Diogo Paschoalini Volanti

List of Publications by Year
in descending order

53 papers	2,915 citations	186265 28 h-index	175258 52 g-index
55 all docs	55 docs citations	55 times ranked	3822 citing authors

#	Article	IF	Citations
1	Effect of the ZrO2 phase on the structure and behavior of supported Cu catalysts for ethanol conversion. Journal of Catalysis, 2013, 307, 1-17.	6.2	255
2	The Role of Hierarchical Morphologies in the Superior Gas Sensing Performance of CuOâ€Based Chemiresistors. Advanced Functional Materials, 2013, 23, 1759-1766.	14.9	255
3	Synthesis and characterization of CuO flower-nanostructure processing by a domestic hydrothermal microwave. Journal of Alloys and Compounds, 2008, 459, 537-542.	5.5	235
4	Hydrothermal Microwave: A New Route to Obtain Photoluminescent Crystalline BaTiO₃ Nanoparticles. Chemistry of Materials, 2008, 20, 5381-5387.	6.7	166
5	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.	3.1	124
6	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.	7.8	117
7	Efficient microwave-assisted hydrothermal synthesis of CuO sea urchin-like architectures via a mesoscale self-assembly. CrystEngComm, 2010, 12, 1696.	2.6	109
8	Direct in situ observation of the electron-driven synthesis of Ag filaments on Î±-Ag2WO4 crystals. Scientific Reports, 2013, 3, 1676.	3.3	103
9	Site-selective ethanol conversion over supported copper catalysts. Catalysis Communications, 2012, 26, 122-126.	3.3	100
10	Structural and electronic analysis of the atomic scale nucleation of Ag on Î±-Ag2WO4 induced by electron irradiation. Scientific Reports, 2014, 4, 5391.	3.3	99
11	ZnO architectures synthesized by a microwave-assisted hydrothermal method and their photoluminescence properties. Solid State Ionics, 2010, 181, 775-780.	2.7	92
12	CuO urchin-nanostructures synthesized from a domestic hydrothermal microwave method. Materials Research Bulletin, 2008, 43, 771-775.	5.2	79
13	The interplay between morphology and photocatalytic activity in ZnO and N-doped ZnO crystals. Materials and Design, 2017, 120, 363-375.	7.0	79
14	ZnO nanorods/graphene oxide sheets prepared by chemical bath deposition for volatile organic compounds detection. Journal of Alloys and Compounds, 2017, 696, 996-1003.	5.5	71
15	Well-designed Î²-Ag2MoO4 crystals with photocatalytic and antibacterial activity. Materials and Design, 2017, 115, 73-81.	7.0	67
16	The role of the Eu3+ ions in structure and photoluminescence properties of SrBi2Nb2O9 powders. Optical Materials, 2009, 31, 995-999.	3.6	59
17	Influence of microwave energy on structural and photoluminescent behavior of CaTiO3 powders. Solid State Sciences, 2008, 10, 1056-1061.	3.2	56
18	Low-Temperature Carbon Dioxide Gas Sensor Based on Yolkâ€“Shell Ceria Nanospheres. ACS Applied Materials & Interfaces, 2020, 12, 17745-17751.	8.0	53

