List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Digestion of starch: In vivo and in vitro kinetic models used to characterise oligosaccharide or glucose release. Carbohydrate Polymers, 2010, 80, 599-617.	10.2	296
2	Human erythrocyte metabolism studies by 1 H spin echo NMR. FEBS Letters, 1977, 82, 12-16.	2.8	277
3	NMR diffusion measurements to characterise membrane transport and solute binding. Progress in Nuclear Magnetic Resonance Spectroscopy, 1997, 30, 39-68.	7.5	230
4	Imaging Brain Deoxyglucose Uptake and Metabolism by Glucocest MRI. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1270-1278.	4.3	150
5	Defensins and the convergent evolution of platypus and reptile venom genes. Genome Research, 2008, 18, 986-994.	5.5	137
6	NMR "diffusion-diffraction―of water revealing alignment of erythrocytes in a magnetic field and their dimensions and membrane transport characteristics. Magnetic Resonance in Medicine, 1997, 37, 637-643.	3.0	134
7	Model of 2,3-bisphosphoglycerate metabolism in the human erythrocyte based on detailed enzyme kinetic equations: equations and parameter refinement. Biochemical Journal, 1999, 342, 581-596.	3.7	125
8	Drug Binding to the Inactivated State Is Necessary but Not Sufficient for High-Affinity Binding to Human <i>Ether-Ã-go-go</i> -Related Gene Channels. Molecular Pharmacology, 2008, 74, 1443-1452.	2.3	124
9	Hepcidin, the hormone of iron metabolism, is bound specifically to α-2-macroglobulin in blood. Blood, 2009, 113, 6225-6236.	1.4	111
10	The Gárdos channel: a review of the Ca2+-activated K+ channel in human erythrocytes. International Journal of Biochemistry and Cell Biology, 2003, 35, 1182-1197.	2.8	103
11	Proton Nuclear Magnetic ResonanceBased Metabonomics for Rapid Diagnosis of Meningitis and Ventriculitis. Clinical Infectious Diseases, 2005, 41, 1582-1590.	5.8	103
12	The Î <sup>2</sup> -defensin-fold family of polypeptides. Toxicon, 2004, 44, 581-588.	1.6	98
13	AAV2/8-mediated Correction of OTC Deficiency Is Robust in Adult but Not Neonatal Spfash Mice. Molecular Therapy, 2009, 17, 1340-1346.	8.2	98
14	Model of 2,3-bisphosphoglycerate metabolism in the human erythrocyte based on detailed enzyme kinetic equations1: in vivo kinetic characterization of 2,3-bisphosphoglycerate synthase/phosphatase using 13C and 31P NMR. Biochemical Journal, 1999, 342, 567-580.	3.7	92
15	Apparatus for rapid adjustment of the degree of alignment of NMR samples in aqueous media: Verification with residual quadrupolar splittings in 23Na and 133Cs spectra. Journal of Magnetic Resonance, 2006, 180, 256-265.	2.1	91
16	Reaction of cis- and trans-[PtCl2(NH3)2] with reduced glutathione inside human red blood cells, studied by 1H and 15N-{1H} DEPT NMR. Journal of Inorganic Biochemistry, 1990, 38, 327-345.	3.5	90
17	Reaction of cis- and trans-[PtCl2(NH3)2] with reduced glutathione studied by 1H, 13C, 195Pt and 15N-{1H} DEPT NMR. Journal of Inorganic Biochemistry, 1990, 38, 305-326.	3.5	88
18	Model of 2,3-bisphosphoglycerate metabolism in the human erythrocyte based on detailed enzyme kinetic equations: computer simulation and Metabolic Control Analysis. Biochemical Journal, 1999, 342, 597-604.	3.7	86

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19	Defensin-like peptide-2 from platypus venom: member of a class of peptides with a distinct structural fold. Biochemical Journal, 2000, 348, 649-656.	3.7	81
20	The N–Terminal Tail of hERG Contains an Amphipathic α–Helix That Regulates Channel Deactivation. PLoS ONE, 2011, 6, e16191.	2.5	79
21	NMR Study of the Association of Propofol with Nonionic Surfactants. Langmuir, 2003, 19, 2088-2095.	3.5	76
22	D-Amino acid residue in the C-type natriuretic peptide from the venom of the mammal,Ornithorhynchus anatinus, the Australian platypus. FEBS Letters, 2002, 524, 172-176.	2.8	75
23	Glutathione Synthesis and Turnover in the Human Erythrocyte. Journal of Biological Chemistry, 2010, 285, 23557-23567.	3.4	75
24	Characterisation of erythrocyte shapes and sizes by NMR diffusion-diffraction of water: correlations with electron micrographs. Magnetic Resonance Imaging, 1998, 16, 423-434.	1.8	74
25	Novel venom gene discovery in the platypus. Genome Biology, 2010, 11, R95.	9.6	72
26	Regulation of the human-erythrocyte hexose-monophosphate shunt under conditions of oxidative stress. A study using NMR spectroscopy, a kinetic isotope effect, a reconstituted system and computer simulation. FEBS Journal, 1985, 150, 371-380.	0.2	71
27	Kinetic analysis of the human erythrocyte glyoxalase system using 1H NMR and a computer model. FEBS Journal, 1990, 193, 83-90.	0.2	71
28	Pulsed field gradient nuclear magnetic resonance as a tool for studying drug delivery systems. Concepts in Magnetic Resonance, 2003, 19A, 51-64.	1.3	71
29	Mechanism of Action of P-Glycoprotein in Relation to Passive Membrane Permeation. International Review of Cytology, 1999, 190, 175-250.	6.2	70
30	Structure of the HERG K+ Channel S5P Extracellular Linker. Journal of Biological Chemistry, 2003, 278, 42136-42148.	3.4	69
31	Kinetics of uptake and deacetylation of N-acetylcysteine by human erythrocytes. International Journal of Biochemistry and Cell Biology, 2007, 39, 1698-1706.	2.8	69
32	Role of <i>N</i> -acetylcysteine and cystine in glutathione synthesis in human erythrocytes. Redox Report, 2009, 14, 115-124.	4.5	69
33	13C NMR Studies of Vitamin C Transport and Its Redox Cycling in Human Erythrocytesâ€. Biochemistry, 1998, 37, 7578-7588.	2.5	66
34	Phospholipid composition of erythrocyte membranes and plasma of mammalian blood including australian marsupials; Quantitative 31P NMR Analysis using detergent. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1996, 113, 221-227.	1.6	60
35	Identification of a Novel Family of Proteins in Snake Venoms. Journal of Biological Chemistry, 2003, 278, 40097-40104.	3.4	60
36	D-Amino acid residue in a defensin-like peptide from platypus venom: effect on structure and chromatographic properties. Biochemical Journal, 2005, 391, 215-220.	3.7	60

