Chien Ho

List of Publications by Citations

296 papers	11,534 citations	57 h-index	92 g-index
309 ext. papers	12,246 ext. citations	5.6 avg, IF	5.69 L-index

#	Paper	IF	Citations
296	In situ labeling of immune cells with iron oxide particles: an approach to detect organ rejection by cellular MRI. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 1852-7	11.5	571
295	Hypoxia, red blood cells, and nitrite regulate NO-dependent hypoxic vasodilation. *Blood*, **2006**, 107, 566-74	11	408
294	Enzymatic function of hemoglobin as a nitrite reductase that produces NO under allosteric control. *Journal of Clinical Investigation*, **2005**, 115, 2099-107	15.9	399
293	Influence of globin structure on the state of the heme. I. Human deoxyhemoglobin. *Biochemistry*, **1974**, 13, 2163-73	3.2	291
292	Detection of single mammalian cells by high-resolution magnetic resonance imaging. *Biophysical Journal*, **1999**, 76, 103-9	2.9	242
291	Human neuroglobin functions as a redox-regulated nitrite reductase. *Journal of Biological Chemistry* , **2011**, 286, 18277-89	5.4	208
290	Intracellular labeling of T-cells with superparamagnetic contrast agents. *Magnetic Resonance in Medicine*, **1993**, 30, 617-25	4.4	184
289	Influence of globin structure on the state of the heme. 3. Changes in heme spectra accompanying allosteric transitions in methemoglobin and their implications for heme-heme interaction. *Biochemistry*, **1974**, 13, 2187-200	3.2	183
288	Quaternary structure of hemoglobin in solution. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 517-20	11.5	173
287	Attenuation of myocardial ischemia/reperfusion injury by superinduction of inducible nitric oxide synthase. *Circulation*, **2000**, 101, 2742-8	16.7	169
286	Severe controlled cortical impact in rats: assessment of cerebral edema, blood flow, and contusion volume. *Journal of Neurotrauma*, **1995**, 12, 1015-25	5.4	166
285	STACS: new active contour scheme for cardiac MR image segmentation. *IEEE Transactions on Medical Imaging*, **2005**, 24, 593-603	11.7	164
284	In vivo dynamic MRI tracking of rat T-cells labeled with superparamagnetic iron-oxide particles. *Magnetic Resonance in Medicine*, **1995**, 33, 200-8	4.4	156
283	Production of unmodified human adult hemoglobin in Escherichia coli. *Proceedings of the National Academy of Sciences of the United States of America*, **1993**, 90, 8108-12	11.5	146
282	The structure--function relationship of hemoglobin in solution at atomic resolution. *Chemical Reviews*, **2004**, 104, 1219-30	68.1	138
281	Cerebral perfusion during anesthesia with fentanyl, isoflurane, or pentobarbital in normal rats studied by arterial spin-labeled MRI. *Magnetic Resonance in Medicine*, **2001**, 46, 202-6	4.4	136
280	Macrophage accumulation associated with rat cardiac allograft rejection detected by magnetic resonance imaging with ultrasmall superparamagnetic iron oxide particles. *Circulation*, **2001**, 104, 934-8	16.7	135

279	A proton nuclear magnetic resonance study of the quaternary structure of human homoglobins in water. *Biochemistry*, **1975**, 14, 2526-35	3.2	113
278	Interactions between the quaternary structure of the globin and the spin state of the heme in ferric mixed spin derivatives of hemoglobin. *Biochemistry*, **1978**, 17, 3640-52	3.2	109
277	New look at hemoglobin allostery. *Chemical Reviews*, **2015**, 115, 1702-24	68.1	104
276	19F MRI detection of acute allograft rejection with in vivo perfluorocarbon labeling of immune cells. *Magnetic Resonance in Medicine*, **2011**, 65, 1144-53	4.4	102
275	The Kinetics of the Hydration of Carbon Dioxide at 25□ *Journal of Biological Chemistry*, **1963**, 238, 3499-3501	3.4	100
274	Accelerated MR parameter mapping with low-rank and sparsity constraints. *Magnetic Resonance in Medicine*, **2015**, 74, 489-98	4.4	99
