Philip W Kuchel

List of Publications by Year in Descending Order

300 papers	7,500 citations	45 h-index	67 g-index
306 ext. papers	8,074 ext. citations	3.9 avg, IF	5.77 L-index

#	Paper	IF	Citations
300	Extended Bloch–McConnell equations for mechanistic analysis of hyperpolarized ¹³C magnetic resonance experiments on enzyme systems. *Magnetic Resonance*, **2021**, 2, 421-446	2.9	0
299	Numerical Simulations of Red-Blood Cells in Fluid Flow: A Discrete Multiphysics Study. *ChemEngineering*, **2021**, 5, 33	2.6	
298	Surface model of the human red blood cell simulating changes in membrane curvature under strain. *Scientific Reports*, **2021**, 11, 13712	4.9	2
297	Identification of beryllium fluoride complexes in mechanically distorted gels using quadrupolar split Be NMR spectra resolved with solution-state selective cross-polarization. *Physical Chemistry Chemical Physics*, **2021**, 23, 16932-16941	3.6	0
296	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	0.6	
295	Enhanced Ca influx in mechanically distorted erythrocytes measured with F nuclear magnetic resonance spectroscopy. *Scientific Reports*, **2021**, 11, 3749	4.9	5
294	Review of Mutarotase in Metabolic Subculture and Analytical Biochemistry: Prelude to 19F NMR Studies of its Substrate Specificity and Mechanism. *Australian Journal of Chemistry*, **2020**, 73, 112	1.2	
293	Chapter 7:Cells in Gels: NMR Studies. *New Developments in NMR*, **2020**, 228-253	0.9	1
292	Anomerisation of Fluorinated Sugars by Mutarotase Studied Using 19F NMR Two-Dimensional Exchange Spectroscopy. *Australian Journal of Chemistry*, **2020**, 73, 117	1.2	3
291	Effect of red blood cell shape changes on haemoglobin interactions and dynamics: a neutron scattering study. *Royal Society Open Science*, **2020**, 7, 201507	3.3	2
290	Insights into Gene Therapy for Urea Cycle Defects by Mathematical Modeling. *Human Gene Therapy*, **2019**, 30, 1385-1394	4.8	9
289	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	0.4	1
288	Rapid zero-trans kinetics of Cs exchange in human erythrocytes quantified by dissolution hyperpolarized Cs NMR spectroscopy. *Scientific Reports*, **2019**, 9, 19726	4.9	3
287	Sub-minute kinetics of human red cell fumarase: H spin-echo NMR spectroscopy and C rapid-dissolution dynamic nuclear polarization. *NMR in Biomedicine*, **2018**, 31, e3870	4.4	7
286	The NMR 'split peak effect' in cell suspensions: Historical perspective, explanation and applications. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2018**, 104, 1-11	10.4	4
285	Glyoxalase activity in human erythrocytes and mouse lymphoma, liver and brain probed with hyperpolarized C-methylglyoxal. *Communications Biology*, **2018**, 1, 232	6.7	7
284	Transmembrane Exchange of Fluorosugars: Characterization of Red Cell GLUT1 Kinetics Using F NMR. *Biophysical Journal*, **2018**, 115, 1906-1919	2.9	11

283	Anisotropic diffusion in stretched hydrogels containing erythrocytes: evidence of cell-shape distortion recorded by PGSE NMR spectroscopy. *Magnetic Resonance in Chemistry*, **2017**, 55, 438-446	2.1	7
282	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	2.1	6
281	The S1 helix critically regulates the finely tuned gating of Kv11.1 channels. *Journal of Biological Chemistry*, **2017**, 292, 7688-7705	5.4	6
280	Accelerating metabolism and transmembrane cation flux by distorting red blood cells. *Science Advances*, **2017**, 3, eaao1016	14.3	25
279	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	5.1	24
278	Bile salt stimulated lipase: Inhibition by phospholipids and relief by phospholipase A. *Journal of Cystic Fibrosis*, **2017**, 16, 763-770	4.1	6
277	NMR magnetization-transfer analysis of rapid membrane transport in human erythrocytes. *Biophysical Reviews*, **2016**, 8, 369-384	3.7	6
276	Morphology and water permeability of red blood cells from green sea turtle (Chelonia mydas). *Protoplasma*, **2015**, 252, 1181-5	3.4	3
275	NMR Spectra of Glycine Isotopomers in Anisotropic Media: Subtle Chiral Interactions. *Analytical Chemistry*, **2015**, 87, 10437-42	7.8	3
274	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, 110-20	3	11
273	(1)H 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	3	5
272	FmR□analysis: Rapid and direct estimation of relaxation and kinetic parameters from dynamic nuclear polarization time courses. *Magnetic Resonance in Medicine*, **2015**, 73, 2075-80	4.4	6
271	The interaction of sterically stabilized magnetic nanoparticles with fresh human red blood cells. *International Journal of Nanomedicine*, **2015**, 10, 6645-55	7.3	9
270	Receptor expression modulates calcium-sensing receptor mediated intracellular Ca2+ mobilization. *Endocrinology*, **2015**, 156, 1330-42	4.8	18
269	Structure and antimicrobial activity of platypus 'intermediate' defensin-like peptide. *FEBS Letters*, **2014**, 588, 1821-6	3.8	3
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	3	4
267	Membrane flickering of the human erythrocyte: constrained random walk used with Bayesian analysis. *European Biophysics Journal*, **2014**, 43, 157-67	1.9	5
266	Membrane flickering of the human erythrocyte: physical and chemical effectors. *European Biophysics Journal*, **2014**, 43, 169-77	1.9	9