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37	PFG NMR diffusion experiments for complex systems. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2006, 28A, 249-269.	0.5	59
38	Model of 2,3-bisphosphoglycerate metabolism in the human erythrocyte based on detailed enzyme kinetic equations1: equations and parameter refinement. Biochemical Journal, 1999, 342, 581.	3.7	59
39	Solution structure of a defensin-like peptide from platypus venom. Biochemical Journal, 1999, 341, 785-794.	3.7	57
40	The HERG K + channel: progress in understanding the molecular basis of its unusual gating kinetics. European Biophysics Journal, 2004, 33, 89-97.	2.2	57
41	Pathways of glutamine metabolism in Spodoptera frugiperda (Sf9) insect cells: evidence for the presence of the nitrogen assimilation system, and a metabolic switch by 1H/15N NMR. Journal of Biotechnology, 2000, 78, 23-37.	3.8	55
42	Tunable-Alignment Chiral System Based on Gelatin for NMR Spectroscopy. Journal of the American Chemical Society, 2007, 129, 5340-5341.	13.7	54
43	Parametric-Equation Representation of Biconcave Erythrocytes. Bulletin of Mathematical Biology, 1999, 61, 209-220.	1.9	53
44	Comparison of computer simulations of the F-type and L-type non-oxidative hexose monophosphate shunts with 31P-NMR experimental data from human erythrocytes. FEBS Journal, 1989, 180, 399-420.	0.2	52
45	Cell volume dependence of 1H spin-echo NMR signals in human erythrocyte suspensions. Biochimica Et Biophysica Acta - Molecular Cell Research, 1984, 803, 137-144.	4.1	51
46	Glutamine and αâ€ketoglutarate as glutamate sources for glutathione synthesis in human erythrocytes. FEBS Journal, 2011, 278, 3152-3163.	4.7	51
47	Substrate Specificity of Platypus Venom L-to-D-Peptide Isomerase. Journal of Biological Chemistry, 2008, 283, 8969-8975.	3.4	49
48	Effects of cholesterol on transmembrane water diffusion in human erythrocytes measured using pulsed field gradient NMR. Biophysical Chemistry, 1995, 55, 197-208.	2.8	48
49	Diffusion of solutes in agarose and alginate gels:1H and23Na PFGSE and23Na TQF NMR studies. Magnetic Resonance in Medicine, 1997, 37, 44-52.	3.0	48
50	Mammalianl-to-d-amino-acid-residue isomerase from platypus venom. FEBS Letters, 2006, 580, 1587-1591.	2.8	48
51	The effects of longâ€ŧerm storage of human red blood cells on the glutathione synthesis rate and steadyâ€state concentration. Transfusion, 2011, 51, 1450-1459.	1.6	47
52	Model of 2,3-bisphosphoglycerate metabolism in the human erythrocyte based on detailed enzyme kinetic equations1: in vivo kinetic characterization of 2,3-bisphosphoglycerate synthase/phosphatase using 13C and 31P NMR. Biochemical Journal, 1999, 342, 567.	3.7	47
53	31P NMR spin-transfer in the phosphoglyceromutase reaction. FEBS Journal, 1984, 143, 643-649.	0.2	45
54	Physical basis of the effect of hemoglobin on the phosphorus-31 NMR chemical shifts of various phosphoryl compounds. Biochemistry, 1988, 27, 8803-8810.	2.5	45

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55	Structural Selectivity and Molecular Nature ofl-Glutamate Transport in Cultured Human Fibroblasts. Archives of Biochemistry and Biophysics, 1998, 353, 356-364.	3.0	44
56	Redox Reactions and Electron Transfer Across the Red Cell Membrane. IUBMB Life, 2003, 55, 375-385.	3.4	44
57	1H and31P NMR and HPLC studies of mouse L1210 Leukemia cell extracts: The effect of Au(I) and Cu(I) diphosphine complexes on the cell metabolism. Magnetic Resonance in Medicine, 1991, 18, 142-158.	3.0	43
58	Solution structure of CnErg1 (Ergtoxin), a HERG specific scorpion toxin. FEBS Letters, 2003, 539, 138-142.	2.8	43
59	The Pore Domain Outer Helix Contributes to Both Activation and Inactivation of the hERG K+ Channel. Journal of Biological Chemistry, 2009, 284, 1000-1008.	3.4	43
60	Spin-exchange NMR spectroscopy in studies of the kinetics of enzymes and membrane transport. NMR in Biomedicine, 1990, 3, 102-119.	2.8	42
61	The S4–S5 Linker Acts as a Signal Integrator for hERG K+ Channel Activation and Deactivation Gating. PLoS ONE, 2012, 7, e31640.	2.5	42
62	Intracellular pH in stored erythrocytes. Refinement and further characterisation of the 31P-NMR methylphosphonate procedure. Biochimica Et Biophysica Acta - Molecular Cell Research, 1986, 885, 23-33.	4.1	41
63	Heteronuclear NMR studies of metabolites produced byCryptococcus neoformans in culture media: Identification of possible virulence factors. Magnetic Resonance in Medicine, 1999, 42, 442-453.	3.0	41
64	Induction and Prevention of Severe Hyperammonemia in the spfash Mouse Model of Ornithine Transcarbamylase Deficiency Using shRNA and rAAV-mediated Gene Delivery. Molecular Therapy, 2011, 19, 854-859.	8.2	41
65	Effect of nonrectangular field gradient pulses in the stejskal and tanner (diffusion) pulse sequence. Journal of Magnetic Resonance, 1991, 94, 133-139.	0.5	40
66	Biochemical and Functional Characterisation of Secreted Phospholipase Activities from Cryptococcus Neoformans in their Naturally Occurring State. Journal of Medical Microbiology, 1999, 48, 731-740.	1.8	40
67	Thermodynamic and Hydrodynamic Properties of Human Tropoelastin. Journal of Biological Chemistry, 2001, 276, 28042-28050.	3.4	40
68	Understanding and utilising mammalian venom via a platypus venom transcriptome. Journal of Proteomics, 2009, 72, 155-164.	2.4	40
69	Assignment of Coherence Features in NMRq-Space Plots to Particular Diffusion Modes in Erythrocyte Suspensions. Journal of Magnetic Resonance, 1999, 138, 135-143.	2.1	39
70	Adeno-associated Virus-mediated Rescue of Neonatal Lethality in Argininosuccinate Synthetase-deficient Mice. Molecular Therapy, 2013, 21, 1823-1831.	8.2	39
71	Perturbation of homogeneous magnetic fields by isolated single and confocal spheroids. Implications for NMR spectroscopy of cells. NMR in Biomedicine, 1989, 2, 151-160.	2.8	38
72	Quantitative31P nuclear magnetic resonance analysis of the phospholipids of erythrocyte membranes using detergent. Lipids, 1996, 31, 765-770.	1.7	38

