

Cã©lia T Sousa

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,196
citations

201385

27
h-index

243296

44
g-index

82
all docs

82
docs citations

82
times ranked

2825
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoporous alumina as templates for multifunctional applications. <i>Applied Physics Reviews</i> , 2014, 1, 031102.	5.5	225
2	Size and surface effects on the magnetic properties of NiO nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9561.	1.3	140
3	On the stability enhancement of cuprous oxide water splitting photocathodes by low temperature steam annealing. <i>Energy and Environmental Science</i> , 2014, 7, 4044-4052.	15.6	121
4	Magnetic Nanomaterials as Contrast Agents for MRI. <i>Materials</i> , 2020, 13, 2586.	1.3	101
5	Magnetic interactions and reversal mechanisms in Co nanowire and nanotube arrays. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	95
6	Tin oxide as stable protective layer for composite cuprous oxide water-splitting photocathodes. <i>Nano Energy</i> , 2016, 24, 10-16.	8.2	84
7	Ni growth inside ordered arrays of alumina nanopores: Enhancing the deposition rate. <i>Electrochimica Acta</i> , 2012, 72, 215-221.	2.6	72
8	Tuning pore filling of anodic alumina templates by accurate control of the bottom barrier layer thickness. <i>Nanotechnology</i> , 2011, 22, 315602.	1.3	65
9	Unbiased solar energy storage: Photoelectrochemical redox flow battery. <i>Nano Energy</i> , 2016, 22, 396-405.	8.2	63
10	The role of the Ti surface roughness in the self-ordering of TiO ₂ nanotubes: a detailed study of the growth mechanism. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9067-9078.	5.2	52
11	Magnetic nanostructures for emerging biomedical applications. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	51
12	Nanoscale Topography: A Tool to Enhance Pore Order and Pore Size Distribution in Anodic Aluminum Oxide. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8567-8572.	1.5	48
13	Co nanostructures in ordered templates: comparative FORC analysis. <i>Nanotechnology</i> , 2013, 24, 475703.	1.3	46
14	Exchange bias, training effect, and bimodal distribution of blocking temperatures in electrodeposited core-shell nanotubes. <i>Physical Review B</i> , 2013, 87, .	1.1	44
15	Structural, Optical, and Magnetic Properties of Highly Ordered Mesoporous MCr ₂ O ₄ and MCr ₂ FeO ₄ (M = Co, Zn) Spinel Thin Films with Uniform 15 nm Diameter Pores and Tunable Nanocrystalline Domain Sizes. <i>Chemistry of Materials</i> , 2012, 24, 155-165.	3.2	43
16	Tuning the magnetic properties of multisegmented Ni/Cu electrodeposited nanowires with controllable Ni lengths. <i>Nanotechnology</i> , 2016, 27, 335301.	1.3	38
17	Distinguishing nanowire and nanotube formation by the deposition current transients. <i>Nanoscale Research Letters</i> , 2012, 7, 280.	3.1	37
18	Room temperature magnetocaloric effect and refrigerant capacitance in La _{0.7} Sr _{0.3} MnO ₃ nanotube arrays. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	34

