N J O Silva

List of Publications by Year
in descending order

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76 papers	4,160 citations	185998 28 h-index	110170 64 g-index
79 all docs	79 docs citations	79 times ranked	5405 citing authors

#	Article	IF	Citations
1	Thermometry at the nanoscale. Nanoscale, 2012, 4, 4799.	2.8	1,258
2	A Luminescent Molecular Thermometer for Longâ€Term Absolute Temperature Measurements at the Nanoscale. Advanced Materials, 2010, 22, 4499-4504.	11.1	405
3	Lanthanide-based luminescent molecular thermometers. New Journal of Chemistry, 2011, 35, 1177.	1.4	266
4	Surface effects in maghemite nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 312, L5-L9.	1.0	179
5	Joining Time-Resolved Thermometry and Magnetic-Induced Heating in a Single Nanoparticle Unveils Intriguing Thermal Properties. ACS Nano, 2015, 9, 3134-3142.	7.3	135
6	Nanoscopic Photoluminescence Memory as a Fingerprint of Complexity in Self-Assembled Alkyl/Siloxane Hybrids. Advanced Materials, 2007, 19, 341-348.	11.1	101
7	Photoluminescence and Quantum Yields of Urea and Urethane Cross-Linked Nanohybrids Derived from Carboxylic Acid Solvolysis. Chemistry of Materials, 2004, 16, 1507-1516.	3.2	100
8	Relevance of magnetic moment distribution and scaling law methods to study the magnetic behavior of antiferromagnetic nanoparticles: Application to ferritin. Physical Review B, 2005, 71, .	1.1	87
9	Ratiometric highly sensitive luminescent nanothermometers working in the room temperature range. Applications to heat propagation in nanofluids. Nanoscale, 2013, 5, 7572.	2.8	87
10	Structureâ€“photoluminescence relationship in Eu(iii) Î²-diketonate-based organicâ€“inorganic hybrids. Influence of the synthesis method: carboxylic acid solvolysis versus conventional hydrolysis. Journal of Materials Chemistry, 2005, 15, 3117.	6.7	86
11	Contact angles and wettability of ionic liquids on polar and non-polar surfaces. Physical Chemistry Chemical Physics, 2015, 17, 31653-31661.	1.3	77
12	Electro-precipitation of Fe3O4 nanoparticles in ethanol. Journal of Magnetism and Magnetic Materials, 2008, 320, 2311-2315.	1.0	73
13	Efficient sorbents based on magnetite coated with siliceous hybrid shells for removal of mercury ions. Journal of Materials Chemistry A, 2013, 1, 8134.	5.2	71
14	A mean-field scaling method for first- and second-order phase transition ferromagnets and its application in magnetocaloric studies. Applied Physics Letters, 2007, 91, .	1.5	64
15	Thermometry at the nanoscale using lanthanide-containing organicâ€“inorganic hybrid materials. Journal of Luminescence, 2013, 133, 230-232.	1.5	56
16	Local Structure and Near-Infrared Emission Features of Neodymium-Based Amine Functionalized Organic/Inorganic Hybrids. Journal of Physical Chemistry B, 2005, 109, 20093-20104.	1.2	52
17	Temperature dependence of antiferromagnetic susceptibility in ferritin. Physical Review B, 2009, 79, .	1.1	45
18	Biofunctionalized magnetic hydrogel nanospheres of magnetite and Îº-carrageenan. Nanotechnology, 2009, 20, 355602.	1.3	45

