted by TiO2â€“rGO heterostructure. Journal of Materials Science: Materials in Electronics, 2018, 29, 17022-17037.	1.1	14
23	Impact of reduced graphene oxide on the ethanol sensing performance of hollow SnO2 nanoparticles under humid atmosphere. Sensors and Actuators B: Chemical, 2017, 244, 466-474.	4.0	117
24	The interplay between morphology and photocatalytic activity in ZnO and N-doped ZnO crystals. Materials and Design, 2017, 120, 363-375.	3.3	79
25	Design of nanostructured WO₃Â·0.33H₂O via combination of ultrasonic spray nozzle and microwave-assisted hydrothermal methods for enhancing isopropanol gas sensing at room temperature. CrystEngComm, 2017, 19, 2733-2738.	1.3	29
26	ZnO nanorods/graphene oxide sheets prepared by chemical bath deposition for volatile organic compounds detection. Journal of Alloys and Compounds, 2017, 696, 996-1003.	2.8	71
27	Palladiumâ€Loaded Hierarchical Flowerâ€like Tin Dioxide Structure as Chemosensor Exhibiting High Ethanol Response in Humid Conditions. Advanced Materials Interfaces, 2017, 4, 1700847.	1.9	25
28	Well-designed Î²-Ag2MoO4 crystals with photocatalytic and antibacterial activity. Materials and Design, 2017, 115, 73-81.	3.3	67
29	In-situ sensor response of copper oxide urchin-like structures. , 2016, , .		0
30	Room-temperature volatile organic compounds sensing based on WO₃Â·0.33H₂O, hexagonal-WO_{3,} and their reduced graphene oxide composites. RSC Advances, 2016, 6, 105171-105179.	1.7	36
31	Monitoring a CuO gas sensor at work: an advanced in situ X-ray absorption spectroscopy study. Physical Chemistry Chemical Physics, 2015, 17, 18761-18767.	1.3	24
32	Effect of Pressure-Assisted Heat Treatment on Photoluminescence Emission of Î±-Bi₂O₃ Needles. Inorganic Chemistry, 2015, 54, 10184-10191.	1.9	33
33	Toward an Understanding of the Growth of Ag Filaments on Î±-Ag₂WO₄ and Their Photoluminescent Properties: A Combined Experimental and Theoretical Study. Journal of Physical Chemistry C, 2014, 118, 1229-1239.	1.5	124
34	Structural and electronic analysis of the atomic scale nucleation of Ag on Î±-Ag2WO4 induced by electron irradiation. Scientific Reports, 2014, 4, 5391.	1.6	99
35	Effect of the ZrO2 phase on the structure and behavior of supported Cu catalysts for ethanol conversion. Journal of Catalysis, 2013, 307, 1-17.	3.1	255
36	The Role of Hierarchical Morphologies in the Superior Gas Sensing Performance of CuOâ€Based Chemiresistors. Advanced Functional Materials, 2013, 23, 1759-1766.	7.8	255

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37	Direct in situ observation of the electron-driven synthesis of Ag filaments on Î±-Ag2WO4 crystals. Scientific Reports, 2013, 3, 1676.	1.6	103
38	Site-selective ethanol conversion over supported copper catalysts. Catalysis Communications, 2012, 26, 122-126.	1.6	100
39	Morphological and Structural changes of Ca_xSr_{1â^'x}TiO₃ Powders Obtained by the Microwaveâ€Assisted Hydrothermal Method. International Journal of Applied Ceramic Technology, 2012, 9, 186-192.	1.1	12
40	Radioluminescence properties of decaoctahedral BaZrO3. Scripta Materialia, 2011, 64, 118-121.	2.6	34
41	Orderâ€“disorder degree of self-assembled clusters: Influence on photoluminescence emission and morphology of BaxSr1â^'xTiO3 nanocrystals. Chemical Physics Letters, 2011, 514, 301-306.	1.2	9
42	Insight into Copperâ€Based Catalysts: Microwaveâ€Assisted Morphosynthesis, Inâ€…Situ Reduction Studies, and Dehydrogenation of Ethanol. ChemCatChem, 2011, 3, 839-843.	1.8	25
43	ZnO architectures synthesized by a microwave-assisted hydrothermal method and their photoluminescence properties. Solid State Ionics, 2010, 181, 775-780.	1.3	92
44	Photoluminescence of bariumâ€“calcium titanates obtained by the microwave-assisted hydrothermal method (MAH). Chemical Physics Letters, 2010, 488, 54-56.	1.2	25
45	Efficient microwave-assisted hydrothermal synthesis of CuO sea urchin-like architectures via a mesoscale self-assembly. CrystEngComm, 2010, 12, 1696.	1.3	109
46	The role of the Eu3+ ions in structure and photoluminescence properties of SrBi2Nb2O9 powders. Optical Materials, 2009, 31, 995-999.	1.7	59
47	CuO urchin-nanostructures synthesized from a domestic hydrothermal microwave method. Materials Research Bulletin, 2008, 43, 771-775.	2.7	79
48	Influence of microwave energy on structural and photoluminescent behavior of CaTiO3 powders. Solid State Sciences, 2008, 10, 1056-1061.	1.5	56
49	Hydrothermal Microwave: A New Route to Obtain Photoluminescent Crystalline BaTiO₃ Nanoparticles. Chemistry of Materials, 2008, 20, 5381-5387.	3.2	166
50	Synthesis and characterization of CuO flower-nanostructure processing by a domestic hydrothermal microwave. Journal of Alloys and Compounds, 2008, 459, 537-542.	2.8	235
51	Photoluminescent behavior of SrBi2Nb2O9 powders explained by means of Î²-Bi2O3 phase. Applied Physics Letters, 2007, 90, 261913.	1.5	34
52	Domestic microwave oven adapted for fast heat treatment of Ba0.5Sr0.5(Ti0.8Sn0.2)O3 powders. Journal of Materials Processing Technology, 2007, 189, 316-319.	3.1	40
53	Understanding the active copper sites of Cu/ZrO2 catalyst applied to direct conversion of ethanol to ethyl acetate and hydrogen. , 0, , .		0