265	Long-lived spin state of a tripeptide in stretched hydrogel. *Journal of Biomolecular NMR*, **2014**, 59, 31-413	3	3
264	Dependence of residual dipolar couplings on foot angle in (1)H MR spectra from skeletal muscle. *Magnetic Resonance Imaging*, **2014**, 32, 379-84	3.3	6
263	Quadrupolar Splitting in Stretched Hydrogels **2014**, 171-180		4
262	Hyperpolarized [1,(13)C]pyruvate in lysed human erythrocytes: effects of co-substrate supply on reaction time courses. *NMR in Biomedicine*, **2014**, 27, 1203-10	4.4	10
261	NMR q-space analysis of canonical shapes of human erythrocytes: stomatocytes, discocytes, spherocytes and echinocytes. *European Biophysics Journal*, **2013**, 42, 3-16	1.9	6
260	Matrix-dependent modulation of anisotropic effects on NMR spectra from 7Li+ and 23Na+ encapsulated in cryptands. *European Biophysics Journal*, **2013**, 42, 17-23	1.9	6
259	Transmembrane exchange of hyperpolarized 13C-urea in human erythrocytes: subminute timescale kinetic analysis. *Biophysical Journal*, **2013**, 105, 1956-66	2.9	20
258	Adeno-associated virus-mediated rescue of neonatal lethality in argininosuccinate synthetase-deficient mice. *Molecular Therapy*, **2013**, 21, 1823-31	11.7	29
257	Cardiac magnetic resonance imaging of rapid VCAM-1 up-regulation in myocardial ischemia-reperfusion injury. *European Biophysics Journal*, **2013**, 42, 61-70	1.9	15
256	Stoichiometric relationship between Na(+) ions transported and glucose consumed in human erythrocytes: Bayesian analysis of (23)Na and (13)C NMR time course data. *Biophysical Journal*, **2013**, 104, 1676-84	2.9	11
255	'Chiral compartmentation' in metabolism: enzyme stereo-specificity yielding evolutionary options. *FEBS Letters*, **2013**, 587, 2790-7	3.8	10
254	Insights into hERG K+ channel structure and function from NMR studies. *European Biophysics Journal*, **2013**, 42, 71-9	1.9	10
253	Imaging brain deoxyglucose uptake and metabolism by glucoCEST MRI. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 1270-8	7.3	126
252	Cucurbit[5]uril-metal complex-induced room-temperature phosphorescence of β-naphthol and β-naphthol. *Dalton Transactions*, **2013**, 42, 2608-15	4.3	20
251	Mathematical Modeling and Data Analysis of NMR Experiments using Hyperpolarized (13)C Metabolites. *Magnetic Resonance Insights*, **2013**, 6, 13-21	5	16
250	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, H1495-504	5.2	15
249	(1)H NMR spectroscopy for the in vitro understanding of the glycaemic index. *British Journal of Nutrition*, **2013**, 109, 1934-9	3.6	3
248	Detection of platypus-type L/D-peptide isomerase activity in aqueous extracts of papaya fruit. *Biotechnology Letters*, **2012**, 34, 1659-65	3	2

