Alessandro Lascialfari

List of Publications by Year
in descending order

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62 papers	1,254 citations	361413 20 h-index	395702 33 g-index
62 all docs	62 docs citations	62 times ranked	2330 citing authors

#	Article	IF	Citations
1	Magnetic Resonance Imaging Contrast Agents Based on Iron Oxide Superparamagnetic Ferrofluids. Chemistry of Materials, 2010, 22, 1739-1748.	6.7	140
2	Role of Zn²⁺ Substitution on the Magnetic, Hyperthermic, and Relaxometric Properties of Cobalt Ferrite Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 6148-6157.	3.1	65
3	Magnetic, optical and relaxometric properties of organically coated goldâ€“magnetite (Auâ€“Fe3O4) hybrid nanoparticles for potential use in biomedical applications. Journal of Magnetism and Magnetic Materials, 2012, 324, 2373-2379.	2.3	64
4	Observation of Magnetic Level Repulsion in Fe6:Li Molecular Antiferromagnetic Rings. Physical Review Letters, 2002, 88, 167201.	7.8	56
5	Hybrid iron oxide-copolymer micelles and vesicles as contrast agents for MRI: impact of the nanostructure on the relaxometric properties. Journal of Materials Chemistry B, 2013, 1, 5317.	5.8	56
6	Magnetic Nanoparticles from Magnetospirillum gryphiswaldense Increase the Efficacy of Thermotherapy in a Model of Colon Carcinoma. PLoS ONE, 2014, 9, e108959.	2.5	49
7	On the use of superparamagnetic hydroxyapatite nanoparticles as an agent for magnetic and nuclear in vivo imaging. Acta Biomaterialia, 2018, 73, 458-469.	8.3	49
8	Anomalous doping dependence of fluctuation-induced diamagnetism inY1â^'xCaxBa2Cu3Oysuperconductors. Physical Review B, 2002, 65, .	3.2	44
9	Superparamagnetic iron oxide nanoparticles functionalized by peptide nucleic acids. RSC Advances, 2017, 7, 15500-15512.	3.6	43
10	Precursor diamagnetism above the superconducting transition inLa1.9Sr0.1CuO4. Physical Review B, 2003, 68, .	3.2	38
11	Cell Membraneâ€Coated Magnetic Nanocubes with a Homotypic Targeting Ability Increase Intracellular Temperature due to ROS Scavenging and Act as a Versatile Theranostic System for Glioblastoma Multiforme. Advanced Healthcare Materials, 2019, 8, e1900612.	7.6	36
12	Characterization of magnetic nanoparticles from Magnetospirillum Gryphiswaldense as potential theranostics tools. Contrast Media and Molecular Imaging, 2016, 11, 139-145.	0.8	34
13	Proton NMR wipeout effect due to slow fluctuations of the magnetization in single molecule magnets. Physical Review B, 2005, 72, .	3.2	27
14	PETER PHAN: An MRI phantom for the optimisation of radiomic studies of the female pelvis. Physica Medica, 2020, 71, 71-81.	0.7	27
15	Superconducting phase fluctuations in SmFeAsO0.8F0.2from diamagnetism at a low magnetic field aboveTc. Physical Review B, 2011, 84, .	3.2	24
16	Low temperature magnetic properties and spin dynamics in single crystals of Cr8Zn antiferromagnetic molecular rings. Journal of Chemical Physics, 2015, 143, 244321.	3.0	23
17	NMR relaxation induced by iron oxide particles: testing theoretical models. Nanotechnology, 2016, 27, 155706.	2.6	23
18	Tailoring the magnetic core of organic-coated iron oxides nanoparticles to influence their contrast efficiency for MagneticÂResonance Imaging. Journal of Alloys and Compounds, 2019, 770, 58-66.	5.5	22