273	Conjugation of multiple copies of polyethylene glycol to hemoglobin facilitated through thiolation: influence on hemoglobin structure and function. *Protein Journal*, **2005**, 24, 133-46	3.9	91
272	Proton nuclear magnetic resonance studies on hemoglobin: cooperative interactions and partially ligated intermediates. *Advances in Protein Chemistry*, **1992**, 43, 153-312		87
271	The crystal structure of D-lactate dehydrogenase, a peripheral membrane respiratory enzyme. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 9413-8	11.5	86
270	Automated probabilistic method for assigning backbone resonances of (13C,15N)-labeled proteins. *Journal of Biomolecular NMR*, **1997**, 9, 151-66	3	80
269	Magnetic resonance imaging detection of rat renal transplant rejection by monitoring macrophage infiltration. *Kidney International*, **2000**, 58, 1300-10	9.9	79
268	How much do we know about the Bohr effect of hemoglobin?. *Biochemistry*, **1987**, 26, 6299-305	3.2	79
267	The impact of physiological loading on immune cell infiltration and myocardial function evaluated by cardiac MRI: a comparison between non-working heart and working heart transplant models. *Journal of Cardiovascular Magnetic Resonance*, **2012**, 14,	6.9	78
266	Real-time free-breathing strategy for tracking labeled cells with in-vivo vardiac MRI. *Journal of Cardiovascular Magnetic Resonance*, **2009**, 11,	6.9	78
265	Non-invasive monitoring allograft rejection by simultaneous cellular and functional cardiac MRI. *Journal of Cardiovascular Magnetic Resonance*, **2009**, 11,	6.9	78
264	Proton nuclear magnetic resonance studies of hemoglobins M Boston (alpha 58E7 His leads to Tyr) and M Milwaukee (beta 67E11 Val leads to Glu): spectral assignments of hyperfine-shifted proton resonances and of proximal histidine (E7) NH resonances to the alpha and beta chains of normal human adult hemoglobin. *Biochemistry*, **1980**, 19, 5196-202	3.2	76
263	Effects of ligands and organic phosphates on functional properties of human adult hemoglobin. *Biochemistry*, **1974**, 13, 3653-61	3.2	76
262	Substitutions in woolly mammoth hemoglobin confer biochemical properties adaptive for cold tolerance. *Nature Genetics*, **2010**, 42, 536-40	36.3	74

261	Production of human normal adult and fetal hemoglobins in Escherichia coli. *Protein Engineering, Design and Selection*, **1997**, 10, 1085-97	1.9	73
260	Incorporation of fluorotryptophans into proteins of escherichia coli. *Biochemistry*, **1975**, 14, 3035-40	3.2	71
259	A test of the role of the proximal histidines in the Perutz model for cooperativity in haemoglobin. *Nature Structural and Molecular Biology*, **1997**, 4, 78-83	17.6	69
258	Role of the beta 146 histidyl residue in the alkaline Bohr effect of hemoglobin. *Biochemistry*, **1980**, 19, 1043-52	3.2	69
257	Assessment of cerebral blood flow and CO2 reactivity after controlled cortical impact by perfusion magnetic resonance imaging using arterial spin-labeling in rats. *Journal of Cerebral Blood Flow and Metabolism*, **1997**, 17, 865-74	7.3	68
256	Biliverdin administration prevents the formation of intimal hyperplasia induced by vascular injury. *Circulation*, **2005**, 112, 587-91	16.7	68
255	Cerebral blood flow at one year after controlled cortical impact in rats: assessment by magnetic resonance imaging. *Journal of Neurotrauma*, **2002**, 19, 1029-37	5.4	68
254	Nuclear magnetic resonance studies of hemoglobins. VI. Heme proton spectra of human deoxyhemoglobins and their relevance to the nature of co-operative oxygenation of hemoglobin. *Journal of Molecular Biology*, **1971**, 60, 101-11	6.5	68