247	Fermentative glycolysis with purified Escherichia coli enzymes for in vitro ATP production and evaluating an engineered enzyme. *Journal of Biotechnology*, **2012**, 157, 113-23	3.7	15
246	Stejskal-tanner equation derived in full. *Concepts in Magnetic Resonance Part A: Bridging Education and Research*, **2012**, 40A, 205-214	0.6	32
245	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	4.5	11
244	Skeletal muscle lipid metabolism studied by advanced magnetic resonance spectroscopy. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2012**, 65, 66-76	10.4	9
243	Simultaneous estimation of T□and the flip angle in hyperpolarized NMR experiments using acquisition at non-regular time intervals. *Journal of Magnetic Resonance*, **2012**, 222, 68-73	3	18
242	The S4-S5 linker acts as a signal integrator for HERG K+ channel activation and deactivation gating. *PLoS ONE*, **2012**, 7, e31640	3.7	36
241	96.45 Can you □end□a truncated truncated tetrahedron?. *Mathematical Gazette*, **2012**, 96, 317-323	0.1	2
240	Slow relaxation of longitudinal multispin orders in weakly and strongly coupled two-spin systems. *Magnetic Resonance in Chemistry*, **2012**, 50, 443-8	2.1	0
239	7Li+ NMR quadrupolar splitting in stretched hydrogels: developments in relaxation time estimation from z-spectra. *Magnetic Resonance in Chemistry*, **2012**, 50 Suppl 1, S17-21	2.1	6
238	Relative intensities of components of quadrupolar-split multiplets in NMR spectra: Rationale for a simple rule. *Concepts in Magnetic Resonance Part A: Bridging Education and Research*, **2012**, 40A, 90-99	0.6	8
237	The N-terminal tail of hERG contains an amphipathic □helix that regulates channel deactivation. *PLoS ONE*, **2011**, 6, e16191	3.7	72
236	The effects of long-term storage of human red blood cells on the glutathione synthesis rate and steady-state concentration. *Transfusion*, **2011**, 51, 1450-9	2.9	41
235	Glutamine and □ketoglutarate as glutamate sources for glutathione synthesis in human erythrocytes. *FEBS Journal*, **2011**, 278, 3152-63	5.7	38
234	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, 40-6	3	17
233	Kinetics of starch hydrolysis and glucose mutarotation studied by NMR chemical exchange saturation transfer (CEST). *Carbohydrate Polymers*, **2011**, 86, 1525-1532	10.3	6
232	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, 74-9	3	13
231	Starch granule characterization by kinetic analysis of their stages during enzymic hydrolysis: 1H nuclear magnetic resonance studies. *Carbohydrate Polymers*, **2011**, 83, 1775-1786	10.3	12
230	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, 854-9	11.7	36

229	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, 703-8	4.5	5
228	Novel venom gene discovery in the platypus. *Genome Biology*, **2010**, 11, R95	18.3	45
227	L-to-D-peptide isomerase in male echidna venom. *Australian Journal of Zoology*, **2010**, 58, 284	0.5	11
226	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, 373-8	4.5	6
225	Glutathione synthesis and turnover in the human erythrocyte: alignment of a model based on detailed enzyme kinetics with experimental data. *Journal of Biological Chemistry*, **2010**, 285, 23557-67	5.4	55
224	z-Spectra of 23Na+ in stretched gels: quantitative multiple quantum analysis. *Journal of Magnetic Resonance*, **2010**, 205, 260-8	3	14
223	Mathematical models of naturally "morphed" human erythrocytes: stomatocytes and echinocytes. *Bulletin of Mathematical Biology*, **2010**, 72, 1323-33	2.1	5
222	Mammalian peptide isomerase: platypus-type activity is present in mouse heart. *Chemistry and Biodiversity*, **2010**, 7, 1603-11	2.5	16
221	Erythrocyte shape reversion from echinocytes to discocytes: kinetics via fast-measurement NMR diffusion-diffraction. *Magnetic Resonance in Medicine*, **2010**, 64, 645-52	4.4	17
220	Digestion of starch: In vivo and in vitro kinetic models used to characterise oligosaccharide or glucose release. *Carbohydrate Polymers*, **2010**, 80, 599-617	10.3	241
219	The pore domain outer helix contributes to both activation and inactivation of the HERG K+ channel. *Journal of Biological Chemistry*, **2009**, 284, 1000-8	5.4	39
218	Platypus venom: source of novel compounds. *Australian Journal of Zoology*, **2009**, 57, 203	0.5	13
217	AAV2/8-mediated correction of OTC deficiency is robust in adult but not neonatal Spf(ash) mice. *Molecular Therapy*, **2009**, 17, 1340-6	11.7	71
216	Role of N-acetylcysteine and cystine in glutathione synthesis in human erythrocytes. *Redox Report*, **2009**, 14, 115-24	5.9	58
215	Comparative NMR studies of diffusional water permeability of red blood cells from different species: XV. Agile wallaby (Macropus agilis), red-necked wallaby (Macropus rufogriseus) and Goodfellow's tree kangaroo (Dendrolagus goodfellowi). *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2009**, 154, 105-9	2.6	8
214	NMR (Pro)chiral discrimination using polysaccharide gels. *Chemistry - A European Journal*, **2009**, 15, 12189-91	4.91	32
213	"Setting paint" analogy for the hydrophobic self-association of tropoelastin into elastin-like hydrogel. *Biopolymers*, **2009**, 91, 321-30	2.2	12
212	Structure of the pore-helix of the hERG K(+) channel. *European Biophysics Journal*, **2009**, 39, 111-20	1.9	17

