

# William S Price

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6486639/publications.pdf>

Version: 2024-02-01

194  
papers

6,922  
citations

87723

38  
h-index

76769

74  
g-index

216  
all docs

216  
docs citations

216  
times ranked

7452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsed-field gradient nuclear magnetic resonance as a tool for studying translational diffusion: Part I. Basic theory. <i>Concepts in Magnetic Resonance</i> , 1997, 9, 299-336.	1.3	850
2	Pulsed-field gradient nuclear magnetic resonance as a tool for studying translational diffusion: Part II. Experimental aspects. <i>Concepts in Magnetic Resonance</i> , 1998, 10, 197-237.	1.3	480
3	Ionic Conduction and Ion Diffusion in Binary Room-Temperature Ionic Liquids Composed of [emim][BF <sub>4</sub> ] and LiBF <sub>4</sub> . <i>Journal of Physical Chemistry B</i> , 2004, 108, 19527-19532.	1.2	295
4	Self-Diffusion of Supercooled Water to 238 K Using PGSE NMR Diffusion Measurements. <i>Journal of Physical Chemistry A</i> , 1999, 103, 448-450.	1.1	284
5	<sup>195</sup> Pt NMR theory and application. <i>Chemical Society Reviews</i> , 2007, 36, 665-686.	18.7	278
6	Stress-Induced Grey Matter Loss Determined by MRI Is Primarily Due to Loss of Dendrites and Their Synapses. <i>Molecular Neurobiology</i> , 2013, 47, 645-661.	1.9	170
7	Lysozyme Aggregation and Solution Properties Studied Using PGSE NMR Diffusion Measurements. <i>Journal of the American Chemical Society</i> , 1999, 121, 11503-11512.	6.6	153
8	NMR studies of surfactants. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2004, 23A, 121-135.	0.2	144
9	Solvent signal suppression in NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2010, 56, 267-288.	3.9	117
10	Solution Dynamics in Aqueous Monohydric Alcohol Systems. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4784-4789.	1.1	108
11	Gradient NMR. <i>Annual Reports on NMR Spectroscopy</i> , 1996, 32, 51-142.	0.7	104
12	A Model for Diffusive Transport through a Spherical Interface Probed by Pulsed-Field Gradient NMR. <i>Biophysical Journal</i> , 1998, 74, 2259-2271.	0.2	97
13	Ion Transport Properties of Six Lithium Salts Dissolved in <sup>1</sup> -Butyrolactone Studied by Self-Diffusion and Ionic Conductivity Measurements. <i>Journal of the Electrochemical Society</i> , 2004, 151, A119.	1.3	94
14	Ionic conduction and self-diffusion near infinitesimal concentration in lithium salt-organic solvent electrolytes. <i>Journal of Chemical Physics</i> , 2000, 113, 1981-1991.	1.2	92
15	Correlating the NMR self-diffusion and relaxation measurements with ionic conductivity in polymer electrolytes composed of cross-linked poly(ethylene oxide-propylene oxide) doped with LiN(SO <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2000, 113, 4785-4793.	1.2	85
16	Applications for Transition-Metal Chemistry in Contrast-Enhanced Magnetic Resonance Imaging. <i>Inorganic Chemistry</i> , 2020, 59, 6648-6678.	1.9	80
17	Diffusion, conductivity and DSC studies of a polymer gel electrolyte composed of cross-linked PEO, <sup>1</sup> -butyrolactone and LiBF <sub>4</sub> . <i>Solid State Ionics</i> , 1998, 107, 1-12.	1.3	79
18	PGSE-WATERGATE, a new tool for NMR diffusion-based studies of ligand-macromolecule binding. <i>Magnetic Resonance in Chemistry</i> , 2002, 40, 391-395.	1.1	75

