

Philip W Kuchel

List of Publications by Year in descending order

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300
papers

8,731
citations

47004

47
h-index

79691

73
g-index

306
all docs

306
docs citations

306
times ranked

7583
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	10.2	296
2	Human erythrocyte metabolism studies by 1 H spin echo NMR. <i>FEBS Letters</i> , 1977, 82, 12-16.	2.8	277
3	NMR diffusion measurements to characterise membrane transport and solute binding. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1997, 30, 39-68.	7.5	230
4	Imaging Brain Deoxyglucose Uptake and Metabolism by Glucocest MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1270-1278.	4.3	150
5	Defensins and the convergent evolution of platypus and reptile venom genes. <i>Genome Research</i> , 2008, 18, 986-994.	5.5	137
6	NMR α -diffraction of water revealing alignment of erythrocytes in a magnetic field and their dimensions and membrane transport characteristics. <i>Magnetic Resonance in Medicine</i> , 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. <i>Biochemical Journal</i> , 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 α -Go-Go-Related Gene Channels. <i>Molecular Pharmacology</i> , 2008, 74, 1443-1452.	2.3	124
9	Hepcidin, the hormone of iron metabolism, is bound specifically to β -2-macroglobulin in blood. <i>Blood</i> , 2009, 113, 6225-6236.	1.4	111
10	The Gárdos channel: a review of the Ca ²⁺ -activated K ⁺ channel in human erythrocytes. <i>International Journal of Biochemistry and Cell Biology</i> , 2003, 35, 1182-1197.	2.8	103
11	Proton Nuclear Magnetic Resonance-Based Metabonomics for Rapid Diagnosis of Meningitis and Ventriculitis. <i>Clinical Infectious Diseases</i> , 2005, 41, 1582-1590.	5.8	103
12	The β -defensin-fold family of polypeptides. <i>Toxicon</i> , 2004, 44, 581-588.	1.6	98
13	AAV2/8-mediated Correction of OTC Deficiency Is Robust in Adult but Not Neonatal Spfash Mice. <i>Molecular Therapy</i> , 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 ¹³ C and ³¹ P NMR. <i>Biochemical Journal</i> , 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 ²³ Na and ¹³³ Cs spectra. <i>Journal of Magnetic Resonance</i> , 2006, 180, 256-265.	2.1	91
16	Reaction of cis- and trans-[PtCl ₂ (NH ₃) ₂] with reduced glutathione inside human red blood cells, studied by 1H and 15N-{1H} DEPT NMR. <i>Journal of Inorganic Biochemistry</i> , 1990, 38, 327-345.	3.5	90
17	Reaction of cis- and trans-[PtCl ₂ (NH ₃) ₂] with reduced glutathione studied by 1H, ¹³ C, ¹⁹⁵ Pt and 15N-{1H} DEPT NMR. <i>Journal of Inorganic Biochemistry</i> , 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. <i>Biochemical Journal</i> , 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. <i>Biochemical Journal</i> , 2000, 348, 649-656.	3.7	81
20	The N-terminal Tail of hERG Contains an Amphipathic α -Helix That Regulates Channel Deactivation. <i>PLoS ONE</i> , 2011, 6, e16191.	2.5	79
21	NMR Study of the Association of Propofol with Nonionic Surfactants. <i>Langmuir</i> , 2003, 19, 2088-2095.	3.5	76
22	D-Amino acid residue in the C-type natriuretic peptide from the venom of the mammal, <i>Ornithorhynchus anatinus</i> , the Australian platypus. <i>FEBS Letters</i> , 2002, 524, 172-176.	2.8	75
23	Glutathione Synthesis and Turnover in the Human Erythrocyte. <i>Journal of Biological Chemistry</i> , 2010, 285, 23557-23567.	3.4	75
24	Characterisation of erythrocyte shapes and sizes by NMR diffusion-diffraction of water: correlations with electron micrographs. <i>Magnetic Resonance Imaging</i> , 1998, 16, 423-434.	1.8	74
25	Novel venom gene discovery in the platypus. <i>Genome Biology</i> , 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. <i>FEBS Journal</i> , 1985, 150, 371-380.	0.2	71
27	Kinetic analysis of the human erythrocyte glyoxalase system using ^1H NMR and a computer model. <i>FEBS Journal</i> , 1990, 193, 83-90.	0.2	71
28	Pulsed field gradient nuclear magnetic resonance as a tool for studying drug delivery systems. <i>Concepts in Magnetic Resonance</i> , 2003, 19A, 51-64.	1.3	71
29	Mechanism of Action of P-Glycoprotein in Relation to Passive Membrane Permeation. <i>International Review of Cytology</i> , 1999, 190, 175-250.	6.2	70
