Philip W Kuchel

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306 8,074 3.9 5.77 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
300	Human erythrocyte metabolism studies by 1H spin echo NMR. FEBS Letters, 1977, 82, 12-6	3.8	242
299	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	10.3	241
298	NMR diffusion measurements to characterise membrane transport and solute binding. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1997 , 30, 39-68	10.4	202
297	Imaging brain deoxyglucose uptake and metabolism by glucoCEST MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 1270-8	7.3	126
296	NMR "diffusion-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, 637-43	4.4	122
295	Model of 2,3-bisphosphoglycerate metabolism in the human erythrocyte based on detailed enzyme kinetic equations1: equations and parameter refinement. <i>Biochemical Journal</i> , 1999 , 342, 581-596	3.8	107
294	Defensins and the convergent evolution of platypus and reptile venom genes. <i>Genome Research</i> , 2008 , 18, 986-94	9.7	101
293	Drug binding to the inactivated state is necessary but not sufficient for high-affinity binding to human ether-	4.3	100
292	Hepcidin, the hormone of iron metabolism, is bound specifically to alpha-2-macroglobulin in blood. <i>Blood</i> , 2009 , 113, 6225-36	2.2	92
291	Proton nuclear magnetic resonance-based metabonomics for rapid diagnosis of meningitis and ventriculitis. <i>Clinical Infectious Diseases</i> , 2005 , 41, 1582-90	11.6	89
290	The beta-defensin-fold family of polypeptides. <i>Toxicon</i> , 2004 , 44, 581-8	2.8	88
289	The GEdos channel: a review of the Ca2+-activated K+ channel in human erythrocytes. <i>International Journal of Biochemistry and Cell Biology</i> , 2003 , 35, 1182-97	5.6	84
288	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. <i>Biochemical Journal</i> , 1999 , 342, 567-580	3.8	80
287	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, 256-65	3	79
286	Reaction of cis- and trans-[PtCl2(NH3)2] with reduced glutathione studied by 1H, 13C, 195Pt and 15N-{1H} DEPT NMR. <i>Journal of Inorganic Biochemistry</i> , 1990 , 38, 305-326	4.2	78
285	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, 597-604	3.8	77
284	Reaction of cis- and trans-[PtCl2(NH3)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, 327-45	4.2	77

283	The N-terminal tail of hERG contains an amphipathic Enelix that regulates channel deactivation. <i>PLoS ONE</i> , 2011 , 6, e16191	3.7	72	
282	AAV2/8-mediated correction of OTC deficiency is robust in adult but not neonatal Spf(ash) mice. <i>Molecular Therapy</i> , 2009 , 17, 1340-6	11.7	71	
281	NMR Study of the Association of Propofol with Nonionic Surfactants. <i>Langmuir</i> , 2003 , 19, 2088-2095	4	69	
280	D-Amino acid residue in the C-type natriuretic peptide from the venom of the mammal, Ornithorhynchus anatinus, the Australian platypus. <i>FEBS Letters</i> , 2002 , 524, 172-6	3.8	67	
279	Characterisation of erythrocyte shapes and sizes by NMR diffusion-diffraction of water: correlations with electron micrographs. <i>Magnetic Resonance Imaging</i> , 1998 , 16, 423-34	3.3	64	
278	Mechanism of action of P-glycoprotein in relation to passive membrane permeation. <i>International Review of Cytology</i> , 1999 , 190, 175-250		64	
277	Structure of the HERG K+ channel S5P extracellular linker: role of an amphipathic alpha-helix in C-type inactivation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 42136-48	5.4	63	
276	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, 371-86		62	
275	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	3.8	61	
274	13C NMR studies of vitamin C transport and its redox cycling in human erythrocytes. <i>Biochemistry</i> , 1998 , 37, 7578-88	3.2	60	
