Ioan Ardelean

List of Publications by Year
in descending order

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67	935	471509 17	526287 27
papers	citations	h-index	g-index

69	69	69	544
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	NMR relaxation of molecules confined inside the cement paste pores under partially saturated conditions. Cement and Concrete Research, 2016, 89, 56-62.	11.0	75
2	Principles and Unconventional Aspects of NMR Diffusometry. Annual Reports on NMR Spectroscopy, 2003, , 43-115.	1.5	52
3	The Effects of Different Superplasticizers and Water-to-Cement Ratios on the Hydration of Gray Cement Using T2-NMR. Applied Magnetic Resonance, 2013, 44, 1223-1234.	1.2	43
4	Molecular exchange dynamics in partially filled microscale and nanoscale pores of silica glasses studied by field-cycling nuclear magnetic resonance relaxometry. Journal of Chemical Physics, 2004, 121, 10648-10656.	3.0	42
5	Attenuation of homo- and heteronuclear multiple spin echoes by diffusion. Journal of Chemical Physics, 2001, 114, 8520-8529.	3.0	41
6	Diffusion measurements with the pulsed gradient nonlinear spin echo method. Journal of Chemical Physics, 2000, 112, 5275-5280.	3.0	38
7	Nuclear magnetic resonance study of the vapor phase contribution to diffusion in nanoporous glasses partially filled with water and cyclohexane. Journal of Chemical Physics, 2003, 119, 10358-10362.	3.0	33
8	Revealing the Influence of Microparticles on Geopolymersâ€™ Synthesis and Porosity. Materials, 2020, 13, 3211.	2.9	32
9	Intermolecular multiple-quantum coherence transfer echoes and multiple echoes in nuclear magnetic resonance. Journal of Chemical Physics, 1999, 110, 3708-3713.	3.0	31
10	Multiple Nonlinear Stimulated Echoes. Journal of Magnetic Resonance, 1997, 127, 217-224.	2.1	30
11	Saturationâ€dependent nuclear magnetic resonance relaxation of fluids confined inside porous media with micrometerâ€sized pores. Magnetic Resonance in Chemistry, 2011, 49, 314-319.	1.9	29
12	Monitoring the size evolution of capillary pores in cement paste during the early hydration via diffusion in internal gradients. Cement and Concrete Research, 2015, 77, 76-81.	11.0	26
13	Frequencyâ€dependent NMR relaxation of liquids confined inside porous media containing an increased amount of magnetic impurities. Magnetic Resonance in Chemistry, 2013, 51, 123-128.	1.9	25
14	The Nutation Spin Echo and Its Use for Localized NMR. Journal of Magnetic Resonance, 2000, 146, 43-48.	2.1	21
15	Diffusion Measurements with the Aid of Nutation Spin Echoes Appearing after Two Inhomogeneous Radiofrequency Pulses in Inhomogeneous Magnetic Fields. Journal of Magnetic Resonance, 2001, 148, 363-366.	2.1	21
16	Diffusion Measurements Using the Nonlinear Stimulated Echo. Journal of Magnetic Resonance, 2000, 143, 101-105.	2.1	19
17	Probing four orders of magnitude of the diffusion time in porous silica glass with unconventional NMR techniques. Journal of Magnetic Resonance, 2006, 182, 215-220.	2.1	19
18	The Effect of Curing Temperature on Early Hydration of Gray Cement Via Fast Field Cycling-NMR Relaxometry. Applied Magnetic Resonance, 2014, 45, 1299-1309.	1.2	19