253	Angiotensin-converting enzyme inhibitor preserves p21 and endothelial nitric oxide synthase expression in monocrotaline-induced pulmonary arterial hypertension in rats. *Circulation*, **2001**, 104, 945-50	16.7	67
252	Effects of anions and ligands on the tertiary structure around ligand binding site in human adult hemoglobin. *Biochemistry*, **1973**, 12, 134-9	3.2	67
251	Perfusion quantitation in transplanted rat kidney by MRI with arterial spin labeling. *Kidney International*, **1998**, 53, 1783-91	9.9	66
250	In vivo detection of acute rat renal allograft rejection by MRI with USPIO particles. *Kidney International*, **2002**, 61, 1124-35	9.9	65
249	Longitudinal tracking of recipient macrophages in a rat chronic cardiac allograft rejection model with noninvasive magnetic resonance imaging using micrometer-sized paramagnetic iron oxide particles. *Circulation*, **2008**, 118, 149-56	16.7	64
248	NMR reveals hydrogen bonds between oxygen and distal histidines in oxyhemoglobin. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 10354-8	11.5	64
247	Characterization of the lipid-carrier involved in the synthesis of enterobacterial common antigen (ECA) and identification of a novel phosphoglyceride in a mutant of Salmonella typhimurium defective in ECA synthesis. *Glycobiology*, **1998**, 8, 557-67	5.8	60
246	Contribution of surface histidyl residues in the alpha-chain to the Bohr effect of human normal adult hemoglobin: roles of global electrostatic effects. *Biochemistry*, **1997**, 36, 6663-73	3.2	59
245	Proton nuclear Overhauser effect investigation of the heme pockets in ligated hemoglobin: conformational differences between oxy and carbonmonoxy forms. *Biochemistry*, **1985**, 24, 3398-407	3.2	59
244	A proton nuclear magnetic resonance investigation of histidyl residues in human normal adult hemoglobin. *Biochemistry*, **1982**, 21, 5031-43	3.2	58

243	Early perfusion after controlled cortical impact in rats: quantification by arterial spin-labeled MRI and the influence of spin-lattice relaxation time heterogeneity. *Magnetic Resonance in Medicine*, **1999**, 42, 673-81	4.4	57
242	Assessment of roles of surface histidyl residues in the molecular basis of the Bohr effect and of beta 143 histidine in the binding of 2,3-bisphosphoglycerate in human normal adult hemoglobin. *Biochemistry*, **1999**, 38, 13423-32	3.2	57
241	Nuclear magnetic resonance and molecular genetic studies of the membrane-bound D-lactate dehydrogenase of Escherichia coli. *Biochemistry*, **1987**, 26, 549-56	3.2	57
240	Interactions of bovine alpha-s-casein with small ions. *Journal of the American Chemical Society*, **1965**, 87, 110-7	16.4	57
239	Noninvasive evaluation of cardiac allograft rejection by cellular and functional cardiac magnetic resonance. *JACC: Cardiovascular Imaging*, **2009**, 2, 731-41	8.4	56
238	Superparamagnetic iron oxide particles transactivator protein-fluorescein isothiocyanate particle labeling for in vivo magnetic resonance imaging detection of cell migration: uptake and durability. *Transplantation*, **2003**, 76, 1043-6	1.8	56
237	USPIO-enhanced dynamic MRI: evaluation of normal and transplanted rat kidneys. *Magnetic Resonance in Medicine*, **2001**, 46, 1152-63	4.4	56
236	Tracking T-cells in vivo with a new nano-sized MRI contrast agent. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2012**, 8, 1345-54	6	55
235	Chain-selective isotopic labeling for NMR studies of large multimeric proteins: application to hemoglobin. *Biophysical Journal*, **2000**, 79, 1146-54	2.9	55
234	MRI detection of macrophages labeled using micrometer-sized iron oxide particles. *Journal of Magnetic Resonance Imaging*, **2007**, 25, 1210-8	5.6	54
233	Normal and transplanted rat kidneys: diffusion MR imaging at 7 T. *Radiology*, **2004**, 231, 702-9	20.5	53