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73	Analytical Solutions and Simulations for Spin-Echo Measurements of Diffusion of Spins in a Sphere with Surface and Bulk Relaxation. Journal of Magnetic Resonance Series B, 1996, 112, 1-17.	1.6	38
74	Stejskal–tanner equation derived in full. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2012, 40A, 205-214.	0.5	38
75	Mathematical modelling of the urea cycle. FEBS Journal, 2003, 270, 3953-3961.	0.2	37
76	Convection-compensating PGSE experiment incorporating excitation-sculpting water suppression (CONVEX). Journal of Magnetic Resonance, 2004, 169, 92-101.	2.1	37
77	Endogenous phospholipase and choline release in human erythrocytes: A study using 1H NMR spectroscopy. Biochemical and Biophysical Research Communications, 1982, 105, 1280-1287.	2.1	36
78	Direct quantitative analysis of enzyme-catalyzed reactions by two-dimensional nuclear magnetic resonance spectroscopy: adenylate kinase and phosphoglyceromutase. Journal of the American Chemical Society, 1986, 108, 169-173.	13.7	36
79	Direct NMR evidence that prolidase is specific for the trans isomer of imidodipeptide substrates. Biochemistry, 1986, 25, 1054-1062.	2.5	36
80	Permeability Coefficients from NMR q-Space Data: Models with Unevenly Spaced Semi-permeable Parallel Membranes. Journal of Magnetic Resonance, 1999, 139, 258-272.	2.1	36
81	NMR studies of diffusional water permeability of red blood cells from macropodid marsupials (kangaroos and wallabies). Comparative Biochemistry and Physiology A, Comparative Physiology, 1993, 104, 799-803.	0.6	35
82	Elevated glutamate dehydrogenase flux in glucose-deprived hybridoma and myeloma cells: Evidence from1H/15N NMR. , 1998, 60, 508-517.		35
83	Defensin-like peptide-2 from platypus venom: member of a class of peptides with a distinct structural fold. Biochemical Journal, 2000, 348, 649.	3.7	35
84	Why does the mammalian red blood cell have aquaporins?. BioSystems, 2005, 82, 189-196.	2.0	35
85	Rapid simulation and analysis of isotopomer distributions using constraints based on enzyme mechanisms: an example from HT29 cancer cells. Bioinformatics, 2005, 21, 3558-3564.	4.1	35
86	NMR (Pro)chiral Discrimination Using Polysaccharide Gels. Chemistry - A European Journal, 2009, 15, 12189-12191.	3.3	35
87	Model of 2,3-bisphosphoglycerate metabolism in the human erythrocyte based on detailed enzyme kinetic equations1: computer simulation and Metabolic Control Analysis. Biochemical Journal, 1999, 342, 597.	3.7	35
88	Accelerating metabolism and transmembrane cation flux by distorting red blood cells. Science Advances, 2017, 3, eaao1016.	10.3	34
89	Hypoxia-Responsive Cobalt Complexes in Tumor Spheroids: Laser Ablation Inductively Coupled Plasma Mass Spectrometry and Magnetic Resonance Imaging Studies. Inorganic Chemistry, 2017, 56, 9860-9868.	4.0	34
90	Conformation of reduced glutathione in aqueous solution by 1H and 13C n.m.r International Journal of Peptide and Protein Research, 1987, 29, 638-646.	0.1	33

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91	Nuclear Magnetic Resonance of Biological Samples. Critical Reviews in Analytical Chemistry, 1981, 12, 155-231.	3.5	33
92	Clucose transport in human erythrocytes measured using13C NMR spin transfer. FEBS Letters, 1987, 219, 5-10.	2.8	32
93	High control coefficient of transketolase in the nonoxidative pentose phosphate pathway of human erythrocytes: NMR, antibody, and computer simulation studies. Biochemistry, 1992, 31, 12792-12798.	2.5	32
94	Model of the pH-Dependence of the Concentrations of Complexes Involving Metabolites, Haemoglobin and Magnesium Ions in the Human Erythrocyte. FEBS Journal, 1997, 245, 71-83.	0.2	32
95	Measurement of choline concentration and transport in human erythrocytes by 1H NMR: Comparison of normal blood and that from lithium-treated psychiatric patients. Clinica Chimica Acta, 1980, 104, 77-85.	1.1	31
96	Inhibition and active-site modelling of prolidase. FEBS Journal, 1989, 180, 377-384.	0.2	31
97	NMR structure of bucandin, a neurotoxin from the venom of the Malayan krait (Bungarus candidus). Biochemical Journal, 2001, 360, 539-548.	3.7	31
98	Proton NMR spectroscopic studies of dipeptidase in human erythrocytes. Biochemical and Biophysical Research Communications, 1983, 110, 305-312.	2.1	29
99	Characterization of transmembrane chemical shift differences in the phosphorus-31 NMR spectra of various phosphoryl compounds added to erythrocyte suspensions. Biochemistry, 1988, 27, 8795-8802.	2.5	29
100	Evidence of Red Cell Alignment in the Magnetic Field of an NMR Spectrometer Based on the Diffusion Tensor of Water. Journal of Magnetic Resonance, 2000, 145, 291-301.	2.1	29
101	New discrete metallocycles incorporating palladium(ii) and platinum(ii) corners and dipyridyldibenzotetraaza[14]annulene side units. Dalton Transactions, 2006, , 744-750.	3.3	29
102	13C-NMR Studies of Transmembrane Electron Transfer to Extracellular Ferricyanide in Human Erythrocytes. FEBS Journal, 1997, 246, 638-645.	0.2	28
103	Solution structure of a defensin-like peptide from platypus venom. Biochemical Journal, 1999, 341, 785.	3.7	28
104	Measurement of compartment size inq-space experiments: Fourier transform of the second derivative. Magnetic Resonance in Medicine, 2004, 52, 907-912.	3.0	28
105	Expression patterns of platypus defensin and related venom genes across a range of tissue types reveal the possibility of broader functions for OvDLPs than previously suspected. Toxicon, 2008, 52, 559-565.	1.6	28
106	Prochiral and Chiral Resolution in 2H NMR Spectra: Solutes in Stretched and Compressed Gelatin Gels. Journal of Physical Chemistry A, 2008, 112, 8659-8664.	2.5	28
107	Mean residence time of molecules diffusing in a cell bounded by a semi-permeable membrane: Monte Carlo simulations and an expression relating membrane transition probability to permeability. European Biophysics Journal, 2000, 29, 221-227.	2.2	27
108	Determination of NADH-dependent glutamate synthase (GOGAT) in Spodoptera frugiperda (Sf9) insect cells by a selective 1H/15N NMR in vitro assay. Journal of Biotechnology, 2000, 79, 87-97.	3.8	27