30	Structure of the HERG K ⁺ Channel S5P Extracellular Linker. <i>Journal of Biological Chemistry</i> , 2003, 278, 42136-42148.	3.4	69
31	Kinetics of uptake and deacetylation of N-acetylcysteine by human erythrocytes. <i>International Journal of Biochemistry and Cell Biology</i> , 2007, 39, 1698-1706.	2.8	69
32	Role of N-acetylcysteine and cystine in glutathione synthesis in human erythrocytes. <i>Redox Report</i> , 2009, 14, 115-124.	4.5	69
33	^{13}C NMR Studies of Vitamin C Transport and Its Redox Cycling in Human Erythrocytes. <i>Biochemistry</i> , 1998, 37, 7578-7588.	2.5	66
34	Phospholipid composition of erythrocyte membranes and plasma of mammalian blood including australian marsupials; Quantitative ^{31}P NMR Analysis using detergent. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1996, 113, 221-227.	1.6	60
35	Identification of a Novel Family of Proteins in Snake Venoms. <i>Journal of Biological Chemistry</i> , 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. <i>Biochemical Journal</i> , 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 Î±-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 long-term storage of human red blood cells on the glutathione synthesis rate and steady-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 of 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	¹ H and ³¹ P 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 ³¹ P-NMR methylphosphonate procedure. Biochimica Et Biophysica Acta - Molecular Cell Research, 1986, 885, 23-33.	4.1	41
63	Heteronuclear NMR studies of metabolites produced by <i>Cryptococcus neoformans</i> 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 <i>spfash</i> 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 <i>Cryptococcus Neoformans</i> 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 NMR <i>q</i> -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	Quantitative ³¹ P 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. <i>Journal of Magnetic Resonance Series B</i> , 1996, 112, 1-17.	1.6	38
74	Stejskalâ€tanner equation derived in full. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2012, 40A, 205-214.	0.5	38
75	Mathematical modelling of the urea cycle. <i>FEBS Journal</i> , 2003, 270, 3953-3961.	0.2	37
76	Convection-compensating PGSE experiment incorporating excitation-sculpting water suppression (CONVEX). <i>Journal of Magnetic Resonance</i> , 2004, 169, 92-101.	2.1	37
77	Endogenous phospholipase and choline release in human erythrocytes: A study using ¹ H NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 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. <i>Journal of the American Chemical Society</i> , 1986, 108, 169-173.	13.7	36
79	Direct NMR evidence that prolidase is specific for the trans isomer of imidodipeptide substrates. <i>Biochemistry</i> , 1986, 25, 1054-1062.	2.5	36
80	Permeability Coefficients from NMR q-Space Data: Models with Unevenly Spaced Semi-permeable Parallel Membranes. <i>Journal of Magnetic Resonance</i> , 1999, 139, 258-272.	2.1	36
81	NMR studies of diffusional water permeability of red blood cells from macropodid marsupials (kangaroos and wallabies). <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1993, 104, 799-803.	0.6	35
82	Elevated glutamate dehydrogenase flux in glucose-deprived hybridoma and myeloma cells: Evidence from ¹ H/ ¹⁵ N 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. <i>Biochemical Journal</i> , 2000, 348, 649.	3.7	35
84	Why does the mammalian red blood cell have aquaporins?. <i>BioSystems</i> , 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. <i>Bioinformatics</i> , 2005, 21, 3558-3564.	4.1	35
86	NMR (Pro)chiral Discrimination Using Polysaccharide Gels. <i>Chemistry - A European Journal</i> , 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. <i>Biochemical Journal</i> , 1999, 342, 597.	3.7	35
88	Accelerating metabolism and transmembrane cation flux by distorting red blood cells. <i>Science Advances</i> , 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. <i>Inorganic Chemistry</i> , 2017, 56, 9860-9868.	4.0	34
90	Conformation of reduced glutathione in aqueous solution by ¹ H and ¹³ C n.m.r.. <i>International Journal of Peptide and Protein Research</i> , 1987, 29, 638-646.	0.1	33