#	ARTICLE	IF	CITATIONS
19	A new type of sample tube for reducing convection effects in PGSE-NMR measurements of self-diffusion coefficients of liquid samples. <i>Journal of Magnetic Resonance</i> , 2004, 167, 328-333.	1.2	72
20	Water Signal Suppression in NMR Spectroscopy. <i>Annual Reports on NMR Spectroscopy</i> , 1999, , 289-354.	0.7	69
21	Strategies for Diagnosing and Alleviating Artfactual Attenuation Associated with Large Gradient Pulses in PGSE NMR Diffusion Measurements. <i>Journal of Magnetic Resonance</i> , 1999, 139, 205-212.	1.2	64
22	Delivery of polymeric nanostars for molecular imaging and endoradiotherapy through the enhanced permeability and retention (EPR) effect. <i>Theranostics</i> , 2020, 10, 567-584.	4.6	63
23	Self-diffusion coefficients of lithium, anion, polymer, and solvent in polymer gel electrolytes measured using $^7\text{Li}$ , $^{19}\text{F}$ , and $^1\text{H}$ pulsed-gradient spin-echo NMR. <i>Electrochimica Acta</i> , 2000, 45, 1313-1319.	2.6	61
24	PGSTE-WATERGATE: An STE-based PGSE NMR sequence with excellent solvent suppression. <i>Journal of Magnetic Resonance</i> , 2008, 191, 159-163.	1.2	59
25	Visualization of Freezing Behaviors in Leaf and Flower Buds of Full-Moon Maple by Nuclear Magnetic Resonance Microscopy. <i>Plant Physiology</i> , 1997, 115, 1515-1524.	2.3	57
26	Suppression of background gradients in ( $B_0$ gradient-based) NMR diffusion experiments. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2007, 30A, 261-277.	0.2	57
27	Temperature Dependence of the Self-Diffusion of Supercooled Heavy Water to 244 K. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5874-5876.	1.2	53
28	Macroscopic Background Gradient and Radiation Damping Effects on High-Field PGSE NMR Diffusion Measurements. <i>Journal of Magnetic Resonance</i> , 2001, 150, 49-56.	1.2	52
29	An NMR and Ionic Conductivity Study of Ion Dynamics in Liquid Poly(ethylene oxide)-Based Electrolytes Doped with $\text{LiN}(\text{SO}_2\text{CF}_3)_2$ . <i>Journal of Physical Chemistry B</i> , 2002, 106, 547-554.	1.2	52
30	NMR Studies on Poly(ethylene oxide)-based Polymer Electrolytes with Different Cross-Linking Doped with $\text{LiN}(\text{SO}_2\text{CF}_3)_2$ . Restricted Diffusion of the Polymer and Lithium Ion and Time-Dependent Diffusion of the Anion. <i>Macromolecules</i> , 2003, 36, 2785-2792.	2.2	48
31	Examination of Cucurbit[7]uril and Its Host-Guest Complexes by Diffusion Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2311-2314.	1.2	43
32	Self-Diffusion Coefficients of Some Hydrocarbons in Water: Measurements and Scaling Relations. <i>Journal of Physical Chemistry A</i> , 2000, 104, 5892-5894.	1.1	42
33	$J$ -compensated PGSE: an improved NMR diffusion experiment with fewer phase distortions. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 129-133.	1.1	41
34	Direct Hydrodynamic Radius Measurement on Dissolved Organic Matter in Natural Waters Using Diffusion NMR. <i>Environmental Science &amp; Technology</i> , 2012, 46, 1675-1680.	4.6	41
35	Effect of nonrectangular field gradient pulses in the stejskal and tanner (diffusion) pulse sequence. <i>Journal of Magnetic Resonance</i> , 1991, 94, 133-139.	0.5	40
36	Determination of pore space shape and size in porous systems using NMR diffusometry. Beyond the short gradient pulse approximation. <i>Journal of Magnetic Resonance</i> , 2003, 160, 139-143.	1.2	40

