

Corinne Rondeau-Mouro

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65

papers

1,655

citations

22

h-index

39

g-index

68

ext. papers

1,903

ext. citations

5.6

avg, IF

4.57

L-index

#	Paper	IF	Citations
65	Determination of the lipid content of organic waste using time-domain nuclear magnetic resonance. <i>Waste Management</i> , 2021 , 138, 41-48	8.6	0
64	Gas cell opening in bread dough during baking. <i>Trends in Food Science and Technology</i> , 2021 , 109, 482-498	8.3	4
63	Datasets of seed mucilage traits for Arabidopsis thaliana natural accessions with atypical outer mucilage. <i>Scientific Data</i> , 2021 , 8, 79	8.2	2
62	Low field, time domain NMR in the agriculture and agrifood sectors: An overview of applications in plants, foods and biofuels. <i>Journal of Magnetic Resonance</i> , 2021 , 323, 106899	3	12
61	Untargeted analysis of TD-NMR signals using a multivariate curve resolution approach: Application to the water-imbibition kinetics of Arabidopsis seeds. <i>Talanta</i> , 2021 , 233, 122525	6.2	1
60	TD-NMR studies of starches from different botanical origins: Hydrothermal and storage effects. <i>Food Chemistry</i> , 2020 , 308, 125675	8.5	7
59	Using T as a direct detection dimension in two-dimensional time-domain NMR experiments using CWFPP regime. <i>Journal of Magnetic Resonance</i> , 2020 , 311, 106666	3	6
58	Multiblock Analysis Applied to TD-NMR of Butters and Related Products. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5317	2.6	1
57	Sequence for simultaneous measurement of long-limit diffusion and longitudinal relaxation in unilateral NMR. <i>Journal of Magnetic Resonance</i> , 2019 , 309, 106619	3	2
56	Enhancing signal-to-noise ratio and resolution in low-field NMR relaxation measurements using post-acquisition digital filters. <i>Magnetic Resonance in Chemistry</i> , 2019 , 57, 616-625	2.1	10
55	Characterization of gluten-free bread crumb baked at atmospheric and reduced pressures using TD-NMR. <i>Magnetic Resonance in Chemistry</i> , 2019 , 57, 649-660	2.1	5
54	Dispersed phase volume fraction, weak acids and Tween 80 in a model emulsion: Effect on the germination and growth of Bacillus weihenstephanensis KBAB4 spores. <i>Food Research International</i> , 2018 , 109, 288-297	7	2
53	In-Situ Quantitative and Multiscale Structural Study of Starch-Based Biomaterials Immersed in Water. <i>Biomacromolecules</i> , 2018 , 19, 838-848	6.9	7
52	EMIP: Customized virtual phantom for quantitative magnetic resonance micro-imaging at high magnetic field. <i>Journal of Magnetic Resonance</i> , 2017 , 275, 73-79	3	1
51	Hydrothermal Changes of Starch Monitored by Combined NMR and DSC Methods. <i>Food and Bioprocess Technology</i> , 2017 , 10, 445-461	5.1	16
50	Multi-scale NMR and MRI approaches to characterize starchy products. <i>Food Chemistry</i> , 2017 , 236, 2-14	8.5	22
49	Hydrothermal changes in wheat starch monitored by two-dimensional NMR. <i>Food Chemistry</i> , 2017 , 214, 412-422	8.5	22