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109	Convection-compensating diffusion experiments with phase-sensitive double-quantum filtering. Journal of Magnetic Resonance, 2005, 174, 229-236.	2.1	26
110	Plasma Membrane Oxidoreductases: Effects on Erythrocyte Metabolism and Redox Homeostasis. Antioxidants and Redox Signaling, 2006, 8, 1241-1247.	5.4	26
111	Assembly of the oncogenic DNAâ€binding complex LMO2â€Ldb1â€TAL1â€E12. Proteins: Structure, Function and Bioinformatics, 2008, 70, 1461-1474.	2.6	26
112	Conformations of platypus venom C-type natriuretic peptide in aqueous solution and sodium dodecyl sulfate micelles. Toxicon, 2002, 40, 711-719.	1.6	25
113	Diffusion coefficients of the monomer and oligomers in hydroxyethyl methacrylate. Journal of Polymer Science Part A, 2003, 41, 2491-2501.	2.3	25
114	Mechanism of Mg2+ Binding in the Na+,K+-ATPase. Biophysical Journal, 2009, 96, 3753-3761.	0.5	25
115	Glyoxalase 2 deficiency in the erythrocytes of a horse: 1H NMR studies of enzyme kinetics and transport of S-lactoylglutathione. Archives of Biochemistry and Biophysics, 1991, 291, 291-299.	3.0	24
116	Transmembrane Exchange of Hyperpolarized 13C-Urea in Human Erythrocytes: Subminute Timescale Kinetic Analysis. Biophysical Journal, 2013, 105, 1956-1966.	0.5	24
117	Cucurbit[5]uril–metal complex-induced room-temperature phosphorescence of α-naphthol and β-naphthol. Dalton Transactions, 2013, 42, 2608-2615.	3.3	24
118	Studies of Rat Brain Metabolism Using Proton Nuclear Magnetic Resonance: Spectral Assignments and Monitoring of Prolidase, Acetylcholinesterase, and Glutaminase. Journal of Neurochemistry, 1984, 43, 1561-1567.	3.9	23
119	Correlation of Viscosity and Conductance with23Na+NMRT1Measurements. Bulletin of the Chemical Society of Japan, 1990, 63, 2961-2965.	3.2	23
120	The phenomenon of separate intra- and extracellular resonances of difluorophosphate in31P and19F NMR spectra of erythrocytes. Magnetic Resonance in Medicine, 1991, 18, 193-198.	3.0	23
121	7Li and 23Na nuclear magnetic resonance studies of transport and diffusion in liposomes. Comparison of transport rate constants estimated using pulsed field gradient and magnetization-transfer procedures. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 2807.	1.7	23
122	Determination of the Bound Water Fraction in Cells and Protein Solutions Using17O–Water Multiple-Quantum Filtered Relaxation Analysis. Journal of Magnetic Resonance Series B, 1996, 111, 1-8.	1.6	23
123	Strong and weak binding of water to proteins studied by NMR triple-quantum filtered relaxation spectroscopy of 17O-water. Biophysical Chemistry, 1997, 67, 187-198.	2.8	23
124	Chemical shift and magnetic susceptibility contributions to the separation of intracellular and supernatant resonances in variable angle spinning NMR spectra of erythrocyte suspensions. Magnetic Resonance in Medicine, 2004, 51, 441-444.	3.0	23
125	Kinetics of In Vitro Digestion of Starches Monitored by Time-Resolved1H Nuclear Magnetic Resonance. Biomacromolecules, 2009, 10, 638-644.	5.4	23
126	Changes in Cellular and Plasma Membrane Phospholipid Composition after Lipopolysaccharide Stimulation of Human Neutrophils, Studied by 31P NMR. FEBS Journal, 1997, 243, 328-335.	0.2	22

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127	Simulations of Molecular Diffusion in Lattices of Cells: Insights for NMR of Red Blood Cells. Biophysical Journal, 2002, 83, 161-171.	0.5	22
128	Antifungal Effects on Metabolite Profiles of Medically Important Yeast Species Measured by Nuclear Magnetic Resonance Spectroscopy. Antimicrobial Agents and Chemotherapy, 2006, 50, 4018-4026.	3.2	22
129	Erythrocyteâ€shape evolution recorded with fastâ€measurement NMR diffusion–diffraction. Journal of Magnetic Resonance Imaging, 2008, 28, 1409-1416.	3.4	22
130	Stereospecificity of Substrate Usage by Glyoxalase 1: Nuclear Magnetic Resonance Studies of Kinetics and Hemithioacetal Substrate Conformation. Biochemistry, 1994, 33, 3548-3559.	2.5	21
131	Investigation of methaemoglobin reduction by extracellular NADH in mammalian erythrocytes. International Journal of Biochemistry and Cell Biology, 2005, 37, 1438-1445.	2.8	21
132	Further investigation of the use of dimethyl methylphosphonate as a 31P-NMR probe of red cell volume. Biochimica Et Biophysica Acta - Molecular Cell Research, 1988, 968, 160-166.	4.1	20
133	2H2O quadrupolar splitting used to measure water exchange in erythrocytes. Journal of Magnetic Resonance, 2008, 192, 48-59.	2.1	20
134	Receptor Expression Modulates Calcium-Sensing Receptor Mediated Intracellular Ca <sup>2+</sup> Mobilization. Endocrinology, 2015, 156, 1330-1342.	2.8	20
135	Characterization of the transport of the nonelectrolyte dimethyl methylphosphonate across the red cell membrane. NMR in Biomedicine, 1989, 1, 198-204.	2.8	19
136	Microviscosity of human erythrocytes studied with hypophosphite and 31P-NMR. Biophysical Chemistry, 1989, 33, 205-215.	2.8	19
137	Nmr studies of diffusional water permeability of erythrocytes from eight species of marsupial. Comparative Biochemistry and Physiology A, Comparative Physiology, 1993, 106, 515-518.	0.6	19
138	Human erythrocyte flickering: temperature, ATP concentration, water transport, and cell aging, plus a computer simulation. European Biophysics Journal, 2009, 38, 923-939.	2.2	19
139	Erythrocyte shape reversion from echinocytes to discocytes: Kinetics via fastâ€measurement NMR diffusionâ€diffraction. Magnetic Resonance in Medicine, 2010, 64, 645-652.	3.0	19
140	Simultaneous estimation of T1 and the flip angle in hyperpolarized NMR experiments using acquisition at non-regular time intervals. Journal of Magnetic Resonance, 2012, 222, 68-73.	2.1	19
141	The relationship between glucose concentration and rate of lactate production by human erythrocytes in an open perfusion system. Biochimica Et Biophysica Acta - Molecular Cell Research, 1984, 805, 191-203.	4.1	18
142	19F NMR magnetization transfer between 5-FBAPTA and its complexes. An alternative means for measuring free Ca2+ concentration, and detection of complexes with protein in erythrocytes. NMR in Biomedicine, 1994, 7, 330-338.	2.8	18
143	Structure of the pore-helix of the hERG K+ channel. European Biophysics Journal, 2009, 39, 111-120.	2.2	18
144	Fermentative glycolysis with purified Escherichia coli enzymes for in vitro ATP production and evaluating an engineered enzyme. Journal of Biotechnology, 2012, 157, 113-123.	3.8	18