211	Erythrocyte orientational and cell volume effects on NMR q-space analysis: simulations of restricted diffusion. *European Biophysics Journal*, **2009**, 39, 139-48	1.9	9
210	Effectors of the frequency of calcium oscillations in HEK-293 cells: wavelet analysis and a computer model. *European Biophysics Journal*, **2009**, 39, 149-65	1.9	10
209	Human erythrocyte flickering: temperature, ATP concentration, water transport, and cell aging, plus a computer simulation. *European Biophysics Journal*, **2009**, 38, 923-39	1.9	18
208	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	3	17
207	Understanding and utilising mammalian venom via a platypus venom transcriptome. *Journal of Proteomics*, **2009**, 72, 155-64	3.9	32
206	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	9.5	3
205	Kinetics of in vitro digestion of starches monitored by time-resolved (1)H Nuclear Magnetic Resonance. *Biomacromolecules*, **2009**, 10, 638-44	6.9	21
204	Mechanism of Mg2+ binding in the Na+,K+-ATPase. *Biophysical Journal*, **2009**, 96, 3753-61	2.9	21
203	Hepcidin, the hormone of iron metabolism, is bound specifically to alpha-2-macroglobulin in blood. *Blood*, **2009**, 113, 6225-36	2.2	92
202	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, 559-65	2.8	25
201	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
200	Inhomogeneous NMR line shape as a probe of microscopic organization of bicontinuous cubic phases. *Journal of Physical Chemistry B*, **2008**, 112, 6636-45	3.4	7
199	Substrate specificity of platypus venom L-to-D-peptide isomerase. *Journal of Biological Chemistry*, **2008**, 283, 8969-75	5.4	48
198	Drug binding to the inactivated state is necessary but not sufficient for high-affinity binding to human ether-□go-go-related gene channels. *Molecular Pharmacology*, **2008**, 74, 1443-52	4.3	100
197	Defensins and the convergent evolution of platypus and reptile venom genes. *Genome Research*, **2008**, 18, 986-94	9.7	101
196	92.81 10n 2 +2 revealed. *Mathematical Gazette*, **2008**, 92, 546-551	0.1	1
195	Assembly of the oncogenic DNA-binding complex LMO2-Ldb1-TAL1-E12. *Proteins: Structure, Function and Bioinformatics*, **2008**, 70, 1461-74	4.2	21
194	2H2O quadrupolar splitting used to measure water exchange in erythrocytes. *Journal of Magnetic Resonance*, **2008**, 192, 48-59	3	19