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19	A multicenter study on radiomic features from T 2 â€weighted images of a customized MR pelvic phantom setting the basis for robust radiomic models in clinics. Magnetic Resonance in Medicine, 2021, 85, 1713-1726.	3.0	22
20	Spin dynamics at the level crossing in the molecular antiferromagnetic ring[Cr8F8Piv16]from proton NMR. Physical Review B, 2005, 72, .	3.2	20
21	Motor and higherâ€order functions topography of the human dentate nuclei identified with tractography and clustering methods. Human Brain Mapping, 2021, 42, 4348-4361.	3.6	20
22	Superconducting diamagnetic fluctuations inMgB2. Physical Review B, 2002, 65, .	3.2	19
23	On the magnetic anisotropy and nuclear relaxivity effects of Co and Ni doping in iron oxide nanoparticles. Journal of Applied Physics, 2016, 119, .	2.5	19
24	Relaxation dynamics in the frustrated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Cr</mml:mi><mml:mn>9</mml:mn></mml:msub></mml: ring probed by NMR. Physical Review B, 2016, 93, .	3.2	19
25	Superconducting diamagnetic fluctuations in Sm-based underdoped cuprates studied via SQUID magnetometry. Physical Review B, 2010, 81, .	3.2	18
26	Default Mode Network Structural Integrity and Cerebellar Connectivity Predict Information Processing Speed Deficit in Multiple Sclerosis. Frontiers in Cellular Neuroscience, 2019, 13, 21.	3.7	18
27	Tuning the architectural integrity of high-performance magneto-fluorescent core-shell nanoassemblies in cancer cells. Journal of Colloid and Interface Science, 2016, 479, 139-149.	9.4	17
28	Inhibition of lysozyme fibrillogenesis by hydroxytyrosol and dopamine: An Atomic Force Microscopy study. International Journal of Biological Macromolecules, 2018, 111, 1100-1105.	7.5	15
29	Elongated magnetic nanoparticles with high-aspect ratio: a nuclear relaxation and specific absorption rate investigation. Physical Chemistry Chemical Physics, 2019, 21, 18741-18752.	2.8	15
30	Magnetic properties and spin dynamics of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi><mml:mo>â^'</mml:mo><mml:mn>4</mml:mn><mml:mi>f complexes. Physical Review B, 2011, 84, .	3.2	14
31	Local spin dynamics of iron oxide magnetic nanoparticles dispersed in different solvents with variable size and shape: A 1H NMR study. Journal of Chemical Physics, 2017, 146, 034703.	3.0	14
32	Personalized Dosimetry in Targeted Radiation Therapy: A Look to Methods, Tools and Critical Aspects. Journal of Personalized Medicine, 2022, 12, 205.	2.5	14
33	NMR-D study of the local spin dynamics and magnetic anisotropy in different nearly monodispersed ferrite nanoparticles. Journal of Physics Condensed Matter, 2013, 25, 066008.	1.8	13
34	PEGylated Anionic Magnetofluorescent Nanoassemblies: Impact of Their Interface Structure on Magnetic Resonance Imaging Contrast and Cellular Uptake. ACS Applied Materials & Interfaces, 2017, 9, 14242-14257.	8.0	13
35	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>1</mml:mn></mml:msup></mml:math>H-NMR study of the spin dynamics of fine superparamagnetic nanoparticles. Physical Review B, 2012, 85, .	3.2	12
36	MR imaging and targeting of human breast cancer cells with folate decorated nanoparticles. RSC Advances, 2015, 5, 39760-39770.	3.6	12