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145	Cardiac function and lipid distribution in rats fed a high-fat diet: in vivo magnetic resonance imaging and spectroscopy. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 304, H1495-H1504.	3.2	18
146	A 35Cl and 37Cl NMR study of chloride binding to the erythrocyte anion transport protein. Biophysical Chemistry, 1991, 40, 329-337.	2.8	17
147	A way of visualizing NMR experiments on quadrupolar nuclei. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2005, 25A, 40-52.	0.5	17
148	Double quantum transition as the origin of the central dip in the z-spectrum of HDO in variably stretched gel. Journal of Magnetic Resonance, 2009, 198, 197-203.	2.1	17
149	Mammalian Peptide Isomerase: Platypusâ€īype Activity Is Present in Mouse Heart. Chemistry and Biodiversity, 2010, 7, 1603-1611.	2.1	17
150	Relaxation times of spin states of all ranks and orders of quadrupolar nuclei estimated from NMR z-spectra: Markov chain Monte Carlo analysis applied to 7Li+ and 23Na+ in stretched hydrogels. Journal of Magnetic Resonance, 2011, 212, 40-46.	2.1	17
151	Starch granule characterization by kinetic analysis of their stages during enzymic hydrolysis: 1H nuclear magnetic resonance studies. Carbohydrate Polymers, 2011, 83, 1775-1786.	10.2	17
152	Cardiac magnetic resonance imaging of rapid VCAM-1 up-regulation in myocardial ischemia–reperfusion injury. European Biophysics Journal, 2013, 42, 61-70.	2.2	17
153	Red cell volume changes monitored using a new 31P NMR procedure. Journal of Magnetic Resonance, 1985, 62, 568-572.	0.5	16
154	The assimilation of tri- and tetrapeptides by human erythrocytes. Biochimica Et Biophysica Acta - Molecular Cell Research, 1985, 846, 127-134.	4.1	16
155	NMR studies of erythrocytes immobilized in agarose and alginate gels. Magnetic Resonance in Medicine, 1992, 25, 273-288.	3.0	16
156	NMR structure of bucandin, a neurotoxin from the venom of the Malayan krait (Bungarus candidus). Biochemical Journal, 2001, 360, 539.	3.7	16
157	Determination of Na+ binding parameters by relaxation analysis of selected23Na NMR coherences: RNA, BSA and SDS. Magnetic Resonance in Chemistry, 2005, 43, 217-224.	1.9	16
158	NMR studies of exchange between intra- and extracellular glutathione in human erythrocytes. Redox Report, 2005, 10, 83-90.	4.5	16
159	Mathematical Modeling and Data Analysis of Nmr Experiments Using Hyperpolarized 13C Metabolites. Magnetic Resonance Insights, 2013, 6, MRI.S11084.	2.5	16
160	Bicarbonate exchange kinetics at equilibrium across the erythrocyte membrane by 13C NMR. Biochemical and Biophysical Research Communications, 1986, 136, 266-272.	2.1	15
161	Mutarotase equilibrium exchange kinetics studied by 13C-NMR. Biophysical Chemistry, 1988, 32, 89-95.	2.8	15
162	Stimulation of human erythrocyte 2,3-bisphosphoglycerate phosphatase by vanadate. Archives of Biochemistry and Biophysics, 1990, 276, 160-171.	3.0	15

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163	Multiple-quantum filtered 17O and 23Na NMR analysis of mitochondrial suspensions. Biophysical Chemistry, 1998, 73, 137-143.	2.8	15
164	Parallel Secretion of Pancreatic Phospholipase A2, Phospholipase A1, Lipase, and Colipase in Children with Exocrine Pancreatic Dysfunction. Pediatric Research, 2000, 48, 735-740.	2.3	15
165	Enhancement of Na+Diffusion in a Bicontinuous Cubic Phase by the Ionophore Monensin. Langmuir, 2004, 20, 2660-2666.	3.5	15
166	z-Spectra of 23Na+ in stretched gels: Quantitative multiple quantum analysis. Journal of Magnetic Resonance, 2010, 205, 260-268.	2.1	15
167	Proton Nuclear Magnetic Resonance Spectroscopy of Rabbit Brain Homogenate. Journal of Neurochemistry, 1984, 42, 878-879.	3.9	14
168	1H NMR spectroscopic survey of plasma and erythrocytes from selected marsupials and domestic animals of Australia. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1991, 99, 575-597.	0.2	14
169	Free magnesium-ion concentration in erythrocytes by31P NMR: the effect of metabolite–haemoglobin interactions. , 1997, 10, 129-137.		14
170	Simulations of NMR-detected diffusion in suspensions of red cells: the "signatures" in q-space plots of various lattice arrangements. European Biophysics Journal, 2003, 31, 563-574.	2.2	14
171	Platypus venom: source of novel compounds. Australian Journal of Zoology, 2009, 57, 203.	1.0	14
172	1H and 13C NMR studies of glycine in anisotropic media: Double-quantum transitions and the effects of chiral interactions. Journal of Magnetic Resonance, 2011, 211, 74-79.	2.1	14
173	Stoichiometric Relationship between Na+ Ions Transported and Glucose Consumed in Human Erythrocytes: Bayesian Analysis of 23Na and 13C NMR Time Course Data. Biophysical Journal, 2013, 104, 1676-1684.	0.5	14
174	Proton NMR spectroscopy of rabbit renal cortex. Kidney International, 1985, 28, 6-10.	5.2	13
175	Glycerophosphocholine release in human erythrocytes. 1H spin-echo and 31P-NMR evidence for lysophospholipse. FEBS Journal, 1993, 212, 411-416.	0.2	13
176	Nobel Prizes for magnetic resonance imaging and channel proteins. Medical Journal of Australia, 2003, 179, 611-613.	1.7	13
177	"Setting paint―analogy for the hydrophobic selfâ€association of tropoelastin into elastinâ€like hydrogel. Biopolymers, 2009, 91, 321-330.	2.4	13
178	Determination of the Stability Constants of Mn2+ and Mg2+ Complexes of the Components of the NADP-Linked Isocitrate Dehydrogenase Reaction by Electron Spin Resonance. FEBS Journal, 1980, 110, 465-473.	0.2	12
179	A simple and inexpensive method for preparing erythrocyte membranes by filtration through a hollow-fiber system. Analytical Biochemistry, 1989, 179, 190-193.	2.4	12
180	β-Amino acid isomers of a natural substrate of the enzyme γ-glutamyl-amino acid cyclotransferase. Synthesis of (3S)-3-aminoglutaryl-(S)-alanine and (3R)-3-aminoglutaryl-(S)-alanine. Journal of the Chemical Society Perkin Transactions 1, 1990, , 2363-2369.	0.9	12