193	Erythrocyte-shape evolution recorded with fast-measurement NMR diffusion-diffraction. *Journal of Magnetic Resonance Imaging*, **2008**, 28, 1409-16	5.6	19
192	Water chemical shift in 1H NMR of red cells: effects of pH when transmembrane magnetic susceptibility differences are low. *Magnetic Resonance in Medicine*, **2008**, 59, 707-11	4.4	2
191	Isotopomer subspaces as indicators of metabolic-pathway structure. *Journal of Theoretical Biology*, **2008**, 252, 391-401	2.3	7
190	Tunable-alignment chiral system based on gelatin for NMR spectroscopy. *Journal of the American Chemical Society*, **2007**, 129, 5340-1	16.4	46
189	pH and cell volume effects on H2O and phosphoryl resonance splitting in rapid-spinning NMR of red cells. *Biophysical Journal*, **2007**, 92, 1770-6	2.9	9
188	91.69 Can you bend a truncated octahedron?. *Mathematical Gazette*, **2007**, 91, 533-536	0.1	4
187	Kinetics of uptake and deacetylation of N-acetylcysteine by human erythrocytes. *International Journal of Biochemistry and Cell Biology*, **2007**, 39, 1698-706	5.6	51
186	(39)K nuclear magnetic resonance and a mathematical model of K(+) transport in human erythrocytes. *European Biophysics Journal*, **2006**, 35, 293-301	1.9	3
185	Metabolic homeostasis in the human erythrocyte: in silico analysis. *BioSystems*, **2006**, 83, 118-24	1.9	5
184	PFG NMR diffusion experiments for complex systems. *Concepts in Magnetic Resonance Part A: Bridging Education and Research*, **2006**, 28A, 249-269	0.6	55
183	Antifungal effects on metabolite profiles of medically important yeast species measured by nuclear magnetic resonance spectroscopy. *Antimicrobial Agents and Chemotherapy*, **2006**, 50, 4018-26	5.9	16
182	Plasma membrane oxidoreductases: effects on erythrocyte metabolism and redox homeostasis. *Antioxidants and Redox Signaling*, **2006**, 8, 1241-7	8.4	21
181	New discrete metallocycles incorporating palladium(II) and platinum(II) corners and dipyridyldibenzotetraaza[14]annulene side units. *Dalton Transactions*, **2006**, 744-50	4.3	26
180	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, 9354-61	3.2	8
179	Mammalian l-to-d-amino-acid-residue isomerase from platypus venom. *FEBS Letters*, **2006**, 580, 1587-91	3.8	45
178	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. *Journal of Magnetic Resonance*, **2006**, 180, 256-65	3	79
177	Proton nuclear magnetic resonance-based metabonomics for rapid diagnosis of meningitis and ventriculitis. *Clinical Infectious Diseases*, **2005**, 41, 1582-90	11.6	89
176	Investigation of methaemoglobin reduction by extracellular NADH in mammalian erythrocytes. *International Journal of Biochemistry and Cell Biology*, **2005**, 37, 1438-45	5.6	21

175	D-amino acid residue in a defensin-like peptide from platypus venom: effect on structure and chromatographic properties. *Biochemical Journal*, **2005**, 391, 215-20	3.8	54
174	Convection-compensating diffusion experiments with phase-sensitive double-quantum filtering. *Journal of Magnetic Resonance*, **2005**, 174, 229-36	3	25
173	Acquisition of pure-phase diffusion spectra using oscillating-gradient spin echo. *Journal of Magnetic Resonance*, **2005**, 176, 151-9	3	11
172	Why does the mammalian red blood cell have aquaporins?. *BioSystems*, **2005**, 82, 189-96	1.9	29
171	A way of visualizing NMR experiments on quadrupolar nuclei. *Concepts in Magnetic Resonance Part A: Bridging Education and Research*, **2005**, 25A, 40-52	0.6	16
170	Determination of Na+ binding parameters by relaxation analysis of selected 23Na NMR coherences: RNA, BSA and SDS. *Magnetic Resonance in Chemistry*, **2005**, 43, 217-24	2.1	11
169	NMR studies of exchange between intra- and extracellular glutathione in human erythrocytes. *Redox Report*, **2005**, 10, 83-90	5.9	16
168	Rapid simulation and analysis of isotopomer distributions using constraints based on enzyme mechanisms: an example from HT29 cancer cells. *Bioinformatics*, **2005**, 21, 3558-64	7.2	33
167	Current status and challenges in connecting models of erythrocyte metabolism to experimental reality. *Progress in Biophysics and Molecular Biology*, **2004**, 85, 325-42	4.7	11
166	Convection-compensating PGSE experiment incorporating excitation-sculpting water suppression (CONVEX). *Journal of Magnetic Resonance*, **2004**, 169, 92-101	3	34
165	The HERG K+ channel: progress in understanding the molecular basis of its unusual gating kinetics. *European Biophysics Journal*, **2004**, 33, 89-97	1.9	51
164	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
163	Measurement of compartment size in q-space experiments: Fourier transform of the second derivative. *Magnetic Resonance in Medicine*, **2004**, 52, 907-12	4.4	26
162	Enhancement of Na+ diffusion in a bicontinuous cubic phase by the ionophore monensin. *Langmuir*, **2004**, 20, 2660-6	4	12
161	The beta-defensin-fold family of polypeptides. *Toxicon*, **2004**, 44, 581-8	2.8	88
160	Structure of the HERG K+ channel S5P extracellular linker: role of an amphipathic alpha-helix in C-type inactivation. *Journal of Biological Chemistry*, **2003**, 278, 42136-48	5.4	63
159	Identification of a novel family of proteins in snake venoms. Purification and structural characterization of nawaprin from Naja nigricollis snake venom. *Journal of Biological Chemistry*, **2003**, 278, 40097-104	5.4	49
158	Nobel Prizes for magnetic resonance imaging and channel proteins. *Medical Journal of Australia*, **2003**, 179, 611-3	4	10