#	Article	IF	Citations
19	Demagnetizing field effects on the Hahn echo. Chemical Physics Letters, 2000, 320, 81-86.	2.6	16
20	Two-Pulse Nutation Echoes Generated by Gradients of the Radiofrequency Amplitude and of the Main Magnetic Field. Journal of Magnetic Resonance, 2000, 144, 45-52.	2.1	15
21	Nuclear magnetic resonance study of the vapor contribution to diffusion in silica glasses with micrometer pores partially filled with liquid cyclohexane or water. Journal of Chemical Physics, 2004, 120, 9809-9816.	3.0	15
22	NMR study of the vapor phase contribution to diffusion in partially filled silica glasses with nanometer and micrometer pores. Magnetic Resonance Imaging, 2005, 23, 285-289.	1.8	14
23	Freezeâ€“Thaw Effect on Road Concrete Containing Blast Furnace Slag: NMR Relaxometry Investigations. Materials, 2021, 14, 3288.	2.9	14
24	Probing into the mesoporous structure of carbon xerogels via the low-field NMR relaxometry of water and cyclohexane molecules. Microporous and Mesoporous Materials, 2017, 251, 19-25.	4.4	13
25	Microporosity Quantification via NMR Relaxometry. Journal of Physical Chemistry C, 2019, 123, 30486-30491.	3.1	12
26	Monitoring the Air Influence on Cementâ€“Lime Mortar Hydration Using Low-Field Nuclear Magnetic Resonance Relaxometry. Applied Magnetic Resonance, 2012, 43, 443-450.	1.2	11
27	Imbibition and dewetting of silica colloidal crystals: An NMR relaxometry study. Journal of Colloid and Interface Science, 2020, 561, 741-748.	9.4	11
28	Evolution of the microstructure and the drug release upon annealing the drug loaded lipid-surfactant microspheres. European Journal of Pharmaceutical Sciences, 2020, 147, 105278.	4.0	11
29	Multiple spin echo generation by gradients of the radio frequency amplitude: Two-dimensional nutation spectroscopy and multiple rotary echoes. Journal of Chemical Physics, 1999, 111, 6501-6509.	3.0	10
30	NMR acceleration mapping in percolation model objects. Journal of Magnetic Resonance, 2004, 168, 175-185.	2.1	10
31	Usage of internal magnetic fields to study the early hydration process of cement paste by MGSE method. Journal of Magnetic Resonance, 2016, 272, 100-107.	2.1	10
32	Monitoring the Influence of Aminosilane on Cement Hydration Via Low-field NMR Relaxometry. Applied Magnetic Resonance, 2016, 47, 191-199.	1.2	10
33	Preparation and NMR Characterization of Polyethyl-2-cyanoacrylate Nanocapsules. Applied Magnetic Resonance, 2008, 34, 111-119.	1.2	9
34	The Nonlinear Stimulated Echo in the Presence of Inequivalent Spins. Journal of Magnetic Resonance, 1998, 132, 138-143.	2.1	8
35	Probing the Pore Size of Porous Ceramics with Controlled Amount of Magnetic Impurities via Diffusion Effects on the CPMG Technique. Applied Magnetic Resonance, 2013, 44, 837-848.	1.2	8
36	Response to â€œComment on â€˜Diffusion measurements with the pulsed gradient nonlinear spin echo methodâ€™â€Šâ€•[J. Chem. Phys. 116, 1204 (2002)]. Journal of Chemical Physics, 2002, 116, 1206-1206.	3.0	7