#	Article	IF	CITATIONS
181	NMR triple-quantum filtered relaxation analysis of 170-water in insulin solutions: an insight into the aggregation of insulin and the properties of its bound water. Biophysical Chemistry, 1998, 70, 231-239.	2.8	12
182	Simulations of NMR-detected diffusion in suspensions of red cells: the effects of variation in membrane permeability and observation time. European Biophysics Journal, 2003, 32, 671-675.	2.2	12
183	Selective cross-polarization in solution state nuclear magnetic resonance of scalar coupled spin 12 and quadrupolar nuclei. Journal of Chemical Physics, 2003, 118, 6997-7004.	3.0	12
184	Current status and challenges in connecting models of erythrocyte metabolism to experimental reality. Progress in Biophysics and Molecular Biology, 2004, 85, 325-342.	2.9	12
185	Effectors of the frequency of calcium oscillations in HEK-293 cells: wavelet analysis and a computer model. European Biophysics Journal, 2009, 39, 149-165.	2.2	12
186	Cytoskeletal rearrangements in human red blood cells induced by snake venoms: light microscopy of shapes and NMR studies of membrane function. Cell Biology International, 2012, 36, 87-97.	3.0	12
187	Membrane flickering of the human erythrocyte: physical and chemical effectors. European Biophysics Journal, 2014, 43, 169-177.	2.2	12
188	NMR of 133 Cs + in stretched hydrogels: One-dimensional, z - and NOESY spectra, and probing the ion's environment in erythrocytes. Journal of Magnetic Resonance, 2015, 261, 110-120.	2.1	12
189	The S1 helix critically regulates the finely tuned gating of Kv11.1 channels. Journal of Biological Chemistry, 2017, 292, 7688-7705.	3.4	12
190	Transmembrane Exchange of Fluorosugars: Characterization of Red Cell GLUT1 Kinetics UsingÂ19F NMR. Biophysical Journal, 2018, 115, 1906-1919.	0.5	12
191	Erythrocyte glycolysis: Stimulation by nalidixic acid. Biochemical Medicine, 1982, 27, 95-108.	0.5	11
192	Urea exchange across the human erythrocyte membrane measured using 13C NMR lineshape analysis. European Biophysics Journal, 1992, 21, 207-16.	2.2	11
193	Theoretical and Practical Aspects of NMR Studies of Cells. ImmunoMethods, 1994, 4, 85-97.	0.8	11
194	Spin–Lattice Relaxation Times of H2and D2in Aqueous Solutions. Journal of Magnetic Resonance Series A, 1996, 119, 1-5.	1.6	11
195	Acquisition of pure-phase diffusion spectra using oscillating-gradient spin echo. Journal of Magnetic Resonance, 2005, 176, 151-159.	2.1	11
196	L-to-D-peptide isomerase in male echidna venom. Australian Journal of Zoology, 2010, 58, 284.	1.0	11
197	Skeletal muscle lipid metabolism studied by advanced magnetic resonance spectroscopy. Progress in Nuclear Magnetic Resonance Spectroscopy, 2012, 65, 66-76.	7.5	11
198	The interaction of sterically stabilized magnetic nanoparticles with fresh human red blood cells. International Journal of Nanomedicine, 2015, 10, 6645.	6.7	11

#	Article	IF	CITATIONS
199	Enhanced Ca2+ influx in mechanically distorted erythrocytes measured with 19F nuclear magnetic resonance spectroscopy. Scientific Reports, 2021, 11, 3749.	3.3	11
200	Hypophosphite transport in human erythrocytes studied by overdetermined one-dimensional NMR exchange analysis. NMR in Biomedicine, 1990, 3, 59-63.	2.8	10
201	Immobilization Methods for NMR Studies of Cellular Metabolism - A Practical Guide. ImmunoMethods, 1994, 4, 163-178.	0.8	10
202	Relative intensities of components of quadrupolarâ€split multiplets in NMR spectra: Rationale for a simple rule. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2012, 40A, 90-99.	0.5	10
203	â€~Chiral compartmentation' in metabolism: Enzyme stereoâ€specificity yielding evolutionary options. FEBS Letters, 2013, 587, 2790-2797.	2.8	10
204	Insights into hERG K+ channel structure and function from NMR studies. European Biophysics Journal, 2013, 42, 71-79.	2.2	10
205	Hyperpolarized [1, <sup>13</sup> C]pyruvate in lysed human erythrocytes: effects of coâ€substrate supply on reaction time courses. NMR in Biomedicine, 2014, 27, 1203-1210.	2.8	10
206	Anisotropic diffusion in stretched hydrogels containing erythrocytes: evidence of cellâ€shape distortion recorded by PGSE NMR spectroscopy. Magnetic Resonance in Chemistry, 2017, 55, 438-446.	1.9	10
207	Na + and solute diffusion in aqueous channels of Myverol bicontinuous cubic phase: PGSE NMR and computer modelling. Magnetic Resonance in Chemistry, 2017, 55, 464-471.	1.9	10
208	Bile salt stimulated lipase: Inhibition by phospholipids and relief by phospholipase A2. Journal of Cystic Fibrosis, 2017, 16, 763-770.	0.7	10
209	Insights into Gene Therapy for Urea Cycle Defects by Mathematical Modeling. Human Gene Therapy, 2019, 30, 1385-1394.	2.7	10
210	NMR Methods for Measuring Membrane Transport. Sub-Cellular Biochemistry, 1994, 23, 247-327.	2.4	10
211	PCSE NMR diffusion study of the self-association ofN-methylacetamide in carbon tetrachloride. Magnetic Resonance in Chemistry, 2002, 40, S115-S121.	1.9	9
212	Scalar couplings as pH probes in compartmentalized biological systems:31P NMR of phosphite. Magnetic Resonance in Medicine, 2003, 50, 693-696.	3.0	9
213	Rapid Exchange of Fluoroethylamine via the Rhesus Complex in Human Erythrocytes:  19F NMR Magnetization Transfer Analysis Showing Competition by Ammonia and Ammonia Analogues. Biochemistry, 2006, 45, 9354-9361.	2.5	9
214	pH and Cell Volume Effects on H2O and Phosphoryl Resonance Splitting in Rapid-Spinning NMR of Red Cells. Biophysical Journal, 2007, 92, 1770-1776.	0.5	9
215	Comparative NMR studies of diffusional water permeability of red blood cells from different species. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 154, 105-109.	1.8	9
216	Erythrocyte orientational and cell volume effects on NMR q-space analysis: simulations of restricted diffusion. European Biophysics Journal, 2009, 39, 139-148.	2.2	9