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19	Porous ZnSnO3 nanocubes as a triethylamine sensor. Sensors and Actuators B: Chemical, 2021, 338, 129869.	7.8	51
20	Effect of CO2 in the oxidative dehydrogenation reaction of propane over Cr/ZrO2 catalysts. Applied Catalysis A: General, 2018, 558, 55-66.	4.3	44
21	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.	6.3	40
22	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.	3.6	36
23	Porous CeO₂ nanospheres for a room temperature triethylamine sensor under high humidity conditions. New Journal of Chemistry, 2018, 42, 15954-15961.	2.8	36
24	Photoluminescent behavior of SrBi2Nb2O9 powders explained by means of Î²-Bi2O3 phase. Applied Physics Letters, 2007, 90, 261913.	3.3	34
25	Radioluminescence properties of decaoctahedral BaZrO3. Scripta Materialia, 2011, 64, 118-121.	5.2	34
26	Effect of Pressure-Assisted Heat Treatment on Photoluminescence Emission of Î±-Bi₂O₃ Needles. Inorganic Chemistry, 2015, 54, 10184-10191.	4.0	33
27	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.	3.9	33
28	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.	5.5	31
29	ZnO twin-rods decorated with Pt nanoparticles for butanone detection. New Journal of Chemistry, 2020, 44, 15574-15583.	2.8	31
30	Effect of NiS nanosheets on the butanone sensing performance of ZnO hollow spheres under humidity conditions. Sensors and Actuators B: Chemical, 2021, 334, 129684.	7.8	31
31	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.	2.6	29
32	Bicone-like ZnO structure as high-performance butanone sensor. Materials Letters, 2018, 223, 142-145.	2.6	29
33	Effective reduced graphene oxide sheets/hierarchical flower-like NiO composites for methanol sensing under high humidity. New Journal of Chemistry, 2018, 42, 8638-8645.	2.8	26
34	Photoluminescence of bariumâ€“calcium titanates obtained by the microwave-assisted hydrothermal method (MAH). Chemical Physics Letters, 2010, 488, 54-56.	2.6	25
35	Insight into Copperâ€Based Catalysts: Microwaveâ€Assisted Morphosynthesis, Inâ€…Situ Reduction Studies, and Dehydrogenation of Ethanol. ChemCatChem, 2011, 3, 839-843.	3.7	25
36	Palladiumâ€Loaded Hierarchical Flowerâ€like Tin Dioxide Structure as Chemosensor Exhibiting High Ethanol Response in Humid Conditions. Advanced Materials Interfaces, 2017, 4, 1700847.	3.7	25

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37	Enhancement of 2-butanone sensing properties of SiO2@CoO core-shell structures. Ceramics International, 2020, 46, 22692-22698.	4.8	25
38	Monitoring a CuO gas sensor at work: an advanced in situ X-ray absorption spectroscopy study. Physical Chemistry Chemical Physics, 2015, 17, 18761-18767.	2.8	24
39	One-Pot Synthesis and Antifungal Activity of Nontoxic Silver-Loaded Hydroxyapatite Nanocomposites against Candida Species. ACS Applied Nano Materials, 2019, 2, 2112-2120.	5.0	20
40	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.	8.9	19
41	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.	7.5	19
42	Accelerated microwave-assisted hydrothermal/solvothermal processing: Fundamentals, morphologies, and applications. Journal of Electroceramics, 2018, 40, 271-292.	2.0	15
43	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.	2.2	14
44	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.	2.1	12
45	Structural, thermal, and morphological characteristics of cassava amylodextrins. Journal of the Science of Food and Agriculture, 2018, 98, 2751-2760.	3.5	11
46	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.	3.5	11
47	Reoxidation of graphene oxide: Impact on the structure, chemical composition, morphology and dye adsorption properties. Applied Surface Science, 2021, 567, 150774.	6.1	10
48	Orderâ€"disorder degree of self-assembled clusters: Influence on photoluminescence emission and morphology of BaxSr1â^'xTiO3 nanocrystals. Chemical Physics Letters, 2011, 514, 301-306.	2.6	9
49	Synthesis of acicular Î±-Bi₂O₃ microcrystals by microwave-assisted hydrothermal method. Particulate Science and Technology, 2019, 37, 927-931.	2.1	7
50	Improved triethylamine sensing properties by designing an In2O3/ZnO heterojunction. Sensors and Actuators Reports, 2021, 3, 100064.	4.4	4
51	Production of Nanostructured Silver from Waste Radiographic Films Using a Microwave-Assisted Hydrothermal Method. Journal of Sustainable Metallurgy, 2018, 4, 407-411.	2.3	1
52	In-situ sensor response of copper oxide urchin-like structures. , 2016, , .		0
53	Understanding the active copper sites of Cu/ZrO2 catalyst applied to direct conversion of ethanol to ethyl acetate and hydrogen. , 0, , .		0