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37	Reproducibility of radiomic features in CT images of NSCLC patients: an integrative analysis on the impact of acquisition and reconstruction parameters. European Radiology Experimental, 2022, 6, 2.	3.4	12
38	Effects of extremely low-frequency magnetotherapy on proliferation of human dermal fibroblasts. Electromagnetic Biology and Medicine, 2016, 35, 343-352.	1.4	9
39	Optimized PAMAM coated magnetic nanoparticles for simultaneous hyperthermic treatment and contrast enhanced MRI diagnosis. RSC Advances, 2017, 7, 44104-44111.	3.6	9
40	Precursor diamagnetism above the superconducting transition in YNi $_\mathsf{2}$ B $_\mathsf{2}$ C. European Physical Journal B, 2003, 35, 325-329.	1.5	8
41	Conjugation of a GM3 lactone mimetic on carbon nanotubes enhances the related inhibition of melanoma-associated metastatic events. Organic and Biomolecular Chemistry, 2018, 16, 6086-6095.	2.8	8
42	Coating Effect on the 1Hâ€"NMR Relaxation Properties of Iron Oxide Magnetic Nanoparticles. Nanomaterials, 2020, 10, 1660.	4.1	8
43	Breaking the ring: 53Cr-NMR on the Cr8Cd molecular nanomagnet. Journal of Physics Condensed Matter, 2020, 32, 244003.	1.8	8
44	Analysis and reduction of thermal dose errors in MRgFUS treatment. Physica Medica, 2014, 30, 111-116.	0.7	7
45	Superconducting Fluctuating Diamagnetism Versus Precursor Diamagnetism in Heterogeneous Superconductors. Journal of Superconductivity and Novel Magnetism, 2005, 18, 763-767.	0.5	6
46	Superconducting fluctuating diamagnetism in neutron irradiated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Mg</mml:mi><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>in relation to precursor diamagnetism in Al-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant=	3.2	6
47	Spin dynamics in the single-ion magnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mo>[</mml:mo><mml:mrow><mml:mi>Er</m Physical Review B, 2018, 97, .	3.2	6
48	X-ray magnetic circular dichroism discloses surface spins correlation in maghemite hollow nanoparticles. Applied Physics Letters, 2018, 112, 022404.	3.3	6
49	Localized and itinerant electronic states at the insulatorâ€"metal transition in Y1â^'xCaxVO3+Î´: evidence from electric transport, magnetic properties and XAS spectroscopy. Physical Chemistry Chemical Physics, 2003, 5, 4691-4698.	2.8	5
50	NMR as Evaluation Strategy for Cellular Uptake of Nanoparticles. Nano Letters, 2014, 14, 3959-3965.	9.1	5
51	Fluctuation Effects and Anomalous Diamagnetism in YBCO124 and in Underdoped YBCO123 from Susceptibility and 63Cu Nuclear Relaxation. International Journal of Modern Physics B, 1999, 13, 1123-1129.	2.0	4
52	Magnetic properties and hyperfine interactions in Cr8, Cr7Cd, and Cr7Ni molecular rings from 19F-NMR. Journal of Chemical Physics, 2014, 140, 144306.	3.0	4
53	Comparison of spin dynamics and magnetic properties in antiferromagnetic closed and open molecular Cr-based rings. Journal of Physics Condensed Matter, 2015, 27, 506001.	1.8	4
54	High temperature spin dynamics in linear magnetic chains, molecular rings, and segments by nuclear magnetic resonance. Journal of Applied Physics, 2015, 117, 17B308.	2.5	4

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55	Low-temperature anomalies in muon spin relaxation of solid and hollowÎ³â^'Fe2O3nanoparticles: A pathway to detect unusual local spin dynamics. Physical Review B, 2020, 102, .	3.2	4
56	Longitudinal and transverse NMR relaxivities of Ln(III)-DOTA complexes: A comprehensive investigation. Journal of Chemical Physics, 2021, 155, 214201.	3.0	4
57	Proton NMR and susceptibility measurements on the magnetic core of ferritin. Applied Magnetic Resonance, 2000, 19, 557-562.	1.2	3
58	On the low-energy excitations in superconductingYNi2B2CfromB11NMR relaxation around the critical field. Physical Review B, 2005, 71, .	3.2	3
59	Low temperature spin dynamics in Cr7Ni-Cu-Cr7Ni coupled molecular rings. Journal of Applied Physics, 2014, 115, .	2.5	2
60	A method for T1 and T2 relaxation times validation and harmonization as a support to MRI mapping. Journal of Magnetic Resonance, 2022, 334, 107110.	2.1	2
61	Discrimination of Tumor Texture Based on MRI Radiomic Features: Is There a Volume Threshold? A Phantom Study. Applied Sciences (Switzerland), 2022, 12, 5465.	2.5	2
62	ANOMALOUS DOPING DEPENDENCE OF THE FLUCTUATION-INDUCED DIAMAGNETISM IN SUPERCONDUCTORS OF YBCO FAMILY. International Journal of Modern Physics B, 2003, 17, 785-790.	2.0	1