#	Article	IF	CITATIONS
217	NMR magnetization-transfer analysis of rapid membrane transport in human erythrocytes. Biophysical Reviews, 2016, 8, 369-384.	3.2	9
218	Physicochemical and kinetic properties of beef liver argininosuccinase. Biochimica Et Biophysica Acta - Biomembranes, 1975, 397, 478-488.	2.6	8
219	Enkephalin degradation by human erythrocytes and hemolysates studied using 1H NMR spectroscopy. Archives of Biochemistry and Biophysics, 1985, 242, 515-522.	3.0	8
220	Equilibrium exchange of dimethyl methylphosphonate across the human red cell membrane measured using NMR spin transfer. Journal of Magnetic Resonance, 1986, 68, 311-318.	0.5	8
221	Interactions of Na+ with haemoglobin-organic phosphate complexes. Biophysical Chemistry, 1988, 30, 81-92.	2.8	8
222	Restricted diffusion of bicarbonate and hypophosphite ions modulated by transport in suspensions of red blood cells. Journal of Magnetic Resonance, 1990, 90, 100-110.	0.5	8
223	Translational diffusion of hemoglobin in human erythrocytes and hemolysates. Journal of Magnetic Resonance, 1991, 94, 574-580.	0.5	8
224	NMR Studies of Diffusion-Coherence Phenomena in Red Cell Suspensions: Current Status. Israel Journal of Chemistry, 2003, 43, 45-54.	2.3	8
225	Isotopomer subspaces as indicators of metabolic-pathway structure. Journal of Theoretical Biology, 2008, 252, 391-401.	1.7	8
226	Subâ€minute kinetics of human red cell fumarase: <sup>1</sup> H spinâ€echo NMR spectroscopy and <sup>13</sup> C rapidâ€dissolution dynamic nuclear polarization. NMR in Biomedicine, 2018, 31, e3870.	2.8	8
227	Glyoxalase activity in human erythrocytes and mouse lymphoma, liver and brain probed with hyperpolarized 13C-methylglyoxal. Communications Biology, 2018, 1, 232.	4.4	8
228	Rates of anion transfer across erythrocyte membranes measured with NMR spectroscopy. Progress in Cell Research, 1992, , 105-119.	0.3	8
229	gamma-Glutamylcyclotransferase: inhibition by d-beta-aminoglutaryl-l-alanine and analysis of the solvent kinetic isotope effect. FEBS Journal, 1989, 184, 97-101.	0.2	7
230	Transmembrane19F NMR chemical shift difference of fluorinated solutes in liposomes, erythrocytes and erythrocyte ghosts. NMR in Biomedicine, 1993, 6, 136-143.	2.8	7
231	Stability and nonreactivity of ergothioneine in human erythrocytes studied by1H NMR. Magnetic Resonance in Medicine, 1993, 29, 826-829.	3.0	7
232	Characterisation of erythrocyte transmembrane exchange of trifluoroacetate using 19F-NMR: evidence for transport via the monocarboxylate transporter. Biochimica Et Biophysica Acta - Biomembranes, 1993, 1150, 35-44.	2.6	7
233	A31P nuclear magnetic resonance investigation of acyl group transfer from phosphatidylcholine to yield lysophosphatidylcholine in human plasma. Lipids, 1994, 29, 183-188.	1.7	7
234	NMR Studies of Erythrocyte Metabolism. Advances in Molecular and Cell Biology, 1995, 11, 147-205.	0.1	7

#	Article	IF	CITATIONS
235	Mobility of water in biological systems studied by170 NMR via multiple-quantum filtered relaxation analysis. Magnetic Resonance in Chemistry, 1997, 35, S47-S51.	1.9	7
236	Phospholipid changes in children with pancreatic sufficiency and insufficiency. Clinica Chimica Acta, 1999, 281, 89-100.	1.1	7
237	13C NMR evidence of the failure of human erythrocytes to metabolize ascorbate and dehydroascorbate to lactate. Free Radical Biology and Medicine, 2000, 28, 1607-1610.	2.9	7
238	Inhomogeneous NMR Line Shape as a Probe of Microscopic Organization of Bicontinuous Cubic Phases. Journal of Physical Chemistry B, 2008, 112, 6636-6645.	2.6	7
239	Comparative NMR studies of diffusional water permeability of red blood cells from different species: XVI Dingo (Canis familiaris dingo) and dog (Canis familiaris). Cell Biology International, 2010, 34, 373-378.	3.0	7
240	Kinetics of starch hydrolysis and glucose mutarotation studied by NMR chemical exchange saturation transfer (CEST). Carbohydrate Polymers, 2011, 86, 1525-1532.	10.2	7
241	Dependence of residual dipolar couplings on foot angle in 1H MR spectra from skeletal muscle. Magnetic Resonance Imaging, 2014, 32, 379-384.	1.8	7
242	Average Lengths of Chords in a Square. Mathematics Magazine, 1981, 54, 261-269.	0.1	6
243	Magnetic potential and field gradients of a model cell. Journal of Theoretical Biology, 1989, 137, 55-69.	1.7	6
244	Band-3 mediated uptake of beryllofluoride complexes by human erythrocytes. Biochemistry, 1992, 31, 9263-9268.	2.5	6
245	Diffusion of Solvent in Swollen Latex Particles. Journal of Colloid and Interface Science, 1994, 166, 437-443.	9.4	6
246	Using the $\hat{l}^2/\hat{l}_{\pm}$ peak-height ratio of ATP in 31P NMR spectra to measure free [Mg2+]: theoretical and practical problems. , 1999, 12, 217-220.		6
247	Metabolic homeostasis in the human erythrocyte: In silico analysis. BioSystems, 2006, 83, 118-124.	2.0	6
248	Comparative NMR studies of diffusional water permeability of red blood cells from different species: XVIII platypus (Ornithorhynchus anatinus)and saltwater crocodile (Crocodylus porosus). Cell Biology International, 2010, 34, 703-708.	3.0	6
249	<sup>7</sup> Li <sup>+</sup> NMR quadrupolar splitting in stretched hydrogels: developments in relaxation time estimation from <i>z</i> â€spectra. Magnetic Resonance in Chemistry, 2012, 50, S17-21.	1.9	6
250	NMR q-space analysis of canonical shapes of human erythrocytes: stomatocytes, discocytes, spherocytes and echinocytes. European Biophysics Journal, 2013, 42, 3-16.	2.2	6
251	Matrix-dependent modulation of anisotropic effects on NMR spectra from 7Li+ and 23Na+ encapsulated in cryptands. European Biophysics Journal, 2013, 42, 17-23.	2.2	6
252	Membrane flickering of the human erythrocyte: constrained random walk used with Bayesian analysis. European Biophysics Journal, 2014, 43, 157-167.	2.2	6

#	Article	IF	CITATIONS
253	<i>FmR<sub>α</sub></i> analysis: Rapid and direct estimation of relaxation and kinetic parameters from dynamic nuclear polarization time courses. Magnetic Resonance in Medicine, 2015, 73, 2075-2080.	3.0	6
254	1H NMR z-spectra of acetate methyl in stretched hydrogels: Quantum–mechanical description and Markov chain Monte Carlo relaxation-parameter estimation. Journal of Magnetic Resonance, 2015, 250, 29-36.	2.1	6
255	Effect of red blood cell shape changes on haemoglobin interactions and dynamics: a neutron scattering study. Royal Society Open Science, 2020, 7, 201507.	2.4	6
256	Cholesterol effects on nonelectrolyte membrane transport in human erythrocytes: NMR magnetization transfer studies. Magnetic Resonance in Medicine, 1994, 32, 505-510.	3.0	5
257	NMR studies of diffusional water permeability of red blood cells from the echidna Tachyglossus aculeatus. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1994, 107, 45-50.	0.2	5
258	1 H NMR of compounds with low water solubility in the presence of erythrocytes: effects of emulsion phase separation. European Biophysics Journal, 2001, 30, 69-74.	2.2	5
259	Mathematical Models of Naturally "Morphed―Human Erythrocytes: Stomatocytes and Echinocytes. Bulletin of Mathematical Biology, 2010, 72, 1323-1333.	1.9	5
260	Models of the human metabolic network: aiming to reconcile metabolomics and genomics. Genome Medicine, 2010, 2, 46.	8.2	5
261	Long-lived spin state of a tripeptide in stretched hydrogel. Journal of Biomolecular NMR, 2014, 59, 31-41.	2.8	5
262	The NMR â€~split peak effect' in cell suspensions: Historical perspective, explanation and applications. Progress in Nuclear Magnetic Resonance Spectroscopy, 2018, 104, 1-11.	7.5	5
263	Fructose 3-phosphate and 5-phosphoribosyl-1-pyrophosphate formation in perhsed human erythrocytes:31P NMR studies. Magnetic Resonance in Medicine, 1994, 31, 110-121.	3.0	4
264	13C NMR investigation of cholesterol esterification rate in human whole blood. Clinica Chimica Acta, 1995, 237, 25-30.	1.1	4
265	Changes in Plasma Phospholipids in the Presence and Absence of Erythrocytes. 31P-NMR Time-Course Studies. FEBS Journal, 1996, 235, 648-652.	0.2	4
266	Solution-state cross-polarization for selective excitation of scalar-coupled quadrupolar nuclei S>1/2 in the presence of a residual quadrupolar splitting. Chemical Physics Letters, 2003, 376, 732-736.	2.6	4
267	91.69 Can you â€~bend' a truncated octahedron?. Mathematical Gazette, 2007, 91, 533-536.	0.0	4
268	NMR resonance splitting of urea in stretched hydrogels: Proton exchange and 1 H/ 2 H isotopologues. Journal of Magnetic Resonance, 2014, 247, 72-80.	2.1	4
269	Morphology and water permeability of red blood cells from green sea turtle (Chelonia mydas). Protoplasma, 2015, 252, 1181-1185.	2.1	4
270	NMR Spectra of Glycine Isotopomers in Anisotropic Media: Subtle Chiral Interactions. Analytical Chemistry, 2015, 87, 10437-10442.	6.5	4