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37	The Size Distribution of Core Shell Polymeric Capsules as Revealed by Low-Field NMR Diffusometry. Applied Magnetic Resonance, 2011, 40, 205-211.	1.2	7
38	The Effect of an Accelerator on Cement Paste Capillary Pores: NMR Relaxometry Investigations. Molecules, 2021, 26, 5328.	3.8	7
39	The Diversity of B0 and B1 Gradient NMR Diffusometry Techniques. Israel Journal of Chemistry, 2010, 43, 9-24.	2.3	6
40	Monitoring the ettringite formation in cement paste using low field T2-NMR. , 2013, , .		6
41	The Effect of Silica Fume and Organosilane Addition on the Porosity of Cement Paste. Molecules, 2020, 25, 1762.	3.8	6
42	Interplay of Aging and Lot-to-Lot Variability on the Physical and Chemical Properties of Excipients: A Case Study of Mono- and Diglycerides. Molecular Pharmaceutics, 2021, 18, 862-877.	4.6	6
43	The heterogeneous distribution of the liquid phase in partially filled porous glasses and its effect on self-diffusion. Magnetic Resonance Imaging, 2007, 25, 453-456.	1.8	5
44	The Influence of the Magnetic Impurity Content on the Pore Size Distribution Determination via the DDIF Technique. Applied Magnetic Resonance, 2013, 44, 365-373.	1.2	5
45	The effect of diffusion in internal gradients on nuclear magnetic resonance transverse relaxation measurements. AIP Conference Proceedings, 2013, , .	0.4	5
46	Revealing the influence of water-cement ratio on the pore size distribution in hydrated cement paste by using cyclohexane. AIP Conference Proceedings, 2017, , .	0.4	5
47	Surface influence on the rotational and translational dynamics of molecules confined inside a mesoporous carbon xerogel. Magnetic Resonance in Chemistry, 2019, 57, 829-835.	1.9	5
48	Use of Magic Sandwich Echo and Fast Field Cycling NMR Relaxometry on Honey Adulteration with Corn Syrup. Journal of the Science of Food and Agriculture, 2021, , .	3.5	5
49	The influence of J-coupling on heteronuclear nonlinear (or multiple) spin echoes. Chemical Physics Letters, 2001, 347, 157-162.	2.6	4
50	Low-Field Nuclear Magnetic Resonance Relaxometry as a Tool in Monitoring the Aging of Coating Solutions (Case Study: Barium Propionate Precursor Coating Solution). Applied Magnetic Resonance, 2010, 39, 365-372.	1.2	4
51	NMR T₁â€“T₂ correlation analysis of molecular absorption inside a hardened cement paste containing silanised silica fume. Molecular Physics, 2019, 117, 1000-1005.	1.7	4
52	Characterization of the Influence of an Accelerator upon the Porosity and Strength of Cement Paste by Nuclear Magnetic Resonance (NMR) Relaxometry. Analytical Letters, 2023, 56, 303-311.	1.8	4
53	Grating spin echoes. Applied Magnetic Resonance, 2004, 26, 307-315.	1.2	3
54	Time-Dependent Molecular Diffusion in Partially Filled Porous Glasses with Heterogeneous Structure. Applied Magnetic Resonance, 2008, 34, 85-99.	1.2	3

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55	NMR relaxation dispersion of Miglyol molecules confined inside polymeric microâ€capsules. Magnetic Resonance in Chemistry, 2011, 49, 730-733.	1.9	3
56	The influence of silanized nano-SiO2 on the hydration of cement paste: NMR investigations. AIP Conference Proceedings, 2015, , .	0.4	3
57	The effect of silica nanoparticles on the pore structure of hydrating cement paste: a spatially resolved low-field NMR study. Molecular Physics, 2019, 117, 1006-1014.	1.7	3
58	Characterization of the Nuclear Magnetic Resonance Relaxivity of Gadolinium Functionalized Magnetic Nanoparticles. Analytical Letters, 2021, 54, 124-139.	1.8	3
59	Spatial Localized Double-Quantum NMR Heteronuclear Coherence Transfer in Solids by Indirect Detection. Acta Physica Polonica A, 1996, 89, 699-714.	0.5	3
60	Nuclear magnetic resonance studies of liquids morphology inside partially saturated porous media. Journal of Physics: Conference Series, 2009, 182, 012012.	0.4	2
61	Magnetotactic bacteria and biogenic magnetite nanocrystals as potential contrast agents in magnetic resonance imaging. , 2018, , .		2
62	Molecular self-diffusion in internal magnetic fields of porous medium investigated by NMR MGSE method. Journal of Magnetic Resonance, 2021, 328, 106981.	2.1	2
63	The effect of silica fume on early hydration of white Portland cement via fast field cycling-NMR relaxometry. AIP Conference Proceedings, 2017, , .	0.4	1
64	Probing the connectivity and wettability of carbon aerogels and xerogels via low-field NMR. AIP Conference Proceedings, 2017, , .	0.4	1
65	The Diversity of B0 and B1 Gradient NMR Diffusometry Techniques. ChemInform, 2004, 35, no.	0.0	0
66	Time-Dependent Diffusion Studies on Miglyol Molecules Confined in Permeable Polymeric Capsules. Applied Magnetic Resonance, 2008, 34, 63-69.	1.2	0
67	Determination of residual monomers resulting from the chemical polymerization process of dental materials. , 2013, , .		0