

# Cã©lia T Sousa

## List of Publications by Year in descending order

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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	Fabrication of FePt nanowires through pulsed electrodeposition into nanoporous alumina templates. Applied Nanoscience (Switzerland), 2022, 12, 3573-3584.	1.6	1
2	Magnetic reversal modes in cylindrical nanostructures: from disks to wires. Scientific Reports, 2021, 11, 10100.	1.6	12
3	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
4	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
5	Magnetic Nanomaterials as Contrast Agents for MRI. Materials, 2020, 13, 2586.	1.3	101
6	Tailoring the Anodic Hafnium Oxide Morphology Using Different Organic Solvent Electrolytes. Nanomaterials, 2020, 10, 382.	1.9	6
7	Magnetic nanostructures for emerging biomedical applications. Applied Physics Reviews, 2020, 7, .	5.5	51
8	Cylindrical magnetic nanotubes: Synthesis, magnetism and applications. , 2020, , 135-184.		4
9	Dynamical behavior of ferromagnetic nanowire arrays: From 1-D to 3-D. , 2020, , 559-611.		1
10	Photoelectrochemical Water Splitting: Thermal Annealing Challenges on Hematite Nanowires. Journal of Physical Chemistry C, 2020, 124, 12897-12911.	1.5	24
11	EGCG intestinal absorption and oral bioavailability enhancement using folic acid-functionalized nanostructured lipid carriers. Heliyon, 2019, 5, e02020.	1.4	31
12	Double-walled iron oxide nanotubes via selective chemical etching and Kirkendall process. Scientific Reports, 2019, 9, 11994.	1.6	13
13	The Role of Cu Length on the Magnetic Behaviour of Fe/Cu Multi-Segmented Nanowires. Nanomaterials, 2018, 8, 490.	1.9	31
14	Tailoring Bi-Te based nanomaterials by electrodeposition: Morphology and crystalline structure. Materials and Design, 2017, 118, 168-174.	3.3	12
15	Identifying weakly-interacting single domain states in Ni nanowire arrays by FORC. Journal of Alloys and Compounds, 2017, 699, 421-429.	2.8	26
16	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
17	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
18	Reversal processes in CoCrPt thin films with perpendicular magnetic anisotropy. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Tuning the magnetic properties of multisegmented Ni/Cu electrodeposited nanowires with controllable Ni lengths. <i>Nanotechnology</i> , 2016, 27, 335301.	1.3	38
20	Tin oxide as stable protective layer for composite cuprous oxide water-splitting photocathodes. <i>Nano Energy</i> , 2016, 24, 10-16.	8.2	84
21	Unbiased solar energy storage: Photoelectrochemical redox flow battery. <i>Nano Energy</i> , 2016, 22, 396-405.	8.2	63
22	The effect of electrolyte re-utilization in the growth rate and morphology of TiO <sub>2</sub> nanotubes. <i>Materials Letters</i> , 2016, 171, 224-227.	1.3	8
23	The Morphological Characterization of Anodic TiO <sub>2</sub> Nanotube Arrays. <i>Microscopy and Microanalysis</i> , 2015, 21, 39-40.	0.2	3
24	Highly Ordered Hexagonal Arrays of TiO <sub>2</sub> Nanotubes. <i>Microscopy and Microanalysis</i> , 2015, 21, 5-6.	0.2	1
25	The cyclic nature of porosity in anodic TiO <sub>2</sub> nanotube arrays. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3692-3698.	5.2	15
26	Magnetocaloric effect in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> nanotube arrays with broad working temperature span. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	14
27	Modeling the Growth Kinetics of Anodic TiO <sub>2</sub> Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 845-851.	2.1	26
28	Electrochemical synthesis and magnetism of magnetic nanotubes. , 2015, , 727-781.		7
29	Influence of sol-gel parameters in the fabrication of ferromagnetic La <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> nanotube arrays. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 200, 117-123.	1.7	6
30	Study of magnetoelastic and magnetocrystalline anisotropies in Co Ni <sup>1+</sup> nanowire arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 374, 663-668.	1.0	8
31	Bottom-up nanofabrication using self-organized porous templates. <i>Journal of Physics: Conference Series</i> , 2014, 534, 012001.	0.3	4
32	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
33	Ferromagnetic Sorbents Based on Nickel Nanowires for Efficient Uptake of Mercury from Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 8274-8280.	4.0	33
34	Tailoring the Ti surface via electropolishing nanopatterning as a route to obtain highly ordered TiO <sub>2</sub> nanotubes. <i>Nanotechnology</i> , 2014, 25, 485301.	1.3	10
35	Ultra-long Fe nanowires by pulsed electrodeposition with full filling of alumina templates. <i>Materials Research Express</i> , 2014, 1, 015028.	0.8	25
36	Angular first-order reversal curves: an advanced method to extract magnetization reversal mechanisms and quantify magnetostatic interactions. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 116004.	0.7	30