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91	Nuclear Magnetic Resonance of Biological Samples. <i>Critical Reviews in Analytical Chemistry</i> , 1981, 12, 155-231.	3.5	33
92	Glucose transport in human erythrocytes measured using ^{13}C NMR spin transfer. <i>FEBS Letters</i> , 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. <i>Biochemistry</i> , 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. <i>FEBS Journal</i> , 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. <i>Clinica Chimica Acta</i> , 1980, 104, 77-85.	1.1	31
96	Inhibition and active-site modelling of prolidase. <i>FEBS Journal</i> , 1989, 180, 377-384.	0.2	31
97	NMR structure of bucandin, a neurotoxin from the venom of the Malayan krait (<i>Bungarus candidus</i>). <i>Biochemical Journal</i> , 2001, 360, 539-548.	3.7	31
98	Proton NMR spectroscopic studies of dipeptidase in human erythrocytes. <i>Biochemical and Biophysical Research Communications</i> , 1983, 110, 305-312.	2.1	29
99	Characterization of transmembrane chemical shift differences in the phosphorus- ^{31}P NMR spectra of various phosphoryl compounds added to erythrocyte suspensions. <i>Biochemistry</i> , 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. <i>Journal of Magnetic Resonance</i> , 2000, 145, 291-301.	2.1	29
101	New discrete metallocycles incorporating palladium(ii) and platinum(ii) corners and dipyrityldibenzotetraaza[14]annulene side units. <i>Dalton Transactions</i> , 2006, , 744-750.	3.3	29
102	^{13}C -NMR Studies of Transmembrane Electron Transfer to Extracellular Ferricyanide in Human Erythrocytes. <i>FEBS Journal</i> , 1997, 246, 638-645.	0.2	28
103	Solution structure of a defensin-like peptide from platypus venom. <i>Biochemical Journal</i> , 1999, 341, 785.	3.7	28
104	Measurement of compartment size in q-space experiments: Fourier transform of the second derivative. <i>Magnetic Resonance in Medicine</i> , 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. <i>Toxicon</i> , 2008, 52, 559-565.	1.6	28
106	Prochiral and Chiral Resolution in ^2H NMR Spectra: Solutes in Stretched and Compressed Gelatin Gels. <i>Journal of Physical Chemistry A</i> , 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. <i>European Biophysics Journal</i> , 2000, 29, 221-227.	2.2	27
108	Determination of NADH-dependent glutamate synthase (GOGAT) in <i>Spodoptera frugiperda</i> (Sf9) insect cells by a selective $^1\text{H}/^{15}\text{N}$ NMR in vitro assay. <i>Journal of Biotechnology</i> , 2000, 79, 87-97.	3.8	27