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19	Room Temperature Magnetic Rare-Earth Iron Garnet Thin Films with Ordered Mesoporous Structure. Chemistry of Materials, 2013, 25, 2527-2537.	3.2	33
20	Ferromagnetic Sorbents Based on Nickel Nanowires for Efficient Uptake of Mercury from Water. ACS Applied Materials & Interfaces, 2014, 6, 8274-8280.	4.0	33
21	CROSSOVER BETWEEN MAGNETIC REVERSAL MODES IN ORDERED Ni AND Co NANOTUBE ARRAYS. Spin, 2012, 02, 1250014.	0.6	32
22	The Role of Cu Length on the Magnetic Behaviour of Fe/Cu Multi-Segmented Nanowires. Nanomaterials, 2018, 8, 490.	1.9	31
23	EGCG intestinal absorption and oral bioavailability enhancement using folic acid-functionalized nanostructured lipid carriers. Heliyon, 2019, 5, e02020.	1.4	31
24	Effect of Nonsteroidal Anti-Inflammatory Drugs on the Cellular Membrane Fluidity. Journal of Pharmaceutical Sciences, 2008, 97, 3195-3206.	1.6	30
25	Angular first-order reversal curves: an advanced method to extract magnetization reversal mechanisms and quantify magnetostatic interactions. Journal of Physics Condensed Matter, 2014, 26, 116004.	0.7	30
26	Nanopore formation and growth in phosphoric acid Al anodization. Journal of Non-Crystalline Solids, 2008, 354, 5238-5240.	1.5	29
27	and short-range magneto-electric clusters in CdCr_3 ions S and Cr ions	1.1	28
28	Precise control of the filling stages in branched nanopores. Journal of Materials Chemistry, 2012, 22, 3110.	6.7	27
29	Modeling the Growth Kinetics of Anodic TiO_2 Nanotubes. Journal of Physical Chemistry Letters, 2015, 6, 845-851.	2.1	26
30	Identifying weakly-interacting single domain states in Ni nanowire arrays by FORC. Journal of Alloys and Compounds, 2017, 699, 421-429.	2.8	26
31	Ultra-long Fe nanowires by pulsed electrodeposition with full filling of alumina templates. Materials Research Express, 2014, 1, 015028.	0.8	25
32	Photoelectrochemical Water Splitting: Thermal Annealing Challenges on Hematite Nanowires. Journal of Physical Chemistry C, 2020, 124, 12897-12911.	1.5	24
33	Tailoring the physical properties of thin nanohole arrays grown on flat anodic aluminum oxide templates. Nanotechnology, 2012, 23, 425701.	1.3	23
34	Insights into the role of magnetoelastic anisotropy in the magnetization reorientation of magnetic nanowires. Physical Review B, 2011, 84, .	1.1	21
35	pH sensitive silica nanotubes as rationally designed vehicles for NSAIDs delivery. Colloids and Surfaces B: Biointerfaces, 2012, 94, 288-295.	2.5	21
36	Functionalization of nickel nanowires with a fluorophore aiming at new probes for multimodal bioanalysis. Journal of Colloid and Interface Science, 2013, 410, 21-26.	5.0	20

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37	Influence of the Rest Pulse Duration in Pulsed Electrodeposition of Fe Nanowires. Journal of Nanoscience and Nanotechnology, 2012, 12, 9112-9117.	0.9	19
38	Birefringence swap at the transition to hyperbolic dispersion in metamaterials. Physical Review B, 2012, 85, .	1.1	18
39	Characterization of electrodeposited Ni and Ni ₈₀ Fe ₂₀ nanowires. Journal of Non-Crystalline Solids, 2008, 354, 5241-5243.	1.5	17
40	Delocalized versus localized magnetization reversal in template-grown Ni and nanowires. Journal of Magnetism and Magnetic Materials, 2010, 322, 1319-1322.	1.0	17
41	Influence of surface pre-treatment in the room temperature fabrication of nanoporous alumina. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3488-3491.	0.8	16
42	Microscopic reversal magnetization mechanisms in CoCrPt thin films with perpendicular magnetic anisotropy: Fractal structure versus labyrinth stripe domains. Physical Review B, 2017, 96, .	1.1	16
43	The cyclic nature of porosity in anodic TiO ₂ nanotube arrays. Journal of Materials Chemistry A, 2015, 3, 3692-3698.	5.2	15
44	A versatile synthesis method of dendrites-free segmented nanowires with a precise size control. Nanoscale Research Letters, 2012, 7, 168.	3.1	14
45	Magnetocaloric effect in La _{0.7} Ca _{0.3} MnO ₃ nanotube arrays with broad working temperature span. Journal of Applied Physics, 2015, 117, .	1.1	14
46	Probing the Quality of Ni Filled Nanoporous Alumina Templates by Magnetic Techniques. Journal of Nanoscience and Nanotechnology, 2012, 12, 7486-7490.	0.9	13
47	Double-walled iron oxide nanotubes via selective chemical etching and Kirkendall process. Scientific Reports, 2019, 9, 11994.	1.6	13
48	The Magnetic Properties of Fe/Cu Multilayered Nanowires: The Role of the Number of Fe Layers and Their Thickness. Nanomaterials, 2021, 11, 2729.	1.9	13
49	Rapid Synthesis of Ordered Manganite Nanotubes by Microwave Irradiation in Alumina Templates. Journal of Nanoscience and Nanotechnology, 2009, 9, 6084-6088.	0.9	12
50	Study of Nanostructured Array of Antidots Using Pulsed Magnetic Fields. Journal of Low Temperature Physics, 2010, 159, 245-248.	0.6	12
51	Tailoring Bi-Te based nanomaterials by electrodeposition: Morphology and crystalline structure. Materials and Design, 2017, 118, 168-174.	3.3	12
52	Magnetic reversal modes in cylindrical nanostructures: from disks to wires. Scientific Reports, 2021, 11, 10100.	1.6	12
53	Tailoring the Ti surface via electropolishing nanopatterning as a route to obtain highly ordered TiO ₂ nanotubes. Nanotechnology, 2014, 25, 485301.	1.3	10
54	Temperature dependence of the training effect in electrodeposited Co/CoO nanotubes. Journal of Applied Physics, 2013, 114, .	1.1	8