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37	The role of the Ti surface roughness in the self-ordering of TiO <sub>2</sub> nanotubes: a detailed study of the growth mechanism. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9067-9078.	5.2	52
38	Room temperature magnetocaloric effect and refrigerant capacitance in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> nanotube arrays. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	34
39	Nanoporous alumina as templates for multifunctional applications. <i>Applied Physics Reviews</i> , 2014, 1, 031102.	5.5	225
40	Temperature dependence of the training effect in electrodeposited Co/CoO nanotubes. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	8
41	Influence of the electrodeposition cathodic potential on the composition and magnetic properties of CoNi nanowires. , 2013, , .		0
42	Correlations among magnetic, electrical and magneto-transport properties of NiFe nanohole arrays. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 066007.	0.7	7
43	Co nanostructures in ordered templates: comparative FORC analysis. <i>Nanotechnology</i> , 2013, 24, 475703.	1.3	46
44	Exciting the optical response of nanowire metamaterial films on the tip of optical fibres. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 664-667.	1.2	6
45	Functionalization of nickel nanowires with a fluorophore aiming at new probes for multimodal bioanalysis. <i>Journal of Colloid and Interface Science</i> , 2013, 410, 21-26.	5.0	20
46	Magnetic interactions and reversal mechanisms in Co nanowire and nanotube arrays. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	95
47	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
48	Synchrotron small angle X-ray scattering for the evaluation of the interaction of silica nanotubes with lipid membranes. <i>RSC Advances</i> , 2013, 3, 10323.	1.7	1
49	Room Temperature Magnetic Rare-Earth Iron Garnet Thin Films with Ordered Mesoporous Structure. <i>Chemistry of Materials</i> , 2013, 25, 2527-2537.	3.2	33
50	Ag-nanowire metamaterials: spectral reflectance analysis and homogenization models. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
51	Influence of Mn addition on magnetic and structural properties of barium hexaferrite. , 2013, , .		2
52	Preparation and characterization of Fe-Si-B thin films. , 2013, , .		1
53	Influence of the Rest Pulse Duration in Pulsed Electrodeposition of Fe Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 9112-9117.	0.9	19
54	Probing the Quality of Ni Filled Nanoporous Alumina Templates by Magnetic Techniques. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 7486-7490.	0.9	13

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55	off-centering of Cr <sup>3+</sup> ions and short-range magneto-electric clusters in CdCr <sub>3</sub> and short-range magneto-electric clusters in CdCr <sub>3</sub> ions Journal of Applied Physics, 2012, 112, 084301.	1.1	28
56	Microstructure and magnetic properties of (Fe <sub>100-x</sub> Co <sub>x</sub> ) <sub>84.5</sub> Nb <sub>5</sub> B <sub>8.5</sub> P <sub>2</sub> alloys. Journal of Alloys and Compounds, 2012, 536, S337-S341.	2.8	6
57	Precise control of the filling stages in branched nanopores. Journal of Materials Chemistry, 2012, 22, 3110.	6.7	27
58	Tailoring the physical properties of thin nanohole arrays grown on flat anodic aluminum oxide templates. Nanotechnology, 2012, 23, 425701.	1.3	23
59	Distinguishing nanowire and nanotube formation by the deposition current transients. Nanoscale Research Letters, 2012, 7, 280.	3.1	37
60	CROSSOVER BETWEEN MAGNETIC REVERSAL MODES IN ORDERED Ni AND Co NANOTUBE ARRAYS. Spin, 2012, 02, 1250014.	0.6	32
61	Structural, Optical, and Magnetic Properties of Highly Ordered Mesoporous MCr <sub>2</sub> O <sub>4</sub> and MCr <sub>2</sub> FeO <sub>4</sub> (M = Co, Zn) Spinel Thin Films with Uniform 15 nm Diameter Pores and Tunable Nanocrystalline Domain Sizes. Chemistry of Materials, 2012, 24, 155-165.	3.2	43
62	Birefringence swap at the transition to hyperbolic dispersion in metamaterials. Physical Review B, 2012, 85, .	1.1	18
63	pH sensitive silica nanotubes as rationally designed vehicles for NSAIDs delivery. Colloids and Surfaces B: Biointerfaces, 2012, 94, 288-295.	2.5	21
64	Ni growth inside ordered arrays of alumina nanopores: Enhancing the deposition rate. Electrochimica Acta, 2012, 72, 215-221.	2.6	72
65	A versatile synthesis method of dendrites-free segmented nanowires with a precise size control. Nanoscale Research Letters, 2012, 7, 168.	3.1	14
66	Nanoscale Topography: A Tool to Enhance Pore Order and Pore Size Distribution in Anodic Aluminum Oxide. Journal of Physical Chemistry C, 2011, 115, 8567-8572.	1.5	48
67	Size and surface effects on the magnetic properties of NiO nanoparticles. Physical Chemistry Chemical Physics, 2011, 13, 9561.	1.3	140
68	Insights into the role of magnetoelastic anisotropy in the magnetization reorientation of magnetic nanowires. Physical Review B, 2011, 84, .	1.1	21
69	Tuning pore filling of anodic alumina templates by accurate control of the bottom barrier layer thickness. Nanotechnology, 2011, 22, 315602.	1.3	65
70	Study of Nanostructured Array of Antidots Using Pulsed Magnetic Fields. Journal of Low Temperature Physics, 2010, 159, 245-248.	0.6	12
71	Delocalized versus localized magnetization reversal in template-grown Ni and nanowires. Journal of Magnetism and Magnetic Materials, 2010, 322, 1319-1322.	1.0	17
72	Rapid Synthesis of Ordered Manganite Nanotubes by Microwave Irradiation in Alumina Templates. Journal of Nanoscience and Nanotechnology, 2009, 9, 6084-6088.	0.9	12

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73	Influence of surface pre-treatment in the room temperature fabrication of nanoporous alumina. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 3488-3491.	0.8	16
74	Effect of Nonsteroidal Anti-Inflammatory Drugs on the Cellular Membrane Fluidity. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 3195-3206.	1.6	30
75	Nanopore formation and growth in phosphoric acid Al anodization. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5238-5240.	1.5	29
76	Characterization of electrodeposited Ni and Ni <sub>80</sub> Fe <sub>20</sub> nanowires. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5241-5243.	1.5	17
77	Preparation of compounds using RF-induction. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5292-5294.	1.5	4
78	Influence of the Electrodeposition Cathodic Potential on the Composition and Magnetic Properties of CoNi Nanowires. <i>Solid State Phenomena</i> , 0, 214, 32-39.	0.3	2