

# Alessandro Lascialfari

## List of Publications by Year in descending order

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62  
papers

1,254  
citations

361388

20  
h-index

395678

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. <i>Chemistry of Materials</i> , 2010, 22, 1739-1748.	6.7	140
2	Role of Zn <sup>2+</sup> Substitution on the Magnetic, Hyperthermic, and Relaxometric Properties of Cobalt Ferrite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6148-6157.	3.1	65
3	Magnetic, optical and relaxometric properties of organically coated gold-iron magnetite (Au-Fe <sub>3</sub> O <sub>4</sub> ) hybrid nanoparticles for potential use in biomedical applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 2373-2379.	2.3	64
4	Observation of Magnetic Level Repulsion in Fe <sub>6</sub> Li Molecular Antiferromagnetic Rings. <i>Physical Review Letters</i> , 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. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5317.	5.8	56
6	Magnetic Nanoparticles from <i>Magnetospirillum gryphiswaldense</i> Increase the Efficacy of Thermo-therapy in a Model of Colon Carcinoma. <i>PLoS ONE</i> , 2014, 9, e108959.	2.5	49
7	On the use of superparamagnetic hydroxyapatite nanoparticles as an agent for magnetic and nuclear in vivo imaging. <i>Acta Biomaterialia</i> , 2018, 73, 458-469.	8.3	49
8	Anomalous doping dependence of fluctuation-induced diamagnetism in Y <sub>1-x</sub> CaxBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> superconductors. <i>Physical Review B</i> , 2002, 65, .	3.2	44
9	Superparamagnetic iron oxide nanoparticles functionalized by peptide nucleic acids. <i>RSC Advances</i> , 2017, 7, 15500-15512.	3.6	43
10	Precursor diamagnetism above the superconducting transition in La <sub>1.9</sub> Sr <sub>0.1</sub> CuO <sub>4</sub> . <i>Physical Review B</i> , 2003, 68, .	3.2	38
11	Cell Membrane-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. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900612.	7.6	36
12	Characterization of magnetic nanoparticles from <i>Magnetospirillum Gryphiswaldense</i> as potential theranostics tools. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 139-145.	0.8	34
13	Proton NMR wipeout effect due to slow fluctuations of the magnetization in single molecule magnets. <i>Physical Review B</i> , 2005, 72, .	3.2	27
14	PETER PHAN: An MRI phantom for the optimisation of radiomic studies of the female pelvis. <i>Physica Medica</i> , 2020, 71, 71-81.	0.7	27
15	Superconducting phase fluctuations in SmFeAsO <sub>0.8</sub> F <sub>0.2</sub> from diamagnetism at a low magnetic field above T <sub>c</sub> . <i>Physical Review B</i> , 2011, 84, .	3.2	24
16	Low temperature magnetic properties and spin dynamics in single crystals of Cr <sub>8</sub> Zn antiferromagnetic molecular rings. <i>Journal of Chemical Physics</i> , 2015, 143, 244321.	3.0	23
17	NMR relaxation induced by iron oxide particles: testing theoretical models. <i>Nanotechnology</i> , 2016, 27, 155706.	2.6	23
18	Tailoring the magnetic core of organic-coated iron oxides nanoparticles to influence their contrast efficiency for Magnetic Resonance Imaging. <i>Journal of Alloys and Compounds</i> , 2019, 770, 58-66.	5.5	22