273	Role of N-acetylcysteine and cystine in glutathione synthesis in human erythrocytes. <i>Redox Report</i> , 2009 , 14, 115-24	5.9	58	
272	Pulsed field gradient nuclear magnetic resonance as a tool for studying drug delivery systems. <i>Concepts in Magnetic Resonance</i> , 2003 , 19A, 51-64		58	
271	Kinetic analysis of the human erythrocyte glyoxalase system using 1H NMR and a computer model. <i>FEBS Journal</i> , 1990 , 193, 83-90		58	
270	Glutathione synthesis and turnover in the human erythrocyte: alignment of a model based on detailed enzyme kinetics with experimental data. <i>Journal of Biological Chemistry</i> , 2010 , 285, 23557-67	5.4	55	
269	PFG NMR diffusion experiments for complex systems. <i>Concepts in Magnetic Resonance Part A:</i> Bridging Education and Research, 2006 , 28A, 249-269	0.6	55	
268	Phospholipid composition of erythrocyte membranes and plasma of mammalian blood including Australian marsupials; quantitative 31P NMR analysis using detergent. <i>Comparative Biochemistry and Molecular Biology</i> , 1996 , 113, 221-7	2.3	55	
267	D-amino acid residue in a defensin-like peptide from platypus venom: effect on structure and chromatographic properties. <i>Biochemical Journal</i> , 2005 , 391, 215-20	3.8	54	
266	Solution structure of a defensin-like peptide from platypus venom. <i>Biochemical Journal</i> , 1999 , 341, 785	-7;9 8 1	52	

265	Kinetics of uptake and deacetylation of N-acetylcysteine by human erythrocytes. <i>International Journal of Biochemistry and Cell Biology</i> , 2007 , 39, 1698-706	5.6	51
264	The HERG K+ channel: progress in understanding the molecular basis of its unusual gating kinetics. <i>European Biophysics Journal</i> , 2004 , 33, 89-97	1.9	51
263	Identification of a novel family of proteins in snake venoms. Purification and structural characterization of nawaprin from Naja nigricollis snake venom. <i>Journal of Biological Chemistry</i> , 2003 , 278, 40097-104	5.4	49
262	Substrate specificity of platypus venom L-to-D-peptide isomerase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 8969-75	5.4	48
261	Model of 2,3-bisphosphoglycerate metabolism in the human erythrocyte based on detailed enzyme kinetic equations1: equations and parameter refinement. <i>Biochemical Journal</i> , 1999 , 342, 581	3.8	48
260	Comparison of computer simulations of the F-type and L-type non-oxidative hexose monophosphate shunts with 31P-NMR experimental data from human erythrocytes. <i>FEBS Journal</i> , 1989 , 180, 399-420		47
259	Cell volume dependence of 1H spin-echo NMR signals in human erythrocyte suspensions. The influence of in situ field gradients. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1984 , 803, 137-44	4.9	47
258	Tunable-alignment chiral system based on gelatin for NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5340-1	16.4	46
257	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. <i>Journal of Biotechnology</i> , 2000 , 78, 23-37	3.7	46
256	Novel venom gene discovery in the platypus. <i>Genome Biology</i> , 2010 , 11, R95	18.3	45
255	Diffusion of solutes in agarose and alginate gels: 1H and 23Na PFGSE and 23Na TQF NMR studies. <i>Magnetic Resonance in Medicine</i> , 1997 , 37, 44-52	4.4	45
254	Mammalian l-to-d-amino-acid-residue isomerase from platypus venom. <i>FEBS Letters</i> , 2006 , 580, 1587-91	3.8	45
253	Physical basis of the effect of hemoglobin on the 31P NMR chemical shifts of various phosphoryl compounds. <i>Biochemistry</i> , 1988 , 27, 8803-10	3.2	44
252	31P NMR spin-transfer in the phosphoglyceromutase reaction. <i>FEBS Journal</i> , 1984 , 143, 643-9		42
251	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. <i>Biochemical Journal</i> , 1999 , 342, 567	3.8	42