#	ARTICLE	IF	CITATIONS
37	Spatial and temporal control of drug release through pH and alternating magnetic field induced breakage of Schiff base bonds. <i>Polymer Chemistry</i> , 2014, 5, 3311-3315.	1.9	39
38	Freezing behaviors in leaf buds of cold-hardy conifers visualized by NMR microscopy. <i>Tree Physiology</i> , 1998, 18, 451-458.	1.4	38
39	Time Dependence of Aggregation in Crystallizing Lysozyme Solutions Probed Using NMR Self-Diffusion Measurements. <i>Biophysical Journal</i> , 2001, 80, 1585-1590.	0.2	38
40	Controlled Diffusion of Photoswitchable Receptors by Binding Anti-electrostatic Hydrogen-Bonded Phosphate Oligomers. <i>Journal of the American Chemical Society</i> , 2020, 142, 20014-20020.	6.6	35
41	Simultaneous convection compensation and solvent suppression in biomolecular NMR diffusion experiments. <i>Journal of Biomolecular NMR</i> , 2009, 45, 295-299.	1.6	34
42	Microscopic diffusivity compartmentation in formalin-fixed prostate tissue. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 614-620.	1.9	34
43	High ice nucleation activity located in blueberry stem bark is linked to primary freeze initiation and adaptive freezing behaviour of the bark. <i>AoB PLANTS</i> , 2014, 6, plu044-plu044.	1.2	33
44	Ice nucleation activity in various tissues of <i>Rhododendron</i> flower buds: their relevance to extraorgan freezing. <i>Frontiers in Plant Science</i> , 2015, 6, 149.	1.7	33
45	Pulsed-Field-Gradient NMR of Diffusive Transport through a Spherical Interface into an External Medium Containing a Relaxation Agent. <i>Journal of Magnetic Resonance Series A</i> , 1995, 114, 39-46.	1.6	32
46	NMR and ion conductivity studies on cross-linked poly(ethyleneoxide-propyleneoxide) and branched polyether doped with LiN(SO <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> . <i>Electrochimica Acta</i> , 2001, 46, 1475-1485.	2.6	31
47	Nuclear magnetic resonance (NMR) and magnetic resonance imaging (MRI) studies of corn at subzero temperatures. <i>Journal of Food Engineering</i> , 2005, 69, 199-205.	2.7	31
48	Evidence for Concerted and Mosaic Brain Evolution in Dragon Lizards. <i>Brain, Behavior and Evolution</i> , 2017, 90, 211-223.	0.9	30
49	Self-assembled supramolecular cages containing dinuclear ruthenium(II) polypyridyl complexes. <i>Inorganica Chimica Acta</i> , 2017, 458, 122-128.	1.2	29
50	Translational and rotational motion of isolated water molecules in nitromethane studied using 17O NMR. <i>Journal of Chemical Physics</i> , 2000, 113, 3686-3689.	1.2	28
51	Diffusion Studies of Dihydroxybenzene Isomers in Water-Alcohol Systems. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2734-2741.	1.2	27
52	Visualisation of Freezing Behaviours in Flower Bud Tissues of Cold-hardy <i>Rhododendron japonicum</i> by Nuclear Magnetic Resonance Micro-Imaging. <i>Functional Plant Biology</i> , 1997, 24, 599.	1.1	26
53	Characterization of the solution properties of <i>Pichia farinosa</i> killer toxin using PGSE NMR diffusion measurements. <i>Journal of Biomolecular NMR</i> , 1999, 13, 113-117.	1.6	26
54	<sup>2</sup> D-NMR gradient methods in the study of proteins. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2000, 96, 3.	4.4	26

#	ARTICLE	IF	CITATIONS
55	Recent Advances in NMR Diffusion Techniques for Studying Drug Binding. Australian Journal of Chemistry, 2003, 56, 855.	0.5	26
56	Numerical analysis of NMR diffusion measurements in the short gradient pulse limit. Journal of Magnetic Resonance, 2013, 234, 165-175.	1.2	26
57	Comment on "Boosted molecular mobility during common chemical reactions" Science, 2021, 371, .	6.0	26
58	Steady state effects in PGSE NMR diffusion experiments. Chemical Physics Letters, 2008, 462, 331-336.	1.2	25
59	Elastic and viscoelastic properties of porcine subdermal fat using MRI and inverse FEA. Biomechanics and Modeling in Mechanobiology, 2010, 9, 703-711.	1.4	25
60	Nanoassemblies of Gd-DTPA monooleyl and glycerol monooleate amphiphiles as potential MRI contrast agents. Journal of Materials Chemistry B, 2014, 2, 1225.	2.9	25
61	Viscous Calibration Liquids for Self-Diffusion Measurements. Journal of Chemical & Engineering Data, 2015, 60, 3506-3517.	1.0	25
62	Characterization of chloride ion binding to human serum albumin using chlorine NMR null point spectral analysis. Journal of the American Chemical Society, 1993, 115, 1095-1105.	6.6	24
63	Correlation of Viscosity and Conductance with $^{23}\text{Na}$ -NMR T1 Measurements. Bulletin of the Chemical Society of Japan, 1990, 63, 2961-2965.	2.0	23
64	Phenyl ring dynamics of the insulin fragment Gly-Phe-Phe(B23-B25) by solid state deuterium NMR. Journal of Molecular Structure, 1995, 355, 55-60.	1.8	23
65	Optimization of the Water-PRESS Pulse Sequence and Its Integration into Pulse Sequences for Studying Biological Macromolecules. Journal of Magnetic Resonance, 1997, 126, 256-265.	1.2	23
66	Exact solution for anisotropic diffusion-controlled reactions with partially reflecting conditions. Journal of Chemical Physics, 2007, 127, 184508.	1.2	23
67	Diffusion-based studies on the self-stacking and nanorod formation of platinum(ii) intercalators. Chemical Communications, 2009, , 1210.	2.2	23
68	Time-Resolved Diffusion NMR Measurements for Transient Processes. ChemPhysChem, 2019, 20, 926-930.	1.0	23
69	A 3D MRI-based atlas of a lizard brain. Journal of Comparative Neurology, 2018, 526, 2511-2547.	0.9	22
70	A pulsed field gradient NMR study of the aggregation and hydration of parvalbumin. Biophysical Chemistry, 1997, 65, 179-187.	1.5	21
71	Spin dynamics: Basics of nuclear magnetic resonance, 2nd edition.. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2009, 34A, 60-61.	0.2	21
72	Biexponential diffusion decay in formalin-fixed prostate tissue: Preliminary findings. Magnetic Resonance in Medicine, 2012, 68, 954-959.	1.9	21