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19	A multicenter study on radiomic features from T2-weighted images of a customized MR pelvic phantom setting the basis for robust radiomic models in clinics. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1713-1726.	3.0	22
20	Spin dynamics at the level crossing in the molecular antiferromagnetic ring[Cr <sub>8</sub> F <sub>8</sub> Piv <sub>16</sub> ]from proton NMR. <i>Physical Review B</i> , 2005, 72, .	3.2	20
21	Motor and higher-order functions topography of the human dentate nuclei identified with tractography and clustering methods. <i>Human Brain Mapping</i> , 2021, 42, 4348-4361.	3.6	20
22	Superconducting diamagnetic fluctuations in MgB <sub>2</sub> . <i>Physical Review B</i> , 2002, 65, .	3.2	19
23	On the magnetic anisotropy and nuclear relaxivity effects of Co and Ni doping in iron oxide nanoparticles. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	19
24	Relaxation dynamics in the frustrated Cr <sub>9</sub> ring probed by NMR. <i>Physical Review B</i> , 2016, 93, .	3.2	18
25	Superconducting diamagnetic fluctuations in Sm-based underdoped cuprates studied via SQUID magnetometry. <i>Physical Review B</i> , 2010, 81, .	3.2	18
26	Default Mode Network Structural Integrity and Cerebellar Connectivity Predict Information Processing Speed Deficit in Multiple Sclerosis. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 21.	3.7	18
27	Tuning the architectural integrity of high-performance magneto-fluorescent core-shell nanoassemblies in cancer cells. <i>Journal of Colloid and Interface Science</i> , 2016, 479, 139-149.	9.4	17
28	Inhibition of lysozyme fibrillogenesis by hydroxytyrosol and dopamine: An Atomic Force Microscopy study. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 1100-1105.	7.5	15
29	Elongated magnetic nanoparticles with high-aspect ratio: a nuclear relaxation and specific absorption rate investigation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18741-18752.	2.8	15
30	Magnetic properties and spin dynamics of Cr <sub>3</sub> complexes. <i>Physical Review B</i> , 2011, 84, .	3.2	14
31	Local spin dynamics of iron oxide magnetic nanoparticles dispersed in different solvents with variable size and shape: A <sup>1</sup> H NMR study. <i>Journal of Chemical Physics</i> , 2017, 146, 034703.	3.0	14
32	Personalized Dosimetry in Targeted Radiation Therapy: A Look to Methods, Tools and Critical Aspects. <i>Journal of Personalized Medicine</i> , 2022, 12, 205.	2.5	14
33	NMR-D study of the local spin dynamics and magnetic anisotropy in different nearly monodispersed ferrite nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 066008.	1.8	13
34	PEGylated Anionic Magnetofluorescent Nanoassemblies: Impact of Their Interface Structure on Magnetic Resonance Imaging Contrast and Cellular Uptake. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14242-14257.	8.0	13
35	<sup>1</sup> H-NMR study of the spin dynamics of fine superparamagnetic nanoparticles. <i>Physical Review B</i> , 2012, 85, .	3.2	12
36	MR imaging and targeting of human breast cancer cells with folate decorated nanoparticles. <i>RSC Advances</i> , 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. <i>European Radiology Experimental</i> , 2022, 6, 2.	3.4	12
38	Effects of extremely low-frequency magnetotherapy on proliferation of human dermal fibroblasts. <i>Electromagnetic Biology and Medicine</i> , 2016, 35, 343-352.	1.4	9
39	Optimized PAMAM coated magnetic nanoparticles for simultaneous hyperthermic treatment and contrast enhanced MRI diagnosis. <i>RSC Advances</i> , 2017, 7, 44104-44111.	3.6	9
40	Precursor diamagnetism above the superconducting transition in $\text{YNi}_2\text{B}_2$ . <i>European Physical Journal B</i> , 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. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6086-6095.	2.8	8
42	Coating Effect on the $^1\text{H}$ -NMR Relaxation Properties of Iron Oxide Magnetic Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 1660.	4.1	8
43	Breaking the ring: $^{53}\text{Cr}$ -NMR on the $\text{Cr}_8\text{Cd}$ molecular nanomagnet. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 244003.	1.8	8
44	Analysis and reduction of thermal dose errors in MRgFUS treatment. <i>Physica Medica</i> , 2014, 30, 111-116.	0.7	7
45	Superconducting Fluctuating Diamagnetism Versus Precursor Diamagnetism in Heterogeneous Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2005, 18, 763-767.	0.5	6
46	Superconducting fluctuating diamagnetism in neutron irradiated $\text{MgB}_2$ relation to precursor diamagnetism in Al-doped $\text{MgB}_2$ spin dynamics. <i>Physical Review B</i> , 2018, 97, ...	3.2	6
47	Superconducting fluctuating diamagnetism in neutron irradiated $\text{MgB}_2$ spin dynamics. <i>Physical Review B</i> , 2018, 97, ...	3.2	6
48	X-ray magnetic circular dichroism discloses surface spins correlation in maghemite hollow nanoparticles. <i>Applied Physics Letters</i> , 2018, 112, 022404.	3.3	6
49	Localized and itinerant electronic states at the insulator-metal transition in $\text{Y}_{1-x}\text{Ca}_x\text{VO}_3$ : evidence from electric transport, magnetic properties and XAS spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4691-4698.	2.8	5
50	NMR as Evaluation Strategy for Cellular Uptake of Nanoparticles. <i>Nano Letters</i> , 2014, 14, 3959-3965.	9.1	5
51	Fluctuation Effects and Anomalous Diamagnetism in YBCO124 and in Underdoped YBCO123 from Susceptibility and $^{63}\text{Cu}$ Nuclear Relaxation. <i>International Journal of Modern Physics B</i> , 1999, 13, 1123-1129.	2.0	4
52	Magnetic properties and hyperfine interactions in $\text{Cr}_8$ , $\text{Cr}_7\text{Cd}$ , and $\text{Cr}_7\text{Ni}$ molecular rings from $^{19}\text{F}$ -NMR. <i>Journal of Chemical Physics</i> , 2014, 140, 144306.	3.0	4
53	Comparison of spin dynamics and magnetic properties in antiferromagnetic closed and open molecular Cr-based rings. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 506001.	1.8	4
54	High temperature spin dynamics in linear magnetic chains, molecular rings, and segments by nuclear magnetic resonance. <i>Journal of Applied Physics</i> , 2015, 117, 17B308.	2.5	4

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55	Low-temperature anomalies in muon spin relaxation of solid and hollow $^{57}\text{Fe}_2\text{O}_3$ nanoparticles: A pathway to detect unusual local spin dynamics. <i>Physical Review B</i> , 2020, 102, .	3.2	4
56	Longitudinal and transverse NMR relaxivities of Ln(III)-DOTA complexes: A comprehensive investigation. <i>Journal of Chemical Physics</i> , 2021, 155, 214201.	3.0	4
57	Proton NMR and susceptibility measurements on the magnetic core of ferritin. <i>Applied Magnetic Resonance</i> , 2000, 19, 557-562.	1.2	3
58	On the low-energy excitations in superconducting $\text{YNi}_2\text{B}_2\text{C}$ from $^{61}\text{Ni}$ NMR relaxation around the critical field. <i>Physical Review B</i> , 2005, 71, .	3.2	3
59	Low temperature spin dynamics in $\text{Cr}_7\text{Ni-Cu-Cr}_7\text{Ni}$ coupled molecular rings. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	2
60	A method for T1 and T2 relaxation times validation and harmonization as a support to MRI mapping. <i>Journal of Magnetic Resonance</i> , 2022, 334, 107110.	2.1	2
61	Discrimination of Tumor Texture Based on MRI Radiomic Features: Is There a Volume Threshold? A Phantom Study. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5465.	2.5	2
62	ANOMALOUS DOPING DEPENDENCE OF THE FLUCTUATION-INDUCED DIAMAGNETISM IN SUPERCONDUCTORS OF YBCO FAMILY. <i>International Journal of Modern Physics B</i> , 2003, 17, 785-790.	2.0	1