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109	Convection-compensating diffusion experiments with phase-sensitive double-quantum filtering. <i>Journal of Magnetic Resonance</i> , 2005, 174, 229-236.	2.1	26
110	Plasma Membrane Oxidoreductases: Effects on Erythrocyte Metabolism and Redox Homeostasis. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 1241-1247.	5.4	26
111	Assembly of the oncogenic DNA-binding complex LMO2-1-AL1. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 1461-1474.	2.6	26
112	Conformations of platypus venom C-type natriuretic peptide in aqueous solution and sodium dodecyl sulfate micelles. <i>Toxicon</i> , 2002, 40, 711-719.	1.6	25
113	Diffusion coefficients of the monomer and oligomers in hydroxyethyl methacrylate. <i>Journal of Polymer Science Part A</i> , 2003, 41, 2491-2501.	2.3	25
114	Mechanism of Mg ²⁺ Binding in the Na ⁺ ,K ⁺ -ATPase. <i>Biophysical Journal</i> , 2009, 96, 3753-3761.	0.5	25
115	Glyoxalase 2 deficiency in the erythrocytes of a horse: ¹ H NMR studies of enzyme kinetics and transport of S-lactoylglutathione. <i>Archives of Biochemistry and Biophysics</i> , 1991, 291, 291-299.	3.0	24
116	Transmembrane Exchange of Hyperpolarized ¹³ C-Urea in Human Erythrocytes: Subminute Timescale Kinetic Analysis. <i>Biophysical Journal</i> , 2013, 105, 1956-1966.	0.5	24
117	Cucurbit[5]uril-metal complex-induced room-temperature phosphorescence of 1-naphthol and 2-naphthol. <i>Dalton Transactions</i> , 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. <i>Journal of Neurochemistry</i> , 1984, 43, 1561-1567.	3.9	23
119	Correlation of Viscosity and Conductance with ²³ Na-NMR Measurements. <i>Bulletin of the Chemical Society of Japan</i> , 1990, 63, 2961-2965.	3.2	23
120	The phenomenon of separate intra- and extracellular resonances of difluorophosphate in ³¹ P and ¹⁹ F NMR spectra of erythrocytes. <i>Magnetic Resonance in Medicine</i> , 1991, 18, 193-198.	3.0	23
121	⁷ Li and ²³ Na nuclear magnetic resonance studies of transport and diffusion in liposomes. Comparison of transport rate constants estimated using pulsed field gradient and magnetization-transfer procedures. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 2807.	1.7	23
122	Determination of the Bound Water Fraction in Cells and Protein Solutions Using ¹⁷ O-Water Multiple-Quantum Filtered Relaxation Analysis. <i>Journal of Magnetic Resonance Series B</i> , 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 ¹⁷ O-water. <i>Biophysical Chemistry</i> , 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. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 441-444.	3.0	23
125	Kinetics of In Vitro Digestion of Starches Monitored by Time-Resolved ¹ H Nuclear Magnetic Resonance. <i>Biomacromolecules</i> , 2009, 10, 638-644.	5.4	23
126	Changes in Cellular and Plasma Membrane Phospholipid Composition after Lipopolysaccharide Stimulation of Human Neutrophils, Studied by ³¹ P NMR. <i>FEBS Journal</i> , 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. <i>Biophysical Journal</i> , 2002, 83, 161-171.	0.5	22
128	Antifungal Effects on Metabolite Profiles of Medically Important Yeast Species Measured by Nuclear Magnetic Resonance Spectroscopy. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 4018-4026.	3.2	22
129	Erythrocyte shape evolution recorded with fast measurement NMR diffusion diffraction. <i>Journal of Magnetic Resonance Imaging</i> , 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. <i>Biochemistry</i> , 1994, 33, 3548-3559.	2.5	21
131	Investigation of methaemoglobin reduction by extracellular NADH in mammalian erythrocytes. <i>International Journal of Biochemistry and Cell Biology</i> , 2005, 37, 1438-1445.	2.8	21
132	Further investigation of the use of dimethyl methylphosphonate as a ³¹ P-NMR probe of red cell volume. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1988, 968, 160-166.	4.1	20
133	² H ₂ O quadrupolar splitting used to measure water exchange in erythrocytes. <i>Journal of Magnetic Resonance</i> , 2008, 192, 48-59.	2.1	20
134	Receptor Expression Modulates Calcium-Sensing Receptor Mediated Intracellular Ca ²⁺ Mobilization. <i>Endocrinology</i> , 2015, 156, 1330-1342.	2.8	20
135	Characterization of the transport of the nonelectrolyte dimethyl methylphosphonate across the red cell membrane. <i>NMR in Biomedicine</i> , 1989, 1, 198-204.	2.8	19
136	Microviscosity of human erythrocytes studied with hypophosphite and ³¹ P-NMR. <i>Biophysical Chemistry</i> , 1989, 33, 205-215.	2.8	19
137	Nmr studies of diffusional water permeability of erythrocytes from eight species of marsupial. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1993, 106, 515-518.	0.6	19
138	Human erythrocyte flickering: temperature, ATP concentration, water transport, and cell aging, plus a computer simulation. <i>European Biophysics Journal</i> , 2009, 38, 923-939.	2.2	19
139	Erythrocyte shape reversion from echinocytes to discocytes: Kinetics via fast measurement NMR diffusion diffraction. <i>Magnetic Resonance in Medicine</i> , 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. <i>Journal of Magnetic Resonance</i> , 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. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1984, 805, 191-203.	4.1	18
142	¹⁹ F NMR magnetization transfer between 5-FBAPTA and its complexes. An alternative means for measuring free Ca ²⁺ concentration, and detection of complexes with protein in erythrocytes. <i>NMR in Biomedicine</i> , 1994, 7, 330-338.	2.8	18
143	Structure of the pore-helix of the hERG K ⁺ channel. <i>European Biophysics Journal</i> , 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. <i>Journal of Biotechnology</i> , 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. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 304, H1495-H1504.	3.2	18
146	A ³⁵ Cl and ³⁷ Cl NMR study of chloride binding to the erythrocyte anion transport protein. <i>Biophysical Chemistry</i> , 1991, 40, 329-337.	2.8	17
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