#	ARTICLE	IF	CITATIONS
73	NMR Diffusion Measurements as a Simple Method to Examine Solvent-Solute Interactions in Mixtures of the Ionic Liquid [Bmim] <sup>+</sup> [N(SO <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> ] <sup>-</sup> and Acetonitrile. <i>ChemPhysChem</i> , 2016, 17, 3853-3862.	1.0	21
74	Spectroscopic investigations on the interactions of potent platinum(II) anticancer agents with bovine serum albumin. <i>Journal of Chemical Biology</i> , 2012, 5, 105-113.	2.2	20
75	The transport and conductivity properties of the ionic liquid EMIMTCM. <i>Journal of Molecular Liquids</i> , 2015, 201, 96-101.	2.3	20
76	Common problems and artifacts encountered in solution-state NMR experiments. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2016, 45A, .	0.2	20
77	Enhanced Diffusion of Molecular Catalysts is Due to Convection. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18864-18867.	7.2	20
78	Microviscosity of human erythrocytes studied with hypophosphite and <sup>31</sup> P-NMR. <i>Biophysical Chemistry</i> , 1989, 33, 205-215.	1.5	19
79	The Manipulation of Water Relaxation and Water Suppression in Biological Systems Using the Water-PRESS Pulse Sequence. <i>Journal of Magnetic Resonance Series B</i> , 1996, 112, 190-192.	1.6	19
80	NMR diffusion measurements of strong signals: the PGSE-Q-switch experiment. <i>Magnetic Resonance in Chemistry</i> , 2002, 40, S128-S132.	1.1	19
81	Removal of J-coupling peak distortion in PGSE experiments. <i>Journal of Magnetic Resonance</i> , 2008, 193, 311-316.	1.2	19
82	Conformation of a heptadecapeptide comprising the segment encephalitogenic in rhesus monkey. <i>Biochemistry</i> , 1988, 27, 8990-8999.	1.2	18
83	NMR Imaging. <i>Annual Reports on NMR Spectroscopy</i> , 1998, 35, 139-216.	0.7	18
84	The protective effect of apolipoprotein in models of trophoblast invasion and preeclampsia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R40-R48.	0.9	18
85	Porous Upconversion Nanostructures as Bimodal Biomedical Imaging Contrast Agents. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12168-12174.	1.5	18
86	A <sup>35</sup> Cl and <sup>37</sup> Cl NMR study of chloride binding to the erythrocyte anion transport protein. <i>Biophysical Chemistry</i> , 1991, 40, 329-337.	1.5	17
87	MAG-PGSTE: A new STE-based PGSE NMR sequence for the determination of diffusion in magnetically inhomogeneous samples. <i>Journal of Magnetic Resonance</i> , 2008, 195, 40-44.	1.2	17
88	Solvent suppression using phase-modulated binomial-like sequences and applications to diffusion measurements. <i>Journal of Magnetic Resonance</i> , 2008, 194, 108-114.	1.2	17
89	Diffusion NMR studies on fish antifreeze proteins and synthetic analogues. <i>FEBS Letters</i> , 2006, 580, 3911-3915.	1.3	16
90	Use of diffusion magnetic resonance imaging to correlate the developmental changes in grape berry tissue structure with water diffusion patterns. <i>Plant Methods</i> , 2014, 10, 35.	1.9	16