#	Article	IF	CITATIONS
271	Rapid zero-trans kinetics of Cs+ exchange in human erythrocytes quantified by dissolution hyperpolarized 133Cs+ NMR spectroscopy. Scientific Reports, 2019, 9, 19726.	3.3	4
272	Surface model of the human red blood cell simulating changes in membrane curvature under strain. Scientific Reports, 2021, 11, 13712.	3.3	4
273	Determination of erythrocyte glucose 1,6-bisphosphate — a comparison of two methods using a centrifugal analyzer. Clinica Chimica Acta, 1987, 164, 181-187.	1.1	3
274	No evidence for bradykinin hydrolysis in human erythrocyte suspensions: H NMR studies. American Journal of Hematology, 1987, 25, 183-189.	4.1	3
275	39K nuclear magnetic resonance and a mathematical model of K+ transport in human erythrocytes. European Biophysics Journal, 2006, 35, 293-301.	2.2	3
276	Water chemical shift in1H NMR of red cells: Effects of pH when transmembrane magnetic susceptibility differences are low. Magnetic Resonance in Medicine, 2008, 59, 707-711.	3.0	3
277	Magnetic-Resonance Evaluation of the Suitability of Microstructured Polymer Optical Fibers As Sensors for Ionic Aqueous Solutions. ACS Applied Materials & Interfaces, 2009, 1, 197-203.	8.0	3
278	<sup>1</sup> H NMR spectroscopy for the <i>in vitro</i> understanding of the glycaemic index. British Journal of Nutrition, 2013, 109, 1934-1939.	2.3	3
279	Structure and antimicrobial activity of platypus â€~intermediate' defensinâ€like peptide. FEBS Letters, 2014, 588, 1821-1826.	2.8	3
280	Combined NMR Experimental and Computer-Simulation Study of 2,3-Bisphosphoglycerate Metabolism in Human Erythrocytes. , 2000, , 139-145.		3
281	Anomerisation of Fluorinated Sugars by Mutarotase Studied Using 19F NMR Two-Dimensional Exchange Spectroscopy. Australian Journal of Chemistry, 2020, 73, 117.	0.9	3
282	Bi-cyclide and flat-ring cyclide coordinate surfaces: correction of two expressions. Mathematics of Computation, 1987, 49, 607-607.	2.1	3
283	Average Lengths of Chords in a Square. Mathematics Magazine, 1981, 54, 261.	0.1	3
284	Expressions for surfaces in disk-cyclide coordinates : derivations using symbolic computation. Journal of the Franklin Institute, 1988, 325, 505-508.	3.4	2
285	1H nuclear magnetic resonance assay of erythrocyte triosephosphate isomerase. Analytical Biochemistry, 1991, 197, 178-181.	2.4	2
286	Lysine and glutamate transport in the erythrocytes of Common Brushtail Possum, Tammar Wallaby and Eastern Grey Kangaroo. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 1998, 119, 951-956.	1.8	2
287	Detection of platypus-type l/d-peptide isomerase activity in aqueous extracts of papaya fruit. Biotechnology Letters, 2012, 34, 1659-1665.	2.2	2
288	96.45 Can you †bend' a truncated truncated tetrahedron?. Mathematical Gazette, 2012, 96, 317-323.	0.0	2

#	Article	IF	CITATIONS
289	Extended Bloch–McConnell equations for mechanistic analysis of hyperpolarized <sup>13</sup> C magnetic resonance experiments on enzyme systems. Magnetic Resonance, 2021, 2, 421-446.	1.9	2
290	92.81 10 <i>n</i> <sup>2</sup> +2 revealed. Mathematical Gazette, 2008, 92, 546-551.	0.0	1
291	Slow relaxation of longitudinal multispin orders in weakly and strongly coupled twoâ€spin systems. Magnetic Resonance in Chemistry, 2012, 50, 443-448.	1.9	1
292	Dissolution dynamic nuclear polarization NMR studies of enzyme kinetics: Setting up differential equations for fitting to spectral time courses. Journal of Magnetic Resonance Open, 2019, 1, 100001.	1.1	1
293	Identification of beryllium fluoride complexes in mechanically distorted gels using quadrupolar split 9Be NMR spectra resolved with solution-state selective cross-polarization. Physical Chemistry Chemical Physics, 2021, 23, 16932-16941.	2.8	1
294	What Are the Relative Intensities of the Components of NMR Spectral Multiplets from Quadrupolar Nuclei in Uniformly Anisotropic Media?. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2021, 2021, 1-25.	0.5	1
295	Cells in Gels: NMR Studies. New Developments in NMR, 2020, , 228-253.	0.1	1
296	78.15 Is There Light at the End of the Funnel?. Mathematical Gazette, 1994, 78, 336.	0.0	0
297	Device for aeration and mixing of cell and organelle suspensions during NMR experiments. Journal of Magnetic Resonance, 2002, 159, 158-160.	2.1	0
298	Proteins, membranes and cells: the structure–function nexus—ASB 2008. European Biophysics Journal, 2009, 39, 1-1.	2.2	0
299	Numerical Simulations of Red-Blood Cells in Fluid Flow: A Discrete Multiphysics Study. ChemEngineering, 2021, 5, 33.	2.4	0
300	Review of Mutarotase in â€~Metabolic Subculture' and Analytical Biochemistry: Prelude to 19F NMR Studies of its Substrate Specificity and Mechanism. Australian Journal of Chemistry, 2020, 73, 112.	0.9	0