250	The effects of long-term storage of human red blood cells on the glutathione synthesis rate and steady-state concentration. <i>Transfusion</i> , 2011 , 51, 1450-9	2.9	41
249	Structural selectivity and molecular nature of L-glutamate transport in cultured human fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 353, 356-64	4.1	41
248	Effects of cholesterol on transmembrane water diffusion in human erythrocytes measured using pulsed field gradient NMR. <i>Biophysical Chemistry</i> , 1995 , 55, 197-208	3.5	41

247	1H and 31P NMR and HPLC studies of mouse L1210 leukemia cell extracts: the effect of Au(I) and Cu(I) diphosphine complexes on the cell metabolism. <i>Magnetic Resonance in Medicine</i> , 1991 , 18, 142-58	4.4	41
246	Parametric-equation representation of biconcave erythrocytes. <i>Bulletin of Mathematical Biology</i> , 1999 , 61, 209-20	2.1	40
245	The pore domain outer helix contributes to both activation and inactivation of the HERG K+ channel. <i>Journal of Biological Chemistry</i> , 2009 , 284, 1000-8	5.4	39
244	Glutamine and Eketoglutarate as glutamate sources for glutathione synthesis in human erythrocytes. <i>FEBS Journal</i> , 2011 , 278, 3152-63	5.7	38
243	Redox reactions and electron transfer across the red cell membrane. <i>IUBMB Life</i> , 2003 , 55, 375-85	4.7	38
242	Solution structure of CnErg1 (Ergtoxin), a HERG specific scorpion toxin. <i>FEBS Letters</i> , 2003 , 539, 138-42	3.8	38
241	Thermodynamic and hydrodynamic properties of human tropoelastin. Analytical ultracentrifuge and pulsed field-gradient spin-echo NMR studies. <i>Journal of Biological Chemistry</i> , 2001 , 276, 28042-50	5.4	38
240	Assignment of coherence features in NMR q-space plots to particular diffusion modes in erythrocyte suspensions. <i>Journal of Magnetic Resonance</i> , 1999 , 138, 135-43	3	38
239	Heteronuclear NMR studies of metabolites produced by Cryptococcus neoformans in culture media: identification of possible virulence factors. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 442-53	4.4	38
238	Spin-exchange NMR spectroscopy in studies of the kinetics of enzymes and membrane transport. <i>NMR in Biomedicine</i> , 1990 , 3, 102-19	4.4	37
237	Intracellular pH in stored erythrocytes. Refinement and further characterisation of the 31P-NMR methylphosphonate procedure. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1986 , 885, 23-33	34.9	37
236	The S4-S5 linker acts as a signal integrator for HERG K+ channel activation and deactivation gating. <i>PLoS ONE</i> , 2012 , 7, e31640	3.7	36
235	Induction and prevention of severe hyperammonemia in the spfash mouse model of ornithine transcarbamylase deficiency using shRNA and rAAV-mediated gene delivery. <i>Molecular Therapy</i> , 2011 , 19, 854-9	11.7	36
234	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		36
233	Direct NMR evidence that prolidase is specific for the trans isomer of imidodipeptide substrates. <i>Biochemistry</i> , 1986 , 25, 1054-62	3.2	36
232	Quantitative 31P nuclear magnetic resonance analysis of the phospholipids of erythrocyte membranes using detergent. <i>Lipids</i> , 1996 , 31, 765-70	1.6	35
231	Convection-compensating PGSE experiment incorporating excitation-sculpting water suppression (CONVEX). <i>Journal of Magnetic Resonance</i> , 2004 , 169, 92-101	3	34
230	Endogenous phospholipase and choline release in human erythrocytes: a study using 1H-NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 1982 , 105, 1280-7	3.4	34

229	Rapid simulation and analysis of isotopomer distributions using constraints based on enzyme mechanisms: an example from HT29 cancer cells. <i>Bioinformatics</i> , 2005 , 21, 3558-64	7.2	33