232	An investigation of the ligand-binding site of the glutamine-binding protein of Escherichia coli using rotational-echo double-resonance NMR. *Biochemistry*, **1994**, 33, 8651-61	3.2	53
231	Fluorine-19 nuclear magnetic resonance studies of lipid phase transitions in model and biological membranes. *Biochemistry*, **1978**, 17, 3023-38	3.2	51
230	Decreased reticuloendothelial system clearance and increased blood half-life and immune cell labeling for nano- and micron-sized superparamagnetic iron-oxide particles upon pre-treatment with Intralipid. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 3447-53	4	50
229	Ligand-free open-closed transitions of periplasmic binding proteins: the case of glutamine-binding protein. *Biochemistry*, **2010**, 49, 1893-902	3.2	50
228	Magnetic resonance imaging assessment of regional cerebral blood flow after asphyxial cardiac arrest in immature rats. *Journal of Cerebral Blood Flow and Metabolism*, **2009**, 29, 197-205	7.3	50
227	Paramagnetic proton nuclear magnetic resonance shifts of metmyoglobin, methemoglobin, and hemin derivatives. *Journal of the American Chemical Society*, **1968**, 90, 2700-1	16.4	50
226	Phosphorus nuclear magnetic resonance studies of phosphoproteins and phosphorylated molecules. II. Chemical nature of phosphorus atoms in alpha S-casein B and phosvitin. *Biochemistry*, **1969**, 8, 2074-82	3.2	50

225	Restoring allosterism with compensatory mutations in hemoglobin. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 11547-51	11.5	49
224	Nuclear magnetic resonance and fluorescence studies of substrate-induced conformational changes of histidine-binding protein J of Salmonella typhimurium. *Biochemistry*, **1977**, 16, 1443-51	3.2	49
223	Quaternary structure sensitive tyrosine interactions in hemoglobin: a UV resonance Raman study of the double mutant rHb (beta99Asp-->Asn, alpha42Tyr-->Asp). *Biochemistry*, **1997**, 36, 6197-206	3.2	48
222	31P NMR measurements of myocardial pH in vivo. *Biochemical and Biophysical Research Communications*, **1988**, 151, 70-7	3.4	48
221	Magnetic field and temperature induced line broadening in the hyperfine-shifted proton resonances of myoglobin and hemoglobin. *Journal of the American Chemical Society*, **1977**, 99, 1245-50	16.4	48
220	A non-invasive approach to detecting organ rejection by MRI: monitoring the accumulation of immune cells at the transplanted organ. *Current Pharmaceutical Biotechnology*, **2004**, 5, 551-66	2.6	48
219	A novel low oxygen affinity recombinant hemoglobin (alpha96val--> Trp): switching quaternary structure without changing the ligation state. *Journal of Molecular Biology*, **1995**, 248, 867-82	6.5	45
218	Cationic lipid-mediated co-transfection of insect cells. *Nucleic Acids Research*, **1990**, 18, 4033	20.1	45
217	Nuclear magnetic resonance studies of hemoglobin: functional state correlations and isotopic enrichment strategies. *CRC Critical Reviews in Biochemistry*, **1975**, 3, 221-87		45
216	Enhanced cellular uptake and long-term retention of chitosan-modified iron-oxide nanoparticles for MRI-based cell tracking. *International Journal of Nanomedicine*, **2012**, 7, 4613-23	7.3	44
215	A novel approach with magnetic resonance imaging used for the detection of lung allograft rejection. *Journal of Thoracic and Cardiovascular Surgery*, **2000**, 120, 923-34	1.5	44
214	Ligand binding properties and structural studies of recombinant and chemically modified hemoglobins altered at beta 93 cysteine. *Biochemistry*, **2002**, 41, 11901-13	3.2	43
213	A Fatty Acid-Inspired Tetherable Initiator for Surface-Initiated Atom Transfer Radical Polymerization. *Chemistry of Materials*, **2017**, 29, 4963-4969	9.6	42