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55	Study of magnetoelastic and magnetocrystalline anisotropies in Co Ni ¹ nanowire arrays. Journal of Magnetism and Magnetic Materials, 2015, 374, 663-668.	1.0	8
56	The effect of electrolyte re-utilization in the growth rate and morphology of TiO ₂ nanotubes. Materials Letters, 2016, 171, 224-227.	1.3	8
57	Enhanced Properties of Co-Sn Coatings Electrodeposited from Choline Chloride-Based Deep Eutectic Solvents. Crystal Growth and Design, 2017, 17, 5208-5215.	1.4	8
58	Correlations among magnetic, electrical and magneto-transport properties of NiFe nanohole arrays. Journal of Physics Condensed Matter, 2013, 25, 066007.	0.7	7
59	Electrochemical synthesis and magnetism of magnetic nanotubes. , 2015, , 727-781.		7
60	Microstructure and magnetic properties of (Fe _{100-x} Co _x) _{84.5} Nb ₅ B _{8.5} P ₂ alloys. Journal of Alloys and Compounds, 2012, 536, S337-S341.	2.8	6
61	Exciting the optical response of nanowire metamaterial films on the tip of optical fibres. Physica Status Solidi - Rapid Research Letters, 2013, 7, 664-667.	1.2	6
62	Influence of sol-gel parameters in the fabrication of ferromagnetic La _{2/3} Ca _{1/3} MnO ₃ nanotube arrays. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 200, 117-123.	1.7	6
63	Tailoring the Anodic Hafnium Oxide Morphology Using Different Organic Solvent Electrolytes. Nanomaterials, 2020, 10, 382.	1.9	6
64	Evaluation of the toxicity of nickel nanowires to freshwater organisms at concentrations and short-term exposures compatible with their application in water treatment. Aquatic Toxicology, 2020, 227, 105595.	1.9	5
65	Preparation of compounds using RF-induction. Journal of Non-Crystalline Solids, 2008, 354, 5292-5294.	1.5	4
66	Bottom-up nanofabrication using self-organized porous templates. Journal of Physics: Conference Series, 2014, 534, 012001.	0.3	4
67	Cylindrical magnetic nanotubes: Synthesis, magnetism and applications. , 2020, , 135-184.		4
68	The Morphological Characterization of Anodic TiO ₂ Nanotube Arrays. Microscopy and Microanalysis, 2015, 21, 39-40.	0.2	3
69	Influence of Mn addition on magnetic and structural properties of barium hexaferrite. , 2013, , .		2
70	Influence of the Electrodeposition Cathodic Potential on the Composition and Magnetic Properties of CoNi Nanowires. Solid State Phenomena, 0, 214, 32-39.	0.3	2
71	Synchrotron small angle X-ray scattering for the evaluation of the interaction of silica nanotubes with lipid membranes. RSC Advances, 2013, 3, 10323.	1.7	1
72	Preparation and characterization of Fe-Si-B thin films. , 2013, , .		1

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73	Highly Ordered Hexagonal Arrays of TiO ₂ Nanotubes. <i>Microscopy and Microanalysis</i> , 2015, 21, 5-6.	0.2	1
74	Dynamical behavior of ferromagnetic nanowire arrays: From 1-D to 3-D. , 2020, , 559-611.		1
75	Fabrication of FePt nanowires through pulsed electrodeposition into nanoporous alumina templates. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 3573-3584.	1.6	1
76	Influence of the electrodeposition cathodic potential on the composition and magnetic properties of CoNi nanowires. , 2013, , .		0
77	Ag-nanowire metamaterials: spectral reflectance analysis and homogenization models. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
78	Reversal processes in CoCrPt thin films with perpendicular magnetic anisotropy. , 2017, , .		0