

# Chien Ho

## List of Publications by Year in descending order

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300  
papers

12,795  
citations

20797

60  
h-index

34964

98  
g-index

310  
all docs

310  
docs citations

310  
times ranked

8971  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 1852-1857.	3.3	599
2	Enzymatic function of hemoglobin as a nitrite reductase that produces NO under allosteric control. Journal of Clinical Investigation, 2005, 115, 2099-2107.	3.9	450
3	Hypoxia, red blood cells, and nitrite regulate NO-dependent hypoxic vasodilation. Blood, 2006, 107, 566-574.	0.6	444
4	Influence of globin structure on the state of the heme. I. Human deoxyhemoglobin. Biochemistry, 1974, 13, 2163-2173.	1.2	307
5	Detection of Single Mammalian Cells by High-Resolution Magnetic Resonance Imaging. Biophysical Journal, 1999, 76, 103-109.	0.2	268
6	Human Neuroglobin Functions as a Redox-regulated Nitrite Reductase. Journal of Biological Chemistry, 2011, 286, 18277-18289.	1.6	245
7	Influence of globin structure on the state of the heme. III. Changes in heme spectra accompanying allosteric transitions in methemoglobin and their implications for heme-heme interaction. Biochemistry, 1974, 13, 2187-2200.	1.2	205
8	STACS: new active contour scheme for cardiac MR image segmentation. IEEE Transactions on Medical Imaging, 2005, 24, 593-603.	5.4	205
9	Intracellular labeling of T-cells with superparamagnetic contrast agents. Magnetic Resonance in Medicine, 1993, 30, 617-625.	1.9	201
10	Quaternary structure of hemoglobin in solution. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 517-520.	3.3	197
11	Attenuation of Myocardial Ischemia/Reperfusion Injury by Superinduction of Inducible Nitric Oxide Synthase. Circulation, 2000, 101, 2742-2748.	1.6	187
12	Severe Controlled Cortical Impact in Rats: Assessment of Cerebral Edema, Blood Flow, and Contusion Volume. Journal of Neurotrauma, 1995, 12, 1015-1025.	1.7	183
13	In Vivo Dynamic MRI Tracking of Rat T-Cells Labeled with Superparamagnetic Iron-Oxide Particles. Magnetic Resonance in Medicine, 1995, 33, 200-208.	1.9	170
14	Production of unmodified human adult hemoglobin in Escherichia coli.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 8108-8112.	3.3	163
15	Macrophage Accumulation Associated With Rat Cardiac Allograft Rejection Detected by Magnetic Resonance Imaging With Ultrasmall Superparamagnetic Iron Oxide Particles. Circulation, 2001, 104, 934-938.	1.6	152
16	The Structure~Function Relationship of Hemoglobin in Solution at Atomic Resolution. Chemical Reviews, 2004, 104, 1219-1230.	23.0	150
17	Cerebral perfusion during anesthesia with fentanyl, isoflurane, or pentobarbital in normal rats studied by arterial spin-labeled MRI. Magnetic Resonance in Medicine, 2001, 46, 202-206.	1.9	147
18	Accelerated MR parameter mapping with low~rank and sparsity constraints. Magnetic Resonance in Medicine, 2015, 74, 489-498.	1.9	140