212	A new approach to reduce toxicities and to improve bioavailabilities of platinum-containing anti-cancer nanodrugs. *Scientific Reports*, **2015**, 5, 10881	4.9	42
211	A proton nuclear Overhauser effect investigation of the subunit interfaces in human normal adult hemoglobin. *BBA - Proteins and Proteomics*, **1987**, 914, 40-8		42
210	Preparation and proton nuclear magnetic resonance investigation of cross-linked mixed valency hybrid hemoglobins: models for partially oxygenated species. *Biochemistry*, **1982**, 21, 6280-7	3.2	42
209	Hemoglobin site-mutants reveal dynamical role of interhelical H-bonds in the allosteric pathway: time-resolved UV resonance Raman evidence for intra-dimer coupling. *Journal of Molecular Biology*, **2004**, 340, 857-68	6.5	41
208	High-resolution cardiovascular MRI by integrating parallel imaging with low-rank and sparse modeling. *IEEE Transactions on Biomedical Engineering*, **2013**, 60, 3083-92	5	40

207	Magnetic resonance imaging assessment of macrophage accumulation in mouse brain after experimental traumatic brain injury. *Journal of Neurotrauma*, **2009**, 26, 1509-19	5.4	40
206	Nuclear magnetic resonance studies of haemoglobin M Milwaukee. *Nature: New Biology*, **1972**, 237, 263-4		40
205	Effects of substitutions of lysine and aspartic acid for asparagine at beta 108 and of tryptophan for valine at alpha 96 on the structural and functional properties of human normal adult hemoglobin: roles of alpha 1 beta 1 and alpha 1 beta 2 subunit interfaces in the cooperative oxygenation process. *Biochemistry*, **1999**, 38, 8751-61	3.2	39
204	Proton nuclear magnetic resonance studies of hemoglobin M Milwaukee and their implications concerning the mechanism of cooperative oxygenation of hemoglobin. *Biochemistry*, **1977**, 16, 1452-62	3.2	39
203	INTERACTIONS OF BOVINE CASEINS WITH DIVALENT CATIONS. *Journal of the American Chemical Society*, **1965**, 87, 889-92	16.4	39
202	A spin-label study of energy-coupled active transport in Escherichia coli membrane vesicles. *Biochemistry*, **1974**, 13, 5210-4	3.2	38
201	Proton magnetic resonance study of high- and low-spin hemin derivatives. *Biochemistry*, **1971**, 10, 2237-46	3.2	38
200	Membrane-bound D-lactate dehydrogenase from Escherichia coli: purification and properties. *Biochemistry*, **1979**, 18, 312-6	3.2	37
199	A new nano-sized iron oxide particle with high sensitivity for cellular magnetic resonance imaging. *Molecular Imaging and Biology*, **2011**, 13, 825-39	3.8	36
198	Fluorine-19 nuclear magnetic resonance study of 5-fluorotryptophan-labeled histidine-binding protein J of Salmonella typhimurium. *Journal of Molecular Biology*, **1984**, 179, 729-43	6.5	36
197	Proton nuclear magnetic resonance and biochemical studies of oxygenation of human adult hemoglobin in deuterium oxide. *Biochemistry*, **1979**, 18, 5238-47	3.2	36
196	Quaternary structure of carbonmonoxyhemoglobins in solution: structural changes induced by the allosteric effector inositol hexaphosphate. *Biochemistry*, **2006**, 45, 5140-8	3.2	35
195	NMR investigation of the dynamics of tryptophan side-chains in hemoglobins. *Journal of Molecular Biology*, **2002**, 321, 863-78	6.5	35
194	Proton nuclear magnetic resonance studies of hemoglobins Osler (beta145HC2 Tyr replaced by Asp) and McKee Rocks (beta145HC2 Tyr replaced by term): an assignment for an important tertiary structural probe in hemoglobin. *Biochemistry*, **1978**, 17, 795-9	3.2	35
193	Nuclear magnetic resonance studies of hemoglobins. 8. Evidence for preferential ligand binding to chains within deoxyhemoglobins. *Biochemical and Biophysical Research Communications*, **1971**, 45, 22-6	3.4	35
192	The stabilization of horse ferrihemoglobin to acid denaturation by combination with ligands. *Biochemistry*, **1963**, 2, 256-66	3.2	35