228	Biochemical and functional characterisation of secreted phospholipase activities from Cryptococcus neoformans in their naturally occurring state. <i>Journal of Medical Microbiology</i> , 1999 , 48, 731-740	3.2	33
227	Permeability coefficients from NMR q-space data: models with unevenly spaced semi-permeable parallel membranes. <i>Journal of Magnetic Resonance</i> , 1999 , 139, 258-72	3	33
226	Stejskal-tanner equation derived in full. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2012 , 40A, 205-214	0.6	32
225	NMR (Pro)chiral discrimination using polysaccharide gels. <i>Chemistry - A European Journal</i> , 2009 , 15, 121	8 2. 91	32
224	Understanding and utilising mammalian venom via a platypus venom transcriptome. <i>Journal of Proteomics</i> , 2009 , 72, 155-64	3.9	32
223	Modelling Metabolism with Mathematica		32
222	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	3.8	32
221	Nuclear Magnetic Resonance of Biological Samples. <i>Critical Reviews in Analytical Chemistry</i> , 1981 , 12, 155-231	5.2	32
220	Mathematical modelling of the urea cycle. A numerical investigation into substrate channelling. <i>FEBS Journal</i> , 2003 , 270, 3953-61		31
219	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	16.4	31
218	Perturbation of homogeneous magnetic fields by isolated single and confocal spheroids. Implications for NMR spectroscopy of cells. <i>NMR in Biomedicine</i> , 1989 , 2, 151-60	4.4	30
217	Glucose transport in human erythrocytes measured using 13C NMR spin transfer. <i>FEBS Letters</i> , 1987 , 219, 5-10	3.8	30
216	Adeno-associated virus-mediated rescue of neonatal lethality in argininosuccinate synthetase-deficient mice. <i>Molecular Therapy</i> , 2013 , 21, 1823-31	11.7	29
215	Conformation of reduced glutathione in aqueous solution by 1H and 13C n.m.r. <i>International Journal of Peptide and Protein Research</i> , 1987 , 29, 638-46		29
214	Why does the mammalian red blood cell have aquaporins?. <i>BioSystems</i> , 2005 , 82, 189-96	1.9	29
213	Elevated glutamate dehydrogenase flux in glucose-deprived hybridoma and myeloma cells: evidence from 1H/15N NMR. <i>Biotechnology and Bioengineering</i> , 1998 , 60, 508-17	4.9	28
212	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	3	28

211	NMR structure of bucandin, a neurotoxin from the venom of the Malayan krait (Bungarus candidus). <i>Biochemical Journal</i> , 2001 , 360, 539-548	3.8	28
210	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		28
209	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, 12792-8	3.2	28
208	Inhibition and active-site modelling of prolidase. <i>FEBS Journal</i> , 1989 , 180, 377-84		28
207	Characterization of transmembrane chemical shift differences in the 31P NMR spectra of various phosphoryl compounds added to erythrocyte suspensions. <i>Biochemistry</i> , 1988 , 27, 8795-802	3.2	28
206	Proton NMR spectroscopic studies of dipeptidase in human erythrocytes. <i>Biochemical and Biophysical Research Communications</i> , 1983 , 110, 305-12	3.4	28
205	New discrete metallocycles incorporating palladium(II) and platinum(II) corners and dipyridyldibenzotetraaza[14]annulene side units. <i>Dalton Transactions</i> , 2006 , 744-50	4.3	26
204	Measurement of compartment size in q-space experiments: Fourier transform of the second derivative. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 907-12	4.4	26
203	Effect of nonrectangular field gradient pulses in the stejskal and tanner (diffusion) pulse sequence. Journal of Magnetic Resonance, 1991 , 94, 133-139		26
202	Accelerating metabolism and transmembrane cation flux by distorting red blood cells. <i>Science Advances</i> , 2017 , 3, eaao1016	14.3	25
201	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	9 -65	25