#	ARTICLE	IF	CITATIONS
91	Evaluation of Gd-DTPA-Monophytanyl and Phytantriol Nanoassemblies as Potential MRI Contrast Agents. <i>Langmuir</i> , 2015, 31, 1556-1563.	1.6	16
92	Freezing behaviours in wintering <i>Cornus florida</i> flower bud tissues revisited using MRI. <i>Plant, Cell and Environment</i> , 2016, 39, 2663-2675.	2.8	16
93	Sexual selection predicts brain structure in dragon lizards. <i>Journal of Evolutionary Biology</i> , 2017, 30, 244-256.	0.8	16
94	Physical characterization using diffusion NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 414-424.	1.1	16
95	Design and preclinical evaluation of nanostars for the passive pretargeting of tumor tissue. <i>Nuclear Medicine and Biology</i> , 2020, 84-85, 63-72.	0.3	16
96	Factors Affecting the Solid-State Polymerization of 1,4-Bis(1,3-octadecadiynyl)benzene to a Polydiacetylene. <i>Macromolecules</i> , 1995, 28, 5363-5369.	2.2	14
97	Protein association studied by NMR diffusometry. <i>Current Opinion in Colloid and Interface Science</i> , 2006, 11, 19-23.	3.4	14
98	A PGSE diffusion and electrophoretic NMR study of Cs <sup>+</sup> and Na <sup>+</sup> dynamics in aqueous crown ether systems. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, 152-156.	1.1	14
99	An improved approach to calibrating high magnetic field gradients for pulsed field gradient experiments. <i>Journal of Magnetic Resonance</i> , 2008, 194, 25-28.	1.2	14
100	NMR q-space imaging of macroscopic pores using singlet spin states. <i>Journal of Magnetic Resonance</i> , 2010, 204, 346-348.	1.2	14
101	NMR diffusometry applied to liquids. <i>Journal of Molecular Liquids</i> , 2010, 156, 38-44.	2.3	14
102	Diffraction using singlet spin states and various NMR coherences in a J-coupled AX spin system. <i>RSC Advances</i> , 2012, 2, 3352.	1.7	14
103	Mutual and self-diffusion of charged porphyrines in aqueous solutions. <i>Journal of Chemical Thermodynamics</i> , 2012, 47, 312-319.	1.0	14
104	Preparation and physical properties of a macroscopically aligned lyotropic hexagonal phase templated hydrogel. <i>Reactive and Functional Polymers</i> , 2013, 73, 911-922.	2.0	14
105	Magnetic Resonance Imaging Detects Placental Hypoxia and Acidosis in Mouse Models of Perturbed Pregnancies. <i>PLoS ONE</i> , 2013, 8, e59971.	1.1	14
106	NMR imaging and diffusion. <i>Adsorption</i> , 2021, 27, 503-533.	1.4	14
107	Is It Time to Forgo the Use of the Terms "Spin Lattice" and "Spin Spin" Relaxation in NMR and MRI? <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6305-6312.	2.1	13
108	Following Molecular Mobility during Chemical Reactions: No Evidence for Active Propulsion. <i>Journal of the American Chemical Society</i> , 2021, 143, 20884-20890.	6.6	13

#	ARTICLE	IF	CITATIONS
109	Rapid Online Analysis of Photopolymerization Kinetics and Molecular Weight Using Diffusion NMR. ACS Macro Letters, 2022, 11, 166-172.	2.3	13
110	A simple and inexpensive method for preparing erythrocyte membranes by filtration through a hollow-fiber system. Analytical Biochemistry, 1989, 179, 190-193.	1.1	12
111	Multispin order relaxation study of the hypophosphite ion. The Journal of Physical Chemistry, 1991, 95, 7546-7551.	2.9	12
112	Microviscosity of human erythrocytes studied using hypophosphite two-spin order relaxation. Biophysical Journal, 1992, 61, 621-630.	0.2	12
113	MQ-PGSTE: A new multi-quantum STE-based PGSE NMR sequence. Journal of Magnetic Resonance, 2009, 198, 271-274.	1.2	12
114	Hydrodynamic size and scaling relations for linear and 4 arm star PVAc studied using PGSE NMR. Journal of Molecular Liquids, 2010, 156, 45-51.	2.3	12
115	Gd <sup>3+</sup> TPA <sup>-</sup> Dopamine <sup>+</sup> Bisphityl Amphiphile: Synthesis, Characterisation and Relaxation Parameters of the Nanoassemblies and Their Potential as MRI Contrast Agents. Chemistry - A European Journal, 2015, 21, 13950-13960.	1.7	12
116	Dipolar relaxation revisited: A complete derivation for the two spin case. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2015, 44, 74-113.	0.2	12
117	Macromolecular crowding studies of amino acids using NMR diffusion measurements and molecular dynamics simulations. Frontiers in Physics, 2015, 3, .	1.0	12
118	NMR diffusion studies of spherical molecules: Tetramethylsilane and buckyballs. Journal of Molecular Liquids, 2016, 214, 157-161.	2.3	12
119	A complete derivation of the K�rger equations for analyzing NMR diffusion measurements of exchanging systems. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2018, 47A, .	0.2	12
120	NMR Studies of Nanoscale Organization and Dynamics in Polymer Electrolytes. Australian Journal of Chemistry, 2004, 57, 1185.	0.5	12
121	Impediments to the accurate structural characterisation of a highly concentrated emulsion studied using NMR diffusion diffraction. Journal of Colloid and Interface Science, 2009, 338, 163-168.	5.0	11
122	Averaging Effects in PGSE NMR Attenuations Observed in Bimodal Molecular Weight PMMA Solutions. Macromolecules, 2010, 43, 7351-7356.	2.2	11
123	Restricted diffusion in annular geometrical pores. Journal of Chemical Physics, 2013, 138, 094202.	1.2	11
124	<sup>1</sup> H NMR Diffusion Studies of Water Self-Diffusion in Supercooled Aqueous Sodium Chloride Solutions. Journal of Physical Chemistry A, 2014, 118, 3307-3312.	1.1	11
125	Time-course study of grape berry split using diffusion magnetic resonance imaging. Australian Journal of Grape and Wine Research, 2016, 22, 240-244.	1.0	11
126	Enhanced Diffusion of Molecular Catalysts is Due to Convection. Angewandte Chemie, 2019, 131, 19040-19043.	1.6	11