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19	Estimating spontaneous magnetization from a mean field analysis of the magnetic entropy change. Journal of Magnetism and Magnetic Materials, 2010, 322, 1569-1571.	1.0	45
20	Photopatternable Di-ureasilâˆ’Zirconium Oxocluster Organicâˆ’Inorganic Hybrids As Cost Effective Integrated Optical Substrates. Chemistry of Materials, 2008, 20, 3696-3705.	3.2	44
21	Multifunctional micro- and nanosized metalâ€“organic frameworks assembled from bisphosphonates and lanthanides. Journal of Materials Chemistry C, 2014, 2, 3311.	2.7	44
22	Surface and core magnetic anisotropy in maghemite nanoparticles determined by pressure experiments. Applied Physics Letters, 2009, 94, .	1.5	42
23	Implementing Thermometry on Silicon Surfaces Functionalized by Lanthanideâ€Doped Selfâ€Assembled Polymer Monolayers. Advanced Functional Materials, 2016, 26, 200-209.	7.8	42
24	Organicâ€“Inorganic Eu3+/Tb3+ codoped hybrid films for temperature mapping in integrated circuits. Frontiers in Chemistry, 2013, 1, 9.	1.8	41
25	Magnetic hyperthermia with Îµ-Fe₂O₃ nanoparticles. RSC Advances, 2020, 10, 28786-28797.	1.7	36
26	Water-mediated structural tunability of an alkyl/siloxane hybrid: from amorphous material to lamellar structure or bilamellar superstructure. RSC Advances, 2012, 2, 2087.	1.7	35
27	Magnetic and relaxation properties of multifunctional polymerâ€based nanostructured bioferrofluids as MRI contrast agents. Magnetic Resonance in Medicine, 2011, 66, 1715-1721.	1.9	30
28	Polymer encapsulation effects on the magnetism of EuS nanocrystals. Journal of Materials Chemistry, 2008, 18, 4572.	6.7	29
29	Shifted loops and coercivity from field-imprinted high-energy barriers in ferritin and ferrihydrite nanoparticles. Physical Review B, 2011, 84, .	1.1	29
30	Synthesis of cobalt aluminate nanopigments by a non-aqueous solâ€“gel route. Nanoscale, 2013, 5, 4277.	2.8	27
31	Synthesis, characterisation and magnetic properties of cobalt (II) complexes with 3-hydroxypicolinic acid (HpicOH): [Co(picOH)2(H2O)2] and mer-[N(CH3)4][Co(picOH)3]Â·H2O. Polyhedron, 2005, 24, 563-569.	1.0	26
32	Akaganeite polymer nanocomposites. Polymer, 2009, 50, 1088-1094.	1.8	25
33	Metalâ€“Organic Frameworks Assembled From Erbium Tetramers and 2,5-Pyridinedicarboxylic Acid. Crystal Growth and Design, 2013, 13, 2607-2617.	1.4	25
34	Integrated Optical Mach-Zehnder Interferometer Based on Organic-Inorganic Hybrids for Photonics-on-a-Chip Biosensing Applications. Sensors, 2018, 18, 840.	2.1	24
35	Evidence of random magnetic anisotropy in ferrihydrite nanoparticles based on analysis of statistical distributions. Physical Review B, 2008, 77, .	1.1	23
36	Mixedâ€Metal dâ€f Phosphonate Frameworks â€“ Photoluminescence and Magnetic Properties. European Journal of Inorganic Chemistry, 2011, 2011, 2035-2044.	1.0	23

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37	In situ functionalization of a cellulosic-based activated carbon with magnetic iron oxides for the removal of carbamazepine from wastewater. Environmental Science and Pollution Research, 2021, 28, 18314-18327.	2.7	23
38	Carrageenan-grafted magnetite nanoparticles as recyclable sorbents for dye removal. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	22
39	Synthesis, characterisation and magnetic properties of copper(II) complexes with 3-hydroxypicolinic acid (HpicOH): the crystal structure of [Cu(picOH)2(BPE)]2Â·[Cu(picOH)2(BPE)2]Â·8H2O. Journal of Molecular Structure, 2005, 737, 221-229.	1.8	21
40	Ferrihydrite antiferromagnetic nanoparticles in a solâ€“gel derived organicâ€“inorganic matrix. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1549-1550.	1.0	19
41	Structural and magnetic studies in ferrihydrite nanoparticles formed within organic-inorganic hybrid matrices. Journal of Applied Physics, 2006, 100, 054301.	1.1	19
42	Comment on â€œThermoinduced Magnetization in Nanoparticles of Antiferromagnetic Materialsâ€• Physical Review Letters, 2005, 94, 039707; author reply 039708.	2.9	18
43	Remanent magnetization in CoO antiferromagnetic nanoparticles. Physical Review B, 2010, 82, .	1.1	18
44	Co^{II}/Zn^{II}â€“(<scp>L</scp>â€Tyrosine) Magnetic Metalâ€“Organic Frameworks. European Journal of Inorganic Chemistry, 2012, 2012, 5259-5268.	1.0	18
45	Magnetic properties of Fe-doped organicâ€“inorganic nanohybrids. Journal of Applied Physics, 2003, 93, 6978-6980.	1.1	17
46	Matrix assisted formation of ferrihydrite nanoparticles in a siloxane/poly(oxyethylene) nanohybrid. Journal of Materials Chemistry, 2005, 15, 484.	6.7	17
47	Nano-Localized Thermal Analysis and Mapping of Surface and Sub-Surface Thermal Properties Using Scanning Thermal Microscopy (SThM). Microscopy and Microanalysis, 2016, 22, 1270-1280.	0.2	15
48	Radial inhomogeneities induced by fiber diameter in electrically assisted LFZ growth of Bi-2212. Applied Surface Science, 2009, 255, 5503-5506.	3.1	14
49	Shell pressure on the core of MnO/Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math> core/shell nanoparticles. Physical Review B, 2013, 87, .	1.1	12
50	Cobalt(<scp>ii</scp>)â€“pyrazineâ€“chloride coordination polymers: synthesis, reactivity and magnetic properties. CrystEngComm, 2014, 16, 10439-10444.	1.3	12
51	Effect of presence of an acid catalyst on structure and properties of iron-doped siloxane-polyoxyethylene nanocomposites prepared by solâ€“gel. Journal of Non-Crystalline Solids, 2004, 345-346, 585-590.	1.5	11
52	Influence of structural and magnetic properties in the heating performance of multicore bioferrofluids. Physical Review B, 2013, 88, .	1.1	11
53	Cobalt aluminate nanoparticles supported on MIL-101 structure: catalytic performance investigation. RSC Advances, 2015, 5, 4175-4183.	1.7	11
54	Structure of magnetic poly(oxyethylene)â€“siloxane nanohybrids doped with FeIIand FeIII. Journal of Applied Crystallography, 2003, 36, 961-966.	1.9	10