200	Prochiral and chiral resolution in 2H NMR spectra: solutes in stretched and compressed gelatin gels. Journal of Physical Chemistry A, 2008, 112, 8659-64	2.8	25
199	Convection-compensating diffusion experiments with phase-sensitive double-quantum filtering. <i>Journal of Magnetic Resonance</i> , 2005 , 174, 229-36	3	25
198	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	6.2	25
197	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, 986	5 ∮ -∮86	8 ²⁴
196	Conformations of platypus venom C-type natriuretic peptide in aqueous solution and sodium dodecyl sulfate micelles. <i>Toxicon</i> , 2002 , 40, 711-9	2.8	24
195	Solution structure of a defensin-like peptide from platypus venom. <i>Biochemical Journal</i> , 1999 , 341, 785	3.8	24
194	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		23

193	13C-NMR studies of transmembrane electron transfer to extracellular ferricyanide in human erythrocytes. <i>FEBS Journal</i> , 1997 , 246, 638-45		23
192	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, 221-7	1.9	23
191	Diffusion coefficients of the monomer and oligomers in hydroxyethyl methacrylate. <i>Journal of Polymer Science Part A</i> , 2003 , 41, 2491-2501	2.5	22
190	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	3.8	22
189	Determination of NADH-dependent glutamate synthase (GOGAT) in Spodoptera frugiperda (Sf9) insect cells by a selective 1H/15N NMR in vitro assay. <i>Journal of Biotechnology</i> , 2000 , 79, 87-97	3.7	22
188	The phenomenon of separate intra- and extracellular resonances of difluorophosphate in 31P and 19F NMR spectra of erythrocytes. <i>Magnetic Resonance in Medicine</i> , 1991 , 18, 193-8	4.4	22
187	Glyoxalase 2 deficiency in the erythrocytes of a horse: 1H NMR studies of enzyme kinetics and transport of S-lactoylglutathione. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 291, 291-9	4. 1	22
186	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, 1561-7	6	22
185	Kinetics of in vitro digestion of starches monitored by time-resolved (1)H Nuclear Magnetic Resonance. <i>Biomacromolecules</i> , 2009 , 10, 638-44	6.9	21
184	Mechanism of Mg2+ binding in the Na+,K+-ATPase. <i>Biophysical Journal</i> , 2009 , 96, 3753-61	2.9	21
183	Changes in cellular and plasma membrane phospholipid composition after lipopolysaccharide stimulation of human neutrophils, studied by 31P NMR. <i>FEBS Journal</i> , 1997 , 243, 328-35		21
182	Assembly of the oncogenic DNA-binding complex LMO2-Ldb1-TAL1-E12. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 70, 1461-74	4.2	21
181	Investigation of methaemoglobin reduction by extracellular NADH in mammalian erythrocytes. <i>International Journal of Biochemistry and Cell Biology</i> , 2005 , 37, 1438-45	5.6	21
180	Plasma membrane oxidoreductases: effects on erythrocyte metabolism and redox homeostasis. <i>Antioxidants and Redox Signaling</i> , 2006 , 8, 1241-7	8.4	21
179	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, 441-4	4.4	21
178	Simulations of molecular diffusion in lattices of cells: insights for NMR of red blood cells. Biophysical Journal, 2002 , 83, 161-71	2.9	21
177	7 Li 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. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 2807	7	21
176	Transmembrane exchange of hyperpolarized 13C-urea in human erythrocytes: subminute timescale kinetic analysis. <i>Biophysical Journal</i> , 2013 , 105, 1956-66	2.9	20

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175	Cucurbit[5]uril-metal complex-induced room-temperature phosphorescence of Haphthol and Ehaphthol. <i>Dalton Transactions</i> , 2013 , 42, 2608-15	4.3	20	
174	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, 187-98	3.5	20	