#	ARTICLE	IF	CITATIONS
127	Hypophosphite transport in human erythrocytes studied by overdetermined one-dimensional NMR exchange analysis. <i>NMR in Biomedicine</i> , 1990, 3, 59-63.	1.6	10
128	Ion Diffusion Restricted by Time-Dependent Barriers in a Viscous Polyethylene-Based Liquid Electrolyte. <i>Macromolecules</i> , 2003, 36, 8596-8598.	2.2	10
129	Translational diffusion of glycine in erythrocytes measured at high resolution with pulsed field gradients. <i>Journal of Magnetic Resonance</i> , 1989, 83, 160-166.	0.5	9
130	Some Recent Developments in NMR Approaches for Studying Liquid Molecular Dynamics and Their Biological Applications. <i>Journal of the Chinese Chemical Society</i> , 1992, 39, 479-496.	0.8	9
131	Visualizing the postembryonic development of <i>Sarcophaga peregrina</i> (flesh fly) by NMR microscopy. <i>Physiological Entomology</i> , 1999, 24, 386-390.	0.6	9
132	Photocatalytic properties of Ta-doped TiO <sub>2</sub> . <i>Ionics</i> , 2017, 23, 3517-3531.	1.2	9
133	Ice Nucleation Activity in Plants: The Distribution, Characterization, and Their Roles in Cold Hardiness Mechanisms. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1081, 99-115.	0.8	9
134	Correlation of ultra-high field MRI with histopathology for evaluation of rectal cancer heterogeneity. <i>Scientific Reports</i> , 2019, 9, 9311.	1.6	9
135	Restricted diffusion of bicarbonate and hypophosphite ions modulated by transport in suspensions of red blood cells. <i>Journal of Magnetic Resonance</i> , 1990, 90, 100-110.	0.5	8
136	Thiol-water proton exchange of glutathione, cysteine, and N-acetylcysteine: Implications for CEST MRI. <i>NMR in Biomedicine</i> , 2020, 33, e4188.	1.6	8
137	Comment on "Using NMR to Test Molecular Mobility during a Chemical Reaction". <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5932-5937.	2.1	8
138	Some "Reflections" on the Effects of Finite Gradient Pulse Lengths in PGSE NMR Experiments in Restricted Systems. <i>Israel Journal of Chemistry</i> , 2010, 43, 25-32.	1.0	7
139	Steady state effects in a two-pulse diffusion-weighted sequence. <i>Journal of Chemical Physics</i> , 2015, 142, 154201.	1.2	7
140	WaterControl: self-diffusion based solvent signal suppression enhanced by selective inversion. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 447-451.	1.1	7
141	Pulsed-field gradient nuclear magnetic resonance as a tool for studying translational diffusion: Part 1. Basic theory. , 1997, 9, 299.		7
142	NMR study of the structure and self-association of core peptide in aqueous solution and DPC micelles. <i>Biopolymers</i> , 2011, 96, 177-180.	1.2	6
143	Non-Ideal Behaviour and Solution Interactions in Binary DMSO Solutions. <i>ChemPhysChem</i> , 2015, 16, 3814-3823.	1.0	6
144	Quantification of placental change in mouse models of preeclampsia using magnetic resonance microscopy. <i>European Journal of Histochemistry</i> , 2018, 62, 2868.	0.6	6

