

# Guilhem Pages

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Characterization of the Sodium Binding State in Several Food Products by $^{23}\text{Na}$ NMR Spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2022, , .	1.1	3
2	Quantitative sodium magnetic resonance imaging in food: Addressing sensitivity issues using single quantum chemical shift imaging at high field. <i>Magnetic Resonance in Chemistry</i> , 2022, 60, 628-636.	1.1	0
3	MRSI vs CEST MRI to understand tomato metabolism in ripening fruit: is there a better contrast?. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1251-1257.	1.9	3
4	Effects of Long-Term Endogenous Corticosteroid Exposure on Brain Volume and Glial Cells in the AdKO Mouse. <i>Frontiers in Neuroscience</i> , 2021, 15, 604103.	1.4	24
5	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.	1.2	24
6	Simultaneous proteoglycans and hypoxia mapping of chondrosarcoma environment by frequency selective CEST MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1008-1018.	1.9	1
7	Circadian Variation of Root Water Status in Three Herbaceous Species Assessed by Portable NMR. <i>Plants</i> , 2021, 10, 782.	1.6	3
8	Spurious phase correction in rapid metabolic imaging. <i>Journal of Magnetic Resonance</i> , 2021, 332, 107065.	1.2	0
9	Parsimonious discretization for characterizing multi-exponential decay in magnetic resonance. <i>NMR in Biomedicine</i> , 2020, 33, e4366.	1.6	5
10	Antioxidant and Cardioprotective Effects of EPA on Early Low-Severity Sepsis through UCP3 and SIRT3 Upholding of the Mitochondrial Redox Potential. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-21.	1.9	20
11	Uncertainties of calculated Cram�r lower bounds: implications for quantitative MRS. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 759-764.	1.9	2
12	Glyoxalase activity in human erythrocytes and mouse lymphoma, liver and brain probed with hyperpolarized $^{13}\text{C}$ -methylglyoxal. <i>Communications Biology</i> , 2018, 1, 232.	2.0	8
13	The impact of processing and aging on the oxidative potential, molecular structure and dissolution of gelatin. <i>Food Hydrocolloids</i> , 2017, 66, 246-258.	5.6	6
14	mGlu5 receptor antagonist blocks bromocriptine-induced conditioned place preference in bilateral mesolimbic-lesioned rat. <i>Behavioural Brain Research</i> , 2017, 317, 301-310.	1.2	2
15	Pulsed Field Gradient NMR with Sigmoid Shape Gradient Sampling To Produce More Detailed Diffusion Ordered Spectroscopy Maps of Real Complex Mixtures: Examples with Medicine Analysis. <i>Analytical Chemistry</i> , 2016, 88, 3304-3309.	3.2	14
16	$\langle i \rangle \text{FmR} \langle \pm \rangle \langle /i \rangle$ analysis: Rapid and direct estimation of relaxation and kinetic parameters from dynamic nuclear polarization time courses. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2075-2080.	1.9	6
17	Hyperpolarized [ $^{13}\text{C}$ ]pyruvate in lysed human erythrocytes: effects of co-substrate supply on reaction time courses. <i>NMR in Biomedicine</i> , 2014, 27, 1203-1210.	1.6	10
18	Structure and antimicrobial activity of platypus $\alpha$ -intermediate $\beta$ defensin-like peptide. <i>FEBS Letters</i> , 2014, 588, 1821-1826.	1.3	3

