

# Esteban Anoardo

## List of Publications by Year in descending order

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38  
papers

1,137  
citations

759233

12  
h-index

377865

34  
g-index

40  
all docs

40  
docs citations

40  
times ranked

820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Field-cycling NMR relaxometry. Progress in Nuclear Magnetic Resonance Spectroscopy, 2004, 44, 257-320.	7.5	594
2	Fast-field-cycling NMR: Applications and instrumentation. Applied Magnetic Resonance, 2001, 20, 365-404.	1.2	186
3	<sup>14</sup> N Nuclear Quadrupole Dips in the Proton Spin-Lattice Relaxation Dispersion in the Smectic-CPhase of HpAB. Physical Review Letters, 1996, 76, 3983-3986.	7.8	37
4	Proton spin-lattice relaxation in a liquid crystal-Aerosil complex above the bulk isotropization temperature. Chemical Physics, 2004, 297, 99-110.	1.9	32
5	Enhancement of order fluctuations in a nematic liquid crystal by sonication. Chemical Physics Letters, 2002, 361, 237-244.	2.6	24
6	Ultrasound-order director fluctuations interaction in nematic liquid crystals: A nuclear magnetic resonance relaxometry study. Journal of Chemical Physics, 2003, 118, 9037-9043.	3.0	24
7	Temperature and Size-Dependence of Membrane Molecular Dynamics in Unilamellar Vesicles by Fast Field-Cycling NMR Relaxometry. Journal of Physical Chemistry B, 2011, 115, 3444-3451.	2.6	24
8	NMR relaxometry analysis of lubricant oils degradation. Journal Physics D: Applied Physics, 2005, 38, 3746-3750.	2.8	22
9	Magnetic field compensation for field-cycling NMR Relaxometry in the ULF band. Applied Magnetic Resonance, 2003, 24, 85-96.	1.2	20
10	Low-Frequency Molecular Dynamics Studied by Spin-Lock Field Cycling Imaging. Journal of Magnetic Resonance, 2000, 142, 372-378.	2.1	17
11	Spin-lattice dispersion in nematic and smectic- <i>A</i> mesophases in the presence of ultrasonic waves: A theoretical approach. Physical Review E, 2003, 68, 021703.	2.1	15
12	Air core notch-coil magnet with variable geometry for fast-field-cycling NMR. Journal of Magnetic Resonance, 2015, 259, 216-224.	2.1	13
13	Interpretation of Molecular Dynamics on Different Time Scales in Unilamellar Vesicles Using Field-Cycling NMR Relaxometry. Journal of Physical Chemistry B, 2009, 113, 15532-15540.	2.6	12
14	Apparent low-field spin-lattice dispersion in the smectic- <i>A</i> mesophase of thermotropic cyanobiphenyls. Physical Review E, 2003, 68, 022701.	2.1	11
15	Automatic Shielding-Shimming Magnetic Field Compensator for Excluded Volume Applications. IEEE Transactions on Control Systems Technology, 2010, 18, 976-983.	5.2	10
16	The Effect of Cholesterol on Membrane Dynamics on Different Timescales in Lipid Bilayers from Fast Field-Cycling NMR Relaxometry Studies of Unilamellar Vesicles. ChemPhysChem, 2014, 15, 425-435.	2.1	10
17	Rouse dynamics in PEO-PPO-PEO block-copolymers in aqueous solution as observed through fast field-cycling NMR relaxometry. Polymer, 2018, 150, 244-253.	3.8	9
18	Dynamical regimes of lipids in additivated liposomes with enhanced elasticity: A field-cycling NMR relaxometry approach. Biophysical Chemistry, 2017, 228, 38-46.	2.8	8

#	ARTICLE	IF	CITATIONS
19	A fast field-cycling MRI relaxometer for physical contrasts design and pre-clinical studies in small animals. <i>Journal of Magnetic Resonance</i> , 2020, 311, 106682.	2.1	7
20	Use of <sup>1</sup> H-NMR spectroscopy, diffusometry and relaxometry for the characterization of thermally-induced degradation of motor oils. <i>Tribology International</i> , 2021, 153, 106620.	5.9	7
21	Monitoring lubricant oil degradation using field-cycling NMR relaxometry. <i>Molecular Physics</i> , 2019, 117, 983-989.	1.7	6
22	Proton field-cycling nuclear magnetic resonance relaxometry in the smectic A mesophase of thermotropic cyanobiphenyls: Effects of sonication. <i>Journal of Chemical Physics</i> , 2004, 121, 554.	3.0	5
23	Fixed lock-time relaxation dispersion in the rotating frame. <i>Journal of Magnetic Resonance</i> , 2006, 181, 262-270.	2.1	5
24	New Magnet Design for Fast-Field-Cycling Nuclear Magnetic Resonance. <i>IEEE Latin America Transactions</i> , 2013, 11, 251-256.	1.6	5
25	Measurement of the bending elastic modulus in unilamellar vesicles membranes by fast field cycling NMR relaxometry. <i>Chemistry and Physics of Lipids</i> , 2016, 201, 21-27.	3.2	5
26	Longitudinal gradient coils with enhanced radial uniformity in restricted diameter: Single-current and multiple-current approaches. <i>Journal of Magnetic Resonance</i> , 2017, 276, 69-77.	2.1	5
27	Comparative study of helical-cut notchâ€œcoil magnets for fast-field-cycling nuclear magnetic resonance. <i>Canadian Journal of Physics</i> , 2014, 92, 1430-1440.	1.1	4
28	NMR-SSC Magnetic Field Profiler Applied to Magnetic Field Shimming. <i>IEEE Latin America Transactions</i> , 2013, 11, 257-262.	1.6	3
29	Longitudinal gradient-coil with improved uniformity within the volume of interest. , 2014, , .		3
30	Fast iron oxide-induced low-field magnetic resonance imaging. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 025003.	2.8	3
31	Dual k-space and image-space post-processing for field-cycling MRI under low magnetic field stability and homogeneity conditions. <i>Magnetic Resonance Imaging</i> , 2022, 87, 157-168.	1.8	3
32	Field-cycling NMR detection of magnetoacoustically manipulated nematic ordered states: Memory effects. <i>Chemical Physics Letters</i> , 2007, 440, 352-356.	2.6	2
33	On the acousticâ€œdirector interaction in the smectic A phase. <i>Chemical Physics Letters</i> , 2007, 450, 170-174.	2.6	2
34	Application of field-cycling NMR relaxometry to the study of ultrasound-induced effects in the molecular dynamics and order of mesomorphic materials. <i>Comptes Rendus Physique</i> , 2010, 11, 160-171.	0.9	1
35	Using Proton Nuclear Magnetic Resonance (NMR) as a calibrating reference for magnetic field measurement instruments: Sensitive volume and magnetic field homogeneity. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 151, 107228.	5.0	1
36	NMR relaxometry analysis of molecular degradation in internal combustion engine lubricants. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 447-453.	1.9	1

#	ARTICLE	IF	CITATIONS
37	Proton Double Irradiation Field-Cycling Nuclear Magnetic Resonance Imaging: Testing New Concepts and Calibration Methods. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	1
38	Molecular order sensitive MRI. , 2014, , .		0