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55	Influence of the surface termination on the light emission of crystalline silicon nanoparticles. Nanotechnology, 2016, 27, 325703.	1.3	9
56	Temperature-responsive nanomagnetic logic gates for cellular hyperthermia. Materials Horizons, 2019, 6, 524-530.	6.4	9
57	Effects of pressure on maghemite nanoparticles with a core/shell structure. Journal of Magnetism and Magnetic Materials, 2010, 322, 2117-2126.	1.0	8
58	Multiple-length-scale small-angle X-ray scattering analysis on maghemite nanocomposites. Journal of Applied Crystallography, 2007, 40, s696-s700.	1.9	7
59	A Single-Source Route for the Synthesis of Metal Oxide Nanoparticles Using Vegetable Oil Solvents. Journal of Nanoscience and Nanotechnology, 2012, 12, 8963-8968.	0.9	7
60	Magnetically responsive dry fluids. Nanoscale, 2013, 5, 7229.	2.8	7
61	Bionanocomposites for Magnetic Removal of Water Pollutants. Advanced Structured Materials, 2015, , 279-310.	0.3	7
62	Heterometallic complexes involving iron(ii) and rhenium(vii) centers connected by Î¼-oxido bridges. Dalton Transactions, 2009, , 10199.	1.6	6
63	Particle-diameter dependence of the coercive field in FePt nanoparticles with a face-centered tetragonal structure. Journal of Applied Physics, 2010, 108, 124315.	1.1	5
64	Neutron diffraction and magnetism of CoO antiferromagnetic nanoparticles. Journal of Physics: Conference Series, 2011, 325, 012020.	0.3	5
65	Texture-induced magnetic interactions in ferrofluids. Journal of Applied Physics, 2012, 111, 093910.	1.1	5
66	Density Gradient Selection of Colloidal Silver Nanotriangles for Assembling Dye-Particle Plasmophores. Nanomaterials, 2019, 9, 893.	1.9	5
67	Superferromagnetism in mechanically alloyed fcc Fe₂₃Cu₇₇with bimodal cluster size distribution. Journal of Physics Condensed Matter, 2009, 21, 046003.	0.7	4
68	Magnetic behavior of iron (III) oxyhydroxy nanoparticles in organicâ€“inorganic hybrid matrices. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 962-965.	1.0	2
69	Comment on â€œMagnetization reversal in europium sulfide nanocrystalsâ€•[Appl. Phys. Lett. 89, 222501 (2006)]. Applied Physics Letters, 2008, 92, 026102.	1.5	2
70	Efficient Brownian oscillators and nanoheaters based on gallium-doped Îµ-Fe2O3. Chemical Communications, 2021, 57, 2285-2288.	2.2	2
71	Magnetic Sol-Gel Derived Poly(oxyethylene)- Siloxane Nanohybrids. Materials Research Society Symposia Proceedings, 2002, 726, 1.	0.1	1
72	Effects of pressure on magnetic properties of ferrihydrite antiferromagnetic nanoparticles. Journal of Physics: Conference Series, 2009, 150, 042098.	0.3	1

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73	Pressure effects in hollow and solid iron oxide nanoparticles. Journal of Magnetism and Magnetic Materials, 2013, 335, 1-5.	1.0	1
74	Scanning Thermal Microscopy: Nano-localized Thermal Analysis and Mapping of Surface and Subsurface Thermal Properties. Microscopy and Microanalysis, 2016, 22, 2-3.	0.2	1
75	Chapter 8. Organicâ€“Inorganic Hybrids Thermometry. RSC Nanoscience and Nanotechnology, 2015, , 237-272.	0.2	1
76	Scaling laws and approximate expressions for the dynamic magnetic susceptibility of Brownian nanoparticles. Journal of Magnetism and Magnetic Materials, 2011, 323, 3259-3264.	1.0	0