191	Dynamics of allostery in hemoglobin: roles of the penultimate tyrosine H bonds. *Journal of Molecular Biology*, **2006**, 356, 335-53	6.5	34
190	Effects of amino acid substitutions at beta 131 on the structure and properties of hemoglobin: evidence for communication between alpha 1 beta 1- and alpha 1 beta 2-subunit interfaces. *Biochemistry*, **2002**, 41, 5644-55	3.2	33

189	Site-specific incorporation of 5-fluorotryptophan as a probe of the structure and function of the membrane-bound D-lactate dehydrogenase of Escherichia coli: a 19F nuclear magnetic resonance study. *Biochemistry*, **1990**, 29, 3256-62	3.2	33
188	Roles of the beta 146 histidyl residue in the molecular basis of the Bohr effect of hemoglobin: a proton nuclear magnetic resonance study. *Biochemistry*, **1991**, 30, 1865-77	3.2	33
187	Proton nuclear magnetic resonance investigation of hemoglobins. *Methods in Enzymology*, **1981**, 76, 275-312	1.7	33
186	Murine orthostatic response during prolonged vertical studies: effect on cerebral blood flow measured by arterial spin-labeled MRI. *Magnetic Resonance in Medicine*, **2005**, 54, 798-806	4.4	32
185	MRI assessment of cerebral blood flow after experimental traumatic brain injury combined with hemorrhagic shock in mice. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 129-36	7.3	31
184	Magnetic resonance imaging investigation of macrophages in acute cardiac allograft rejection after heart transplantation. *Circulation: Cardiovascular Imaging*, **2013**, 6, 965-73	3.9	31
183	Assessment of role of beta 146-histidyl and other histidyl residues in the Bohr effect of human normal adult hemoglobin. *Biochemistry*, **1986**, 25, 1706-16	3.2	31
182	Nuclear magnetic resonance studies of hemoglobins. *Journal of Molecular Biology*, **1969**, 40, 311-3	6.5	31
181	A New Method for Preparing Mesenchymal Stem Cells and Labeling with Ferumoxytol for Cell Tracking by MRI. *Scientific Reports*, **2016**, 6, 26271	4.9	30
180	Determination of the solution-bound conformation of an amino acid binding protein by NMR paramagnetic relaxation enhancement: use of a single flexible paramagnetic probe with improved estimation of its sampling space. *Journal of the American Chemical Society*, **2009**, 131, 9532-7	16.4	30
179	Sensitive and automated detection of iron-oxide-labeled cells using phase image cross-correlation analysis. *Magnetic Resonance Imaging*, **2008**, 26, 618-28	3.3	30
178	Membrane-bound D-lactate dehydrogenase of Escherichia coli: a model for protein interactions in membranes. *BBA - Biomembranes*, **1989**, 988, 173-84		30
177	Proton nuclear magnetic resonance investigation of cross-linked asymmetrically modified hemoglobins: influence of the salt bridges on tertiary and quaternary structures of hemoglobin. *Biochemistry*, **1984**, 23, 2492-9	3.2	30
176	High-resolution proton nuclear magnetic resonance studies of sickle cell hemoglobin. *Biochemistry*, **1975**, 14, 3424-30	3.2	30
175	Characterization of the effects of adenosine receptor agonists on cerebral blood flow in uninjured and traumatically injured rat brain using continuous arterial spin-labeled magnetic resonance imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, 1596-612	7.3	29
174	Distal ligand reactivity and quaternary structure studies of proximally detached hemoglobins. *Biochemistry*, **2001**, 40, 3780-95	3.2	29
173	A carbon-13 nuclear magnetic resonance investigation of the metabolic fluxes associated with glucose metabolism in human erythrocytes. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **1993**, 1182, 162-78	6.9	29
172	A comparative NMR study of the polypeptide backbone dynamics of hemoglobin in the deoxy and carbonmonoxy forms. *Biochemistry*, **2007**, 46, 6795-803	3.2	28