#	ARTICLE	IF	CITATIONS
145	Effects of higher-rank multipoles on spectral lineshapes of quadrupolar nuclei near the null point in inversion-recovery experiments. <i>Journal of Magnetic Resonance</i> , 1992, 98, 134-141.	0.5	5
146	Chloride-37 nuclear magnetic resonance spectroscopic study of binding of salicylic acid and other hydroxybenzoic acids to the band 3 anion transport protein of human erythrocytes. <i>Journal of Pharmaceutical Sciences</i> , 1992, 81, 419-423.	1.6	5
147	A new phase modulated binomial-like selective inversion sequence for solvent signal suppression in NMR. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 115-119.	1.1	5
148	Shortening NMR experimental times. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 847-851.	1.1	5
149	Design and Construction of a Pulsed Field Gradient NMR Probe for a High-Field Superconducting Magnet. <i>Journal of the Chinese Chemical Society</i> , 1994, 41, 119-127.	0.8	4
150	Artifacts in Experimental and Simulated Solid-State <sup>2</sup> H NMR Powder Spectra. <i>Journal of Magnetic Resonance Series A</i> , 1995, 114, 73-79.	1.6	4
151	A physical interpretation of product operator terms. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2009, 34A, 322-356.	0.2	4
152	Influence of polymer architecture on the averaging effects in PGSE NMR attenuations for bimodal solutions of linear and star poly(vinyl acetates). <i>Journal of Molecular Liquids</i> , 2012, 167, 110-114.	2.3	4
153	Efficient and precise calculation of the b-matrix elements in diffusion-weighted imaging pulse sequences. <i>Journal of Magnetic Resonance</i> , 2014, 243, 65-73.	1.2	4
154	Towards advanced paramagnetic nanoassemblies of highly ordered interior nanostructures as potential MRI contrast agents. <i>New Journal of Chemistry</i> , 2017, 41, 2735-2744.	1.4	4
155	Jump-and-return sandwiches: A new family of binomial-like selective inversion sequences with improved performance. <i>Journal of Magnetic Resonance</i> , 2018, 288, 100-108.	1.2	4
156	Hydrogen isotope replacement changes hydration and large scale structure, but not small scale structure, of agarose hydrogel networks. <i>European Physical Journal E</i> , 2019, 42, 53.	0.7	4
157	Effect of placental growth factor in models of experimental pre-eclampsia and trophoblast invasion. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2020, 47, 49-59.	0.9	4
158	Applications of WaterControl to TOCSY and COSY experiments. <i>Journal of Biomolecular NMR</i> , 2020, 74, 333-340.	1.6	4
159	3D visualisation of voids in grapevine flowers and berries using X-ray micro computed tomography. <i>Australian Journal of Grape and Wine Research</i> , 2021, 27, 141-148.	1.0	4
160	Effects of Higher-Rank Multipoles on Spectral Lineshapes of Higher Quadrupolar Nuclei near the Null Point in Inversion-Recovery Experiments. <i>Journal of Magnetic Resonance Series A</i> , 1994, 109, 98-102.	1.6	3
161	Diffusion and its measurement. , 0, , 1-68.		3
162	Modeling diffusion in restricted systems using the heat kernel expansion. <i>Journal of Chemical Physics</i> , 2010, 132, 234108.	1.2	3