157	Redox reactions and electron transfer across the red cell membrane. *IUBMB Life*, **2003**, 55, 375-85	4.7	38
156	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, 563-74	1.9	14
155	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, 671-5	1.9	10
154	Pulsed field gradient nuclear magnetic resonance as a tool for studying drug delivery systems. *Concepts in Magnetic Resonance*, **2003**, 19A, 51-64		58
153	Scalar couplings as pH probes in compartmentalized biological systems: 31P NMR of phosphite. *Magnetic Resonance in Medicine*, **2003**, 50, 693-6	4.4	7
152	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	2.5	3
151	Mathematical modelling of the urea cycle. A numerical investigation into substrate channelling. *FEBS Journal*, **2003**, 270, 3953-61		31
150	Diffusion coefficients of the monomer and oligomers in hydroxyethyl methacrylate. *Journal of Polymer Science Part A*, **2003**, 41, 2491-2501	2.5	22
149	NMR Studies of Diffusion-Coherence Phenomena in Red Cell Suspensions: Current Status. *Israel Journal of Chemistry*, **2003**, 43, 45-54	3.4	5
148	NMR Study of the Association of Propofol with Nonionic Surfactants. *Langmuir*, **2003**, 19, 2088-2095	4	69
147	Solution structure of CnErg1 (Ergtoxin), a HERG specific scorpion toxin. *FEBS Letters*, **2003**, 539, 138-42	3.8	38
146	The G□dos channel: a review of the Ca2+-activated K+ channel in human erythrocytes. *International Journal of Biochemistry and Cell Biology*, **2003**, 35, 1182-97	5.6	84
145	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	3.9	8
144	PGSE NMR diffusion study of the self-association of N-methylacetamide in carbon tetrachloride. *Magnetic Resonance in Chemistry*, **2002**, 40, S115-S121	2.1	9
143	Device for aeration and mixing of cell and organelle suspensions during NMR experiments. *Journal of Magnetic Resonance*, **2002**, 159, 158-60	3	
142	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, 172-6	3.8	67
141	Conformations of platypus venom C-type natriuretic peptide in aqueous solution and sodium dodecyl sulfate micelles. *Toxicon*, **2002**, 40, 711-9	2.8	24
140	Simulations of molecular diffusion in lattices of cells: insights for NMR of red blood cells. *Biophysical Journal*, **2002**, 83, 161-71	2.9	21

139	NMR structure of bucandin, a neurotoxin from the venom of the Malayan krait (Bungarus candidus). *Biochemical Journal*, **2001**, 360, 539-48	3.8	14
138	1H NMR of compounds with low water solubility in the presence of erythrocytes: effects of emulsion phase separation. *European Biophysics Journal*, **2001**, 30, 69-74	1.9	4
137	Thermodynamic and hydrodynamic properties of human tropoelastin. Analytical ultracentrifuge and pulsed field-gradient spin-echo NMR studies. *Journal of Biological Chemistry*, **2001**, 276, 28042-50	5.4	38
136	NMR structure of bucandin, a neurotoxin from the venom of the Malayan krait (Bungarus candidus). *Biochemical Journal*, **2001**, 360, 539-548	3.8	28
135	Defensin-like peptide-2 from platypus venom: member of a class of peptides with a distinct structural fold. *Biochemical Journal*, **2000**, 348, 649	3.8	22
134	Defensin-like peptide-2 from platypus venom: member of a class of peptides with a distinct structural fold. *Biochemical Journal*, **2000**, 348, 649-656	3.8	61
133	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	3	28
132	13C NMR evidence of the failure of human erythrocytes to metabolize ascorbate and dehydroascorbate to lactate. *Free Radical Biology and Medicine*, **2000**, 28, 1607-10	7.8	6
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