171	Physical-chemical studies of phospholipids and poly (amino acids) interactions. *Biochemistry*, **1974**, 13, 4375-81	3.2	28
170	Nuclear magnetic resonance and spin-label studies of hemoglobin Kempsey. *Biochemistry*, **1973**, 12, 4212-7	3.2	28
169	Quantitative temporal profiles of penumbra and infarction during permanent middle cerebral artery occlusion in rats. *Translational Stroke Research*, **2010**, 1, 220-9	7.8	27
168	Role of Interhelical H-Bonds (W[illegible]67 and W[illegible]72) in the Hemoglobin Allosteric Reaction Path Evaluated by UV Resonance Raman Spectroscopy of Site-Mutants. *Journal of the American Chemical Society*, **1999**, 121, 11197-11203	16.4	27
167	Real-time cardiac MRI without triggering, gating, or breath holding. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 3381-4	0.9	26
166	Roles of alpha 114 and beta 87 amino acid residues in the polymerization of hemoglobin S: implications for gene therapy. *Journal of Molecular Biology*, **1996**, 263, 475-85	6.5	26
165	Automated detection and characterization of SPIO-labeled cells and capsules using magnetic field perturbations. *Magnetic Resonance in Medicine*, **2012**, 67, 278-89	4.4	25
164	Effector-induced structural fluctuation regulates the ligand affinity of an allosteric protein: binding of inositol hexaphosphate has distinct dynamic consequences for the T and R states of hemoglobin. *Biochemistry*, **2008**, 47, 4907-15	3.2	25
163	MRI of lungs using partial liquid ventilation with water-in-perfluorocarbon emulsions. *Magnetic Resonance in Medicine*, **2002**, 48, 487-92	4.4	25
162	Novel recombinant hemoglobin, rHb (beta N108Q), with low oxygen affinity, high cooperativity, and stability against autoxidation. *Biochemistry*, **2000**, 39, 13719-29	3.2	25
161	Novel water-mediated hydrogen bonds as the structural basis for the low oxygen affinity of the blood substitute candidate rHb(alpha 96Val-->Trp). *Biochemistry*, **1998**, 37, 9258-65	3.2	25
160	Recombinant hemoglobin(alpha 29leucine --> phenylalanine, alpha 96valine --> tryptophan, beta 108asparagine --> lysine) exhibits low oxygen affinity and high cooperativity combined with resistance to autoxidation. *Biochemistry*, **1999**, 38, 13433-42	3.2	25
159	Automated grading of renal cell carcinoma using whole slide imaging. *Journal of Pathology Informatics*, **2014**, 5, 23	4.4	24
158	WAXS studies of the structural diversity of hemoglobin in solution. *Journal of Molecular Biology*, **2011**, 408, 909-21	6.5	24
157	Effects of anions on the molecular basis of the Bohr effect of hemoglobin. *Biophysical Chemistry*, **1990**, 37, 313-22	3.5	24
156	Effect of inducible nitric oxide synthase on cerebral blood flow after experimental traumatic brain injury in mice. *Journal of Neurotrauma*, **2008**, 25, 299-310	5.4	23
155	1H and 31P nuclear magnetic resonance investigation of the interaction between 2,3-diphosphoglycerate and human normal adult hemoglobin. *Biochemistry*, **1990**, 29, 3785-92	3.2	23
154	Biochemical and biophysical studies on the interaction of a membrane-bound enzyme, D-lactate dehydrogenase from Escherichia coli, with phospholipids. *Biochemistry*, **1979**, 18, 317-24	3.2	23

153	Nuclear magnetic resonance studies of hemoglobin. IV. The structure-function relationship of human adult hemoglobins A and Chesapeake and its implication to the nature of oxygenation of hemoglobin. *Biochemical and Biophysical Research Communications*, **1970**, 38, 779-86	3.4	23
152	The Polymerization of Bovine □Casein B. *Journal of Biological Chemistry*, **1967**, 242, 551-553	5.4	23
151	Insights into the solution structure of human deoxyhemoglobin in the absence and presence of an allosteric effector. *Biochemistry*, **2007**, 46, 9973-80	3.2	22