48	2D TD-NMR Analysis of Complex Food Products 2017 , 1-20		2
47	Two dimensional IR-FID-CPMG acquisition and adaptation of a maximum entropy reconstruction. <i>Journal of Magnetic Resonance</i> , 2016 , 265, 16-24	3	21
46	Overall and Local Bread Expansion, Mechanical Properties, and Molecular Structure During Bread Baking: Effect of Emulsifying Starches. <i>Food and Bioprocess Technology</i> , 2016 , 9, 1287-1305	5.1	17
45	Multiscale characterization of arabinoxylan and D-glucan composite films. <i>Carbohydrate Polymers</i> , 2015 , 122, 248-54	10.3	10
44	Temperature-Associated Proton Dynamics in Wheat Starch-Based Model Systems and Wheat Flour Dough Evaluated by NMR. <i>Food and Bioprocess Technology</i> , 2015 , 8, 777-790	5.1	41
43	Characterization of solid content and distinction between type A and B crystals of TBAB hydrates by Time Domain NMR. <i>Chemical Engineering Science</i> , 2015 , 138, 544-551	4.4	9
42	Translational and rotational diffusion of flexible PEG and rigid dendrimer probes in sodium caseinate dispersions and acid gels. <i>Biopolymers</i> , 2014 , 101, 959-65	2.2	10
41	Local evolution of seed flotation in Arabidopsis. <i>PLoS Genetics</i> , 2014 , 10, e1004221	6	30
40	Solid-State 31P NMR, a Relevant Method to Evaluate the Distribution of Phosphates in Semi-hard Cheeses. <i>Food Analytical Methods</i> , 2013 , 6, 1544-1550	3.4	4
39	PFG-NMR self-diffusion in casein dispersions: Effects of probe size and protein aggregate size. <i>Food Hydrocolloids</i> , 2013 , 31, 248-255	10.6	17
38	Hydration and mechanical properties of arabinoxylans and D-glucans films. <i>Carbohydrate Polymers</i> , 2013 , 96, 31-8	10.3	27
37	Formation and stability of amylose ligand complexes formed by high pressure treatment. <i>Innovative Food Science and Emerging Technologies</i> , 2013 , 18, 1-6	6.8	29
36	Probe mobility in native phosphocaseinate suspensions and in a concentrated rennet gel: effects of probe flexibility and size. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 5870-9	5.7	16
35	Studies of polyphosphate composition and their interaction with dairy matrices by ion chromatography and 31P NMR spectroscopy. <i>International Dairy Journal</i> , 2013 , 28, 102-108	3.5	12
34	Coupling lipophilization and amylose complexation to encapsulate chlorogenic acid. <i>Carbohydrate Polymers</i> , 2012 , 90, 152-8	10.3	31
33	Functionalization of chitosan by laccase-catalyzed oxidation of ferulic acid and ethyl ferulate under heterogeneous reaction conditions. <i>Carbohydrate Polymers</i> , 2012 , 87, 537-544	10.3	98
32	Chemometric analyses of the 1H-13C cross-polarization build-up of celluloses NMR spectra: A novel approach for characterizing the cellulose crystallites. <i>Carbohydrate Polymers</i> , 2011 , 84, 539-549	10.3	11
31	Water mobility within arabinoxylan and D-glucan films studied by NMR and dynamic vapour sorption. <i>Journal of the Science of Food and Agriculture</i> , 2011 , 91, 2601-5	4.3	12

30	Structure and organization within films of arabinoxylans extracted from wheat flour as revealed by various NMR spectroscopic methods. <i>Magnetic Resonance in Chemistry</i> , 2011 , 49 Suppl 1, S85-92	2.1	6
29	Films of arabinoxylans and β -glucans extracted from cereal grains: Molecular motions by TD-NMR. <i>Carbohydrate Polymers</i> , 2011 , 86, 812-822	10.3	13
28	Distribution and mobility of phosphates and sodium ions in cheese by solid-state ^{31}P and double-quantum filtered ^{23}Na NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2010 , 48, 297-303	2.1	15
27	Structure and interactions of ulvan in the cell wall of the marine green algae <i>Ulva rotundata</i> (Ulvales, Chlorophyceae). <i>Carbohydrate Polymers</i> , 2009 , 77, 206-216	10.3	91
26	Effects of Crystal Growth and Polymorphism of Triacylglycerols on NMR Relaxation Parameters. 1. Evidence of a Relationship between Crystal Size and Spin Lattice Relaxation Time. <i>Crystal Growth and Design</i> , 2009 , 9, 4273-4280	3.5	16
25	Assessment of cell wall porosity in <i>Arabidopsis thaliana</i> by NMR spectroscopy. <i>International Journal of Biological Macromolecules</i> , 2008 , 42, 83-92	7.9	64
24	Caractérisation par RMN des biopolymères d'origine végétale, de la molécule à l'organisation supramoléculaire. <i>Comptes Rendus Chimie</i> , 2008 , 11, 370-379	2.7	4
23	Study of triacylglycerol polymorphs by nuclear magnetic resonance: effects of temperature and chain length on relaxation parameters. <i>Magnetic Resonance in Chemistry</i> , 2008 , 46, 550-7	2.1	20
22	Firming of fruit tissues by vacuum-infusion of pectin methylesterase: Visualisation of enzyme action. <i>Food Chemistry</i> , 2008 , 109, 368-78	8.5	43
21	Studies of xylan interactions and cross-linking to synthetic lignins formed by bulk and end-wise polymerization: a model study of lignin carbohydrate complex formation. <i>Planta</i> , 2007 , 226, 267-81	4.7	50
20	Binding of the dystrophin second repeat to membrane di-oleyl phospholipids is dependent upon lipid packing. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 648-54	3.8	10
19	A metabolic flux analysis to study the role of sucrose synthase in the regulation of the carbon partitioning in central metabolism in maize root tips. <i>Metabolic Engineering</i> , 2007 , 9, 419-32	9.7	50
18	Two-Phase Hygrothermal Diffusion in an Epoxy Adhesive. <i>Defect and Diffusion Forum</i> , 2006 , 258-260, 453-460	0.7	
17	Specific adduction of plant lipid transfer protein by an allene oxide generated by 9-lipoxygenase and allene oxide synthase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 38981-8	5.4	37
16	High-resolution solid-state NMR of B-type amylose. <i>Biomacromolecules</i> , 2006 , 7, 2455-60	6.9	11
15	Alkaline extractability of pectic arabinan and galactan and their mobility in sugar beet and potato cell walls. <i>Carbohydrate Polymers</i> , 2006 , 65, 510-520	10.3	62
14	Structural investigation of amylose complexes with small ligands: helical conformation, crystalline structure and thermostability. <i>International Journal of Biological Macromolecules</i> , 2005 , 35, 1-7	7.9	130
13	Model systems for the understanding of lignified plant cell wall formation. <i>Plant Biosystems</i> , 2005 , 139, 93-97	1.6	8