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19	New Look at Hemoglobin Allostery. <i>Chemical Reviews</i> , 2015, 115, 1702-1724.	23.0	132
20	Proton nuclear magnetic resonance study of the quaternary structure of human hemoglobins in water. <i>Biochemistry</i> , 1975, 14, 2526-2535.	1.2	128
21	Interactions between the quaternary structure of the globin and the spin state of the heme in ferric mixed spin derivatives of hemoglobin. <i>Biochemistry</i> , 1978, 17, 3640-3652.	1.2	122
22	The Kinetics of the Hydration of Carbon Dioxide at 25Å°. <i>Journal of Biological Chemistry</i> , 1963, 238, 3499-3501.	1.6	117
23	<sup>19</sup> F MRI detection of acute allograft rejection with in vivo perfluorocarbon labeling of immune cells. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1144-1153.	1.9	108
24	The crystal structure of D-lactate dehydrogenase, a peripheral membrane respiratory enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 9413-9418.	3.3	100
25	Conjugation of Multiple Copies of Polyethylene Glycol to Hemoglobin Facilitated Through Thiolation: Influence on Hemoglobin Structure and Function. <i>Protein Journal</i> , 2005, 24, 133-146.	0.7	99
26	Proton Nuclear Magnetic Resonance Studies On Hemoglobin: Cooperative Interactions And Partially Ligated Intermediates. <i>Advances in Protein Chemistry</i> , 1992, 43, 153-312.	4.4	92
27	Automated probabilistic method for assigning backbone resonances of (13C,15N)-labeled proteins. <i>Journal of Biomolecular NMR</i> , 1997, 9, 151-166.	1.6	91
28	Proton nuclear magnetic resonance studies of hemoglobins M Boston (.alpha.58E7 His .fwdarw. Tyr) and M Milwaukee (.beta.67E11 Val .fwdarw. 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. <i>Biochemistry</i> , 1980, 19, 5196-5202.	1.2	87
29	Incorporation of fluorotryptophans into proteins of Escherichia coli. <i>Biochemistry</i> , 1975, 14, 3035-3040.	1.2	86
30	Substitutions in woolly mammoth hemoglobin confer biochemical properties adaptive for cold tolerance. <i>Nature Genetics</i> , 2010, 42, 536-540.	9.4	86
31	Magnetic resonance imaging detection of rat renal transplant rejection by monitoring macrophage infiltration. <i>Kidney International</i> , 2000, 58, 1300-1310.	2.6	84
32	Effects of ligands and organic phosphates on functional properties of human adult hemoglobin. <i>Biochemistry</i> , 1974, 13, 3653-3661.	1.2	83
33	Cerebral Blood Flow at One Year after Controlled Cortical Impact in Rats: Assessment by Magnetic Resonance Imaging. <i>Journal of Neurotrauma</i> , 2002, 19, 1029-1037.	1.7	82
34	Biliverdin Administration Prevents the Formation of Intimal Hyperplasia Induced by Vascular Injury. <i>Circulation</i> , 2005, 112, 587-591.	1.6	82
35	How much do we know about the Bohr effect of hemoglobin?. <i>Biochemistry</i> , 1987, 26, 6299-6305.	1.2	81
36	Production of human normal adult and fetal hemoglobins in Escherichia coli. <i>Protein Engineering, Design and Selection</i> , 1997, 10, 1085-1097.	1.0	81

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37	Nuclear magnetic resonance studies of hemoglobins. <i>Journal of Molecular Biology</i> , 1971, 60, 101-111.	2.0	79
38	Role of the .beta.146 histidyl residue in the alkaline Bohr effect of hemoglobin. <i>Biochemistry</i> , 1980, 19, 1043-1052.	1.2	78
39	Assessment of Cerebral Blood Flow and CO2 Reactivity After Controlled Cortical Impact By Perfusion Magnetic Resonance Imaging Using Arterial Spin-Labeling in Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1997, 17, 865-874.	2.4	78
40	Magnetic Resonance Imaging Assessment of Regional Cerebral Blood Flow after Asphyxial Cardiac Arrest in Immature Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 197-205.	2.4	78
41	Effects of anions and ligands on the tertiary structure around ligand binding site in human adult hemoglobin. <i>Biochemistry</i> , 1973, 12, 134-139.	1.2	76
42	A test of the role of the proximal histidines in the Perutz model for cooperativity in haemoglobin. <i>Nature Structural and Molecular Biology</i> , 1997, 4, 78-83.	3.6	76
43	Angiotensin-Converting Enzyme Inhibitor Preserves p21 and Endothelial Nitric Oxide Synthase Expression in Monocrotaline-Induced Pulmonary Arterial Hypertension in Rats. <i>Circulation</i> , 2001, 104, 945-950.	1.6	75
44	Characterization of the lipid-carrier involved in the synthesis of enterobacterial common antigen (ECA) and identification of a novel phosphoglyceride in a mutant of <i>Salmonella typhimurium</i> defective in ECA synthesis. <i>Glycobiology</i> , 1998, 8, 557-567.	1.3	73
45	Perfusion quantitation in transplanted rat kidney by MRI with arterial spin labeling. <i>Kidney International</i> , 1998, 53, 1783-1791.	2.6	71
46	NMR reveals hydrogen bonds between oxygen and distal histidines in oxyhemoglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 10354-10358.	3.3	71
47	Early perfusion after controlled cortical impact in rats: Quantification by arterial spin-labeled MRI and the influence of spin-lattice relaxation time heterogeneity. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 673-681.	1.9	69
48	In vivo detection of acute rat renal allograft rejection by MRI with USPIO particles. <i>Kidney International</i> , 2002, 61, 1124-1135.	2.6	69
49	Tracking T-cells in vivo with a new nano-sized MRI contrast agent. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 1345-1354.	1.7	68
50	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. <i>Circulation</i> , 2008, 118, 149-156.	1.6	66
51	Contribution of Surface Histidyl Residues in the $\hat{\pm}$ -Chain to the Bohr Effect of Human Normal Adult Hemoglobin: Roles of Global Electrostatic Effects. <i>Biochemistry</i> , 1997, 36, 6663-6673.	1.2	65
52	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. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3447-3453.	1.1	65
53	A proton nuclear magnetic resonance investigation of histidyl residues in human normal adult hemoglobin. <i>Biochemistry</i> , 1982, 21, 5031-5043.	1.2	64
54	Superparamagnetic iron oxide particles transactivator protein-fluorescein isothiocyanate particle labeling for in vivo magnetic resonance imaging detection of cell migration: uptake and durability. <i>Transplantation</i> , 2003, 76, 1043-1046.	0.5	64