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19	Evaluation of a Benchtop Cryogen-Free Low-Field $^1\text{H}$ NMR Spectrometer for the Analysis of Sexual Enhancement and Weight Loss Dietary Supplements Adulterated with Pharmaceutical Substances. <i>Analytical Chemistry</i> , 2014, 86, 11897-11904.	3.2	45
20	Long-lived spin state of a tripeptide in stretched hydrogel. <i>Journal of Biomolecular NMR</i> , 2014, 59, 31-41.	1.6	5
21	Dependence of residual dipolar couplings on foot angle in $^1\text{H}$ MR spectra from skeletal muscle. <i>Magnetic Resonance Imaging</i> , 2014, 32, 379-384.	1.0	7
22	NMR q-space analysis of canonical shapes of human erythrocytes: stomatocytes, discocytes, spherocytes and echinocytes. <i>European Biophysics Journal</i> , 2013, 42, 3-16.	1.2	6
23	Transmembrane Exchange of Hyperpolarized $^{13}\text{C}$ -Urea in Human Erythrocytes: Subminute Timescale Kinetic Analysis. <i>Biophysical Journal</i> , 2013, 105, 1956-1966.	0.2	24
24	Suppressing magnetization exchange effects in stimulated-echo diffusion experiments. <i>Journal of Magnetic Resonance</i> , 2013, 234, 35-43.	1.2	10
25	Chiral compartmentation <sup>TM</sup> in metabolism: Enzyme stereospecificity yielding evolutionary options. <i>FEBS Letters</i> , 2013, 587, 2790-2797.	1.3	10
26	Insights into hERG K <sup>+</sup> channel structure and function from NMR studies. <i>European Biophysics Journal</i> , 2013, 42, 71-79.	1.2	10
27	Imaging Brain Deoxyglucose Uptake and Metabolism by Glucocest MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1270-1278.	2.4	150
28	Mathematical Modeling and Data Analysis of Nmr Experiments Using Hyperpolarized $^{13}\text{C}$ Metabolites. <i>Magnetic Resonance Insights</i> , 2013, 6, MRI.S11084.	2.5	16
29	Polymer Binding to Carbon Nanotubes in Aqueous Dispersions: Residence Time on the Nanotube Surface As Obtained by NMR Diffusometry. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2635-2642.	1.2	38
30	Stejskal <sup>TM</sup> tanner equation derived in full. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2012, 40A, 205-214.	0.2	38
31	Simultaneous estimation of T1 and the flip angle in hyperpolarized NMR experiments using acquisition at non-regular time intervals. <i>Journal of Magnetic Resonance</i> , 2012, 222, 68-73.	1.2	19
32	Vegetable oil reactions within wood studied by direct $^{13}\text{C}$ excitation with $^1\text{H}$ decoupling and magic-angle sample spinning (MAS) NMR. <i>Progress in Organic Coatings</i> , 2012, 75, 259-263.	1.9	5
33	Mass Transport of Volatile Molecules in Porous Materials: Evaporation <sup>TM</sup> Condensation Phenomena Described by NMR Diffusometry. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18776-18781.	1.5	19
34	Oxidation of methyl linoleate in the presence of lignin. <i>Progress in Organic Coatings</i> , 2011, 72, 325-333.	1.9	5
35	Kinetics of starch hydrolysis and glucose mutarotation studied by NMR chemical exchange saturation transfer (CEST). <i>Carbohydrate Polymers</i> , 2011, 86, 1525-1532.	5.1	7
36	Starch granule characterization by kinetic analysis of their stages during enzymic hydrolysis: $^1\text{H}$ nuclear magnetic resonance studies. <i>Carbohydrate Polymers</i> , 2011, 83, 1775-1786.	5.1	17

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37	Erythrocyte shape reversion from echinocytes to discocytes: Kinetics via fast measurement NMR diffusion <sup>1</sup> H diffraction. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 645-652.	1.9	19
38	Digestion of starch: In vivo and in vitro kinetic models used to characterise oligosaccharide or glucose release. <i>Carbohydrate Polymers</i> , 2010, 80, 599-617.	5.1	296
39	The Pore Domain Outer Helix Contributes to Both Activation and Inactivation of the hERG K <sup>+</sup> Channel. <i>Journal of Biological Chemistry</i> , 2009, 284, 1000-1008.	1.6	43
40	Structure of the pore-helix of the hERG K <sup>+</sup> channel. <i>European Biophysics Journal</i> , 2009, 39, 111-120.	1.2	18
41	Kinetics of In Vitro Digestion of Starches Monitored by Time-Resolved <sup>1</sup> H Nuclear Magnetic Resonance. <i>Biomacromolecules</i> , 2009, 10, 638-644.	2.6	23
42	Cholesteric bonded stationary phases for high-performance liquid chromatography: a comparative study of the chromatographic behavior. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 451-461.	1.9	15
43	Erythrocyte shape evolution recorded with fast measurement NMR diffusion <sup>1</sup> H diffraction. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 1409-1416.	1.9	22
44	Pulsed field gradient magic angle spinning NMR self-diffusion measurements in liquids. <i>Journal of Magnetic Resonance</i> , 2008, 190, 113-123.	1.2	52
45	Different chemometric approaches to optimize the assay of St. John's Wort active ingredients. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 86, 159-167.	1.8	3
46	Investigation of the Chromatographic Process via Pulsed-Gradient Spin Echo Nuclear Magnetic Resonance. Role of the Solvent Composition in Partitioning Chromatography. <i>Analytical Chemistry</i> , 2006, 78, 561-566.	3.2	47
47	Optimization of the assay of naphthodianthrone in dry St John's wort extract by reversed-phase liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 716-723.	1.9	5
48	Simplified Analysis of Mixtures of Small Molecules by Chromatographic NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5950-5953.	7.2	50