12	Free/bound water absorption in an epoxy adhesive. <i>Polymer</i> , 2005 , 46, 10733-10740	3.9	209
11	NMR investigations of the 4-ethyl guaiacol self-diffusion in iota (κ)-carrageenan gels. <i>Carbohydrate Polymers</i> , 2004 , 57, 459-468	10.3	22
10	Structural investigation of amylose complexes with small ligands: inter- or intra-helical associations?. <i>International Journal of Biological Macromolecules</i> , 2004 , 34, 309-15	7.9	50
9	Interaction of dystrophin rod domain with membrane phospholipids. Evidence of a close proximity between tryptophan residues and lipids. <i>Journal of Biological Chemistry</i> , 2003 , 278, 5993-6001	5.4	33
8	Solid-state ^{13}C NMR spectroscopy studies of xylans in the cell wall of <i>Palmaria palmata</i> (L. Kuntze, Rhodophyta). <i>Carbohydrate Research</i> , 2003 , 338, 1559-69	2.9	50
7	Structural features and potential texturising properties of lemon and maize cellulose microfibrils. <i>Carbohydrate Polymers</i> , 2003 , 53, 241-252	10.3	72
6	Application of CP-MAS and liquid-like solid-state NMR experiments for the study of the ripening-associated cell wall changes in tomato. <i>International Journal of Biological Macromolecules</i> , 2003 , 31, 235-44	7.9	20
5	HR-DOSY experiments with radiofrequency field gradients (RFG) and their processing according to the HD method. <i>Magnetic Resonance in Chemistry</i> , 2002 , 40, S133-S138	2.1	2
4	Assignment of heme methyl ^1H -NMR resonances of high-spin and low-spin ferric complexes of cytochrome p450cam using one-dimensional and two-dimensional paramagnetic signals enhancement (PASE) magnetization transfer experiments. <i>FEBS Journal</i> , 2000 , 267, 216-21		9
3	Proton nuclear magnetic resonance study of the binary complex of cytochrome P450cam and putidaredoxin: interaction and electron transfer rate analysis. <i>FEBS Letters</i> , 1999 , 455, 302-6	3.8	19
2	PASE (PARAMagnetic signals enhancement): a new method for NMR study of paramagnetic proteins. <i>Journal of Magnetic Resonance</i> , 1998 , 134, 154-7	3	13
1	^1H -NMR study of diamagnetic cytochrome P450cam: assignment of heme resonances and substrate dependence of one cysteinate beta proton. <i>FEBS Letters</i> , 1997 , 414, 203-8	3.8	8