150	A general strategy for the assignment of aliphatic side-chain resonances of uniformly 13C,15N-labeled large proteins. *Journal of the American Chemical Society*, **2005**, 127, 11920-1	16.4	22
149	Contributions of asparagine at alpha 97 to the cooperative oxygenation process of hemoglobin. *Biochemistry*, **1996**, 35, 6620-7	3.2	22
148	Proton nuclear magnetic resonance studies on glutamine-binding protein from Escherichia coli. Formation of intermolecular and intramolecular hydrogen bonds upon ligand binding. *Journal of Molecular Biology*, **1989**, 210, 849-57	6.5	22
147	A biophysical investigation of recombinant hemoglobins with aromatic B10 mutations in the distal heme pockets. *Biochemistry*, **2005**, 44, 7207-17	3.2	21
146	A proton nuclear magnetic resonance investigation of the anion Bohr effect of human normal adult hemoglobin. *Biochemistry*, **1989**, 28, 5298-306	3.2	21
145	Nuclear magnetic resonance studies of hemoglobiss. V. The heme proton spectra of human deoxyhemoglobins A, F, Zurich, and Chesapeake. *Biochemical and Biophysical Research Communications*, **1970**, 40, 343-9	3.4	21
144	Oxygen equilibrium studies of cross-linked asymmetrical cyanomet valency hybrid hemoglobins: models for partially oxygenated species. *Biochemistry*, **1987**, 26, 2149-55	3.2	20
143	Phosphorus Nuclear Magnetic Resonance Study of Phosphoproteins. *Journal of Biological Chemistry* , **1966**, 241, 3002-3007	5.4	20
142	Combining perfluorocarbon and superparamagnetic iron-oxide cell labeling for improved and expanded applications of cellular MRI. *Magnetic Resonance in Medicine*, **2015**, 73, 367-75	4.4	19
141	Mapping stain distribution in pathology slides using whole slide imaging. *Journal of Pathology Informatics*, **2014**, 5, 1	4.4	19
140	MRI detection of tumor in mouse lung using partial liquid ventilation with a perfluorocarbon-in-water emulsion. *Magnetic Resonance Imaging*, **2004**, 22, 645-52	3.3	19
139	High-resolution proton nuclear magnetic resonance studies of histidine-binding proteins J of Salmonella typhimurium. An investigation of substrate and membrane interaction sites. *Biochemistry*, **1979**, 18, 566-73	3.2	19
138	Cellular and Functional Imaging of Cardiac Transplant Rejection. *Current Cardiovascular Imaging Reports*, **2011**, 4, 50-62	0.7	18
137	Measurement of fluxes through the pentose phosphate pathway in erythrocytes from individuals with sickle cell anemia by carbon-13 nuclear magnetic resonance spectroscopy. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **1993**, 1182, 179-88	6.9	18
136	PMR studies of the substrate induced conformational change of glutamine binding protein from E. coli. *Biochemical and Biophysical Research Communications*, **1973**, 53, 18-23	3.4	18

135	Cerebral blood flow changes after brain injury in human amyloid-beta knock-in mice. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 826-33	7.3	17
134	Real-time cardiac MRI using prior spatial-spectral information. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 4383-6	0.9	17
133	Assessment of the effect of 2-chloroadenosine in normal rat brain using spin-labeled MRI measurement of perfusion. *Magnetic Resonance in Medicine*, **2001**, 45, 924-9	4.4	17
132	An additional H-bond in the alpha 1 beta 2 interface as the structural basis for the low oxygen affinity and high cooperativity of a novel recombinant hemoglobin (beta L105W). *Biochemistry*, **2000**, 39, 13708-18	3.2	17
131	31P-NMR spectroscopy of perifused rat hepatocytes immobilized in agarose threads: application to chemical-induced hepatotoxicity. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **1992**, 1139, 105-14	6.9	17
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