Maria Vila Santos

List of Publications by Year
in descending order

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29 papers	597 citations	623574 14 h-index	610775 24 g-index
29 all docs	29 docs citations	29 times ranked	934 citing authors

#	Article	IF	Citations
1	Luminescence and Raman study of Î±-Bi2O3 ceramics. Materials Chemistry and Physics, 2012, 133, 559-564.	2.0	64
2	Optical and magnetic properties of CuO nanowires grown by thermal oxidation. Journal Physics D: Applied Physics, 2010, 43, 135403.	1.3	53
3	Exchange bias in single-crystalline CuO nanowires. Applied Physics Letters, 2010, 96, .	1.5	52
4	Î±-Bi2O3 microcrystals and microrods: Thermal synthesis, structural and luminescence properties. Journal of Alloys and Compounds, 2013, 548, 188-193.	2.8	50
5	Laser irradiation-induced Î± to Î´ phase transformation in Bi2O3 ceramics and nanowires. Applied Physics Letters, 2012, 101, 071905.	1.5	40
6	Structural and luminescence properties of Eu and Er implanted Bi2O3 nanowires for optoelectronic applications. Journal of Materials Chemistry C, 2013, 1, 7920.	2.7	38
7	Intense luminescence emission from rare-earth-doped MoO3nanoplates and lamellar crystals for optoelectronic applications. Journal Physics D: Applied Physics, 2014, 47, 355105.	1.3	28
8	Carbon nanotube synthesis and spinning as macroscopic fibers assisted by the ceramic reactor tube. Scientific Reports, 2019, 9, 9239.	1.6	28
9	Assessing Oxygen Vacancies in Bismuth Oxide through EELS Measurements and DFT Simulations. Journal of Physical Chemistry C, 2017, 121, 24809-24815.	1.5	23
10	Transparent Sol-Gel Oxyfluoride Glass-Ceramics with High Crystalline Fraction and Study of RE Incorporation. Nanomaterials, 2019, 9, 530.	1.9	21
11	Transparent and flexible high-power supercapacitors based on carbon nanotube fibre aerogels. Nanoscale, 2020, 12, 16980-16986.	2.8	21
12	In situ synchrotron x-ray diffraction study of Zn/Bi2O3 electrodes prior to and during discharge of Zn-air batteries: Influence on ZnO deposition. Electrochimica Acta, 2018, 281, 133-141.	2.6	18
13	Simultaneous improvements in conversion and properties of molecularly controlled CNT fibres. Carbon, 2021, 179, 417-424.	5.4	18
14	Surface Chemistry Analysis of Carbon Nanotube Fibers by Xâ€Ray Photoelectron Spectroscopy. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800187.	0.8	15
15	Low-energy consumption, free-form capacitive deionization through nanostructured networks. Carbon, 2021, 176, 390-399.	5.4	15
16	Macroscopic yarns of FeCl3-intercalated collapsed carbon nanotubes with high doping and stability. Carbon, 2021, 173, 311-321.	5.4	14
17	Controlled orientation of molecular-beam-epitaxial BaTiO₃on Si(001) using thickness engineering of BaTiO₃and SrTiO₃buffer layers. Applied Physics Express, 2017, 10, 065501.	1.1	13
18	Double Beneficial Role of Fluorinated Fullerene Dopants on Organic Thin-Film Transistors: Structural Stability and Improved Performance. ACS Applied Materials & Interfaces, 2020, 12, 28416-28425.	4.0	13

#	Article	IF	Citations
19	Growth, structure, luminescence and mechanical resonance of Bi₂O₃nano- and microwires. CrystEngComm, 2015, 17, 132-139.	1.3	12
20	Composite Fabrics of Conformal MoS₂ Grown on CNT Fibers: Tough Battery Anodes without Metals or Binders. ACS Applied Energy Materials, 2021, 4, 5668-5676.	2.5	12
21	Correlation between surface reconstruction and polytypism in InAs nanowire selective area epitaxy. Physical Review Materials, 2017, 1, .	0.9	10
22	Structured light using carbon nanostructures driven by Kerr nonlinearities and a magnetic field. Physical Chemistry Chemical Physics, 2022, 24, 1081-1090.	1.3	9
23	Effects of thermal annealing on the structural and electronic properties of rare earth-implanted MoO₃ nanoplates. CrystEngComm, 2017, 19, 2339-2348.	1.3	6
24	Identification of Collapsed Carbon Nanotubes in High-Strength Fibers Spun from Compositionally Polydisperse Aerogels. ACS Applied Nano Materials, 2021, 4, 6947-6955.	2.4	6
25	Improving the CO and CH4 Gas Sensor Response at Room Temperature of Î±-Fe2O3(0001) Epitaxial Thin Films Grown on SrTiO3(111) Incorporating Au(111) Islands. Coatings, 2021, 11, 848.	1.2	5
26	Thermal growth, structural and optical characterization of hierarchical Bi2O3 - MoO3 nanostructures. Journal of Alloys and Compounds, 2017, 728, 827-835.	2.8	4
27	Ferromagnetic epitaxial Cr2O3 thin films grown on oxide substrates by Pulsed Laser Deposition. Applied Surface Science, 2020, 534, 147638.	3.1	4
28	Correlation of Electrical Response and Structural Phase Transitions in Bi₂O₃ Nanowires. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800186.	0.8	3
29	The effect of Ga pre-deposition on Si (111) surface for InAs nanowire selective area hetero-epitaxy. Journal of Applied Physics, 2018, 123, .	1.1	2