#	ARTICLE	IF	CITATIONS
163	Determining a $\hat{\epsilon}$ -diffusion-averaged $\hat{\epsilon}$ ™ characteristic ratio for aligned lyotropic hexagonal phases using PCSE NMR self-diffusion measurements, random walk simulations and obstruction models. <i>Journal of Molecular Liquids</i> , 2017, 236, 107-116.	2.3	3
164	Solute transport within grape berries inferred from the paramagnetic properties of manganese. <i>Functional Plant Biology</i> , 2017, 44, 969.	1.1	3
165	NMR Versatility. , 2018, , 233-260.		3
166	A Simple and Effective Binomial Block Based Pulse Sequence Capable of Suppressing Multiple NMR Signals. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9712-9720.	1.1	3
167	Explicit phenomenological solutions for magnetization exposed to an arbitrary NMR diffusion steady state pulse sequence. <i>Journal of Chemical Physics</i> , 2021, 155, 144204.	1.2	3
168	Application of null-point spectra in inversion-recovery experiments for studying Quadrupolar Nuclei Involved in exchange processes. <i>Journal of Magnetic Resonance</i> , 1992, 97, 656-660.	0.5	2
169	The Effects of Hypothermia on the Intracellular pH of Erythrocytes Studied Using $^{31}\text{P}$ NMR and Endogenous Compounds. <i>Clinical Chemistry and Laboratory Medicine</i> , 1993, 31, 413-8.	1.4	2
170	Diffusion Studies of Phenylenediamine Isomers in Water-Monohydric-Alcohol Systems. <i>Australian Journal of Chemistry</i> , 2014, 67, 922.	0.5	2
171	Fast determination of the $\langle 1/\text{sup} \rangle$ H relaxivities of MRI contrast agents. <i>Magnetic Resonance in Chemistry</i> , 2016, 54, 58-61.	1.1	2
172	Theory of NMR diffusion and flow measurements. , 2009, , 69-119.		2
173	Chapter 16. Q-space Singlet NMR. <i>New Developments in NMR</i> , 2020, , 302-319.	0.1	2
174	Diffusion NMR: A Tool to Investigate the Dynamics of Organic Systems. <i>Current Organic Chemistry</i> , 2018, 22, 758-768.	0.9	2
175	Preferential freezing avoidance localised in anthers and embryo sacs in wintering <i>Daphne kamtschatica</i> var. <i>jezoensis</i> flower buds visualised by magnetic resonance imaging. <i>Plant, Cell and Environment</i> , 2022, 45, 2109-2125.	2.8	2
176	NMR studies of polydiacetylenes having alkyl chains. Molecular motions of precursor monomers and the polymers at various stages of the solid-state polymerization. <i>Journal of Molecular Structure</i> , 1998, 441, 205-211.	1.8	1
177	Probing solute $\hat{\epsilon}$ solvent interactions using difluorobenzene isomers in water $\hat{\epsilon}$ monohydric-alcohol mixtures. <i>Journal of Molecular Liquids</i> , 2014, 198, 392-397.	2.3	1
178	NOESY-WaterControl: a new NOESY sequence for the observation of under-water protein resonances. <i>Journal of Biomolecular NMR</i> , 2017, 67, 233-241.	1.6	1
179	NMR diffusion and relaxation studies of 2-nitroimidazole and albumin interactions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 193, 318-323.	2.0	1
180	NMR Diffusometry. , 2018, , 911-926.		1

#	ARTICLE	IF	CITATIONS
181	Structural changes in copper based metal-organic framework catalyst induced by organic solvents. <i>Catalysis Today</i> , 2020, 351, 2-5.	2.2	1
182	Pulsed Gradient Spin-Echo NMR. , 2011, , 159-185.		1
183	Protein Aggregation Studies Using PFG NMR Diffusion Measurements. , 1999, , 35-42.		0
184	Some "Reflections" on the Effects of Finite Gradient Pulse Lengths in PGSE NMR Experiments in Restricted Systems. <i>ChemInform</i> , 2004, 35, no.	0.1	0
185	Microscopic diffusivity compartmentation in formalin-fixed prostate tissue. <i>Magnetic Resonance in Medicine</i> , 2012, 68, spcone-spcone.	1.9	0
186	A magnetic gradient induced force in NMR restricted diffusion experiments. <i>Journal of Chemical Physics</i> , 2014, 140, 124104.	1.2	0
187	Frontispiece: Gd <sup>3+</sup> -DTPA <sup>4-</sup> -Dopamine <sup>3+</sup> -Bisphityl Amphiphile: Synthesis, Characterisation and Relaxation Parameters of the Nanoassemblies and Their Potential as MRI Contrast Agents. <i>Chemistry - A European Journal</i> , 2015, 21, .	1.7	0
188	Low-bandwidth space/frequency component separation for quantitative imaging. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 137-144.	1.1	0
189	NMR Diffusometry. , 2017, , 1-17.		0
190	PGSE measurements in simple porous systems. , 0, , 120-146.		0
191	PGSE measurements in complex and exchanging systems. , 0, , 147-184.		0
192	PGSE hardware. , 2009, , 185-197.		0
193	Setup and analysis of PGSE experiments. , 0, , 198-220.		0
194	PGSE hardware and sample problems. , 0, , 221-255.		0