173	Determination of the Bound Water Fraction in Cells and Protein Solutions Using 17O-Water Multiple-Quantum Filtered Relaxation Analysis. <i>Journal of Magnetic Resonance Series B</i> , 1996 , 111, 1-8		20	
172	Stereospecificity of substrate usage by glyoxalase 1: nuclear magnetic resonance studies of kinetics and hemithioacetal substrate conformation. <i>Biochemistry</i> , 1994 , 33, 3548-59	3.2	20	
171	2H2O quadrupolar splitting used to measure water exchange in erythrocytes. <i>Journal of Magnetic Resonance</i> , 2008 , 192, 48-59	3	19	
170	Erythrocyte-shape evolution recorded with fast-measurement NMR diffusion-diffraction. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 1409-16	5.6	19	
169	Characterization of the transport of the nonelectrolyte dimethyl methylphosphonate across the red cell membrane. <i>NMR in Biomedicine</i> , 1989 , 1, 198-204	4.4	19	
168	Receptor expression modulates calcium-sensing receptor mediated intracellular Ca2+ mobilization. <i>Endocrinology</i> , 2015 , 156, 1330-42	4.8	18	
167	Simultaneous estimation of Thand the flip angle in hyperpolarized NMR experiments using acquisition at non-regular time intervals. <i>Journal of Magnetic Resonance</i> , 2012 , 222, 68-73	3	18	
166	Human erythrocyte flickering: temperature, ATP concentration, water transport, and cell aging, plus a computer simulation. <i>European Biophysics Journal</i> , 2009 , 38, 923-39	1.9	18	
165	Microviscosity of human erythrocytes studied with hypophosphite and 31P-NMR. <i>Biophysical Chemistry</i> , 1989 , 33, 205-15	3.5	18	
164	Further investigation of the use of dimethyl methylphosphonate as a 31P-NMR probe of red cell volume. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1988 , 968, 160-6	4.9	18	
163	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. <i>Journal of Magnetic Resonance</i> , 2011 , 212, 40-6	3	17	
162	Structure of the pore-helix of the hERG K(+) channel. European Biophysics Journal, 2009, 39, 111-20	1.9	17	
161	Double quantum transition as the origin of the central dip in the z-spectrum of HDO in variably stretched gel. <i>Journal of Magnetic Resonance</i> , 2009 , 198, 197-203	3	17	
160	Erythrocyte shape reversion from echinocytes to discocytes: kinetics via fast-measurement NMR diffusion-diffraction. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 645-52	4.4	17	
159	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. <i>NMR in Biomedicine</i> , 1994 , 7, 330-8	4.4	17	
158	A 35Cl and 37Cl NMR study of chloride binding to the erythrocyte anion transport protein. <i>Biophysical Chemistry</i> , 1991 , 40, 329-37	3.5	17	

157	Mathematical Modeling and Data Analysis of NMR Experiments using Hyperpolarized (13)C Metabolites. <i>Magnetic Resonance Insights</i> , 2013 , 6, 13-21	5	16
156	Mammalian peptide isomerase: platypus-type activity is present in mouse heart. <i>Chemistry and Biodiversity</i> , 2010 , 7, 1603-11	2.5	16
155	Antifungal effects on metabolite profiles of medically important yeast species measured by nuclear magnetic resonance spectroscopy. <i>Antimicrobial Agents and Chemotherapy</i> , 2006 , 50, 4018-26	5.9	16
154	A way of visualizing NMR experiments on quadrupolar nuclei. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2005 , 25A, 40-52	0.6	16
153	NMR studies of exchange between intra- and extracellular glutathione in human erythrocytes. <i>Redox Report</i> , 2005 , 10, 83-90	5.9	16
152	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		16
151	Correlation of Viscosity and Conductance with 23Na+NMRT1 Measurements. <i>Bulletin of the Chemical Society of Japan</i> , 1990 , 63, 2961-2965	5.1	16
150	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	4.9	16
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