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55	Interactions of Bovine $\beta$ -Casein with Small Ions. <i>Journal of the American Chemical Society</i> , 1965, 87, 110-117.	6.6	63
56	Proton nuclear Overhauser effect investigation of the heme pockets in ligated hemoglobin: conformational differences between oxy and carbonmonoxy forms. <i>Biochemistry</i> , 1985, 24, 3398-3407.	1.2	63
57	Phosphorus nuclear magnetic resonance studies of phosphoproteins and phosphorylated molecules. II. Chemical nature of phosphorus atoms in $\beta$ -casein B and phosphovitin. <i>Biochemistry</i> , 1969, 8, 2074-2082.	1.2	62
58	Fluorine-19 nuclear magnetic resonance studies of lipid phase transitions in model and biological membranes. <i>Biochemistry</i> , 1978, 17, 3023-3038.	1.2	62
59	Assessment of Roles of Surface Histidyl Residues in the Molecular Basis of the Bohr Effect and of $^{143}\text{Nd}$ Histidine in the Binding of 2,3-Bisphosphoglycerate in Human Normal Adult Hemoglobin. <i>Biochemistry</i> , 1999, 38, 13423-13432.	1.2	62
60	USPIO-enhanced dynamic MRI: Evaluation of normal and transplanted rat kidneys. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 1152-1163.	1.9	62
61	Nuclear magnetic resonance and molecular genetic studies of the membrane-bound D-lactate dehydrogenase of <i>Escherichia coli</i> . <i>Biochemistry</i> , 1987, 26, 549-556.	1.2	61
62	Noninvasive Evaluation of Cardiac Allograft Rejection by Cellular and Functional Cardiac Magnetic Resonance. <i>JACC: Cardiovascular Imaging</i> , 2009, 2, 731-741.	2.3	61
63	Normal and Transplanted Rat Kidneys: Diffusion MR Imaging at 7 T. <i>Radiology</i> , 2004, 231, 702-709.	3.6	60
64	An Investigation of the Ligand-Binding Site of the Glutamine-Binding Protein of <i>Escherichia coli</i> Using Rotational-Echo Double-Resonance NMR. <i>Biochemistry</i> , 1994, 33, 8651-8661.	1.2	59
65	Chain-Selective Isotopic Labeling for NMR Studies of Large Multimeric Proteins: Application to Hemoglobin. <i>Biophysical Journal</i> , 2000, 79, 1146-1154.	0.2	59
66	MRI detection of macrophages labeled using micrometer-sized iron oxide particles. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 1210-1218.	1.9	58
67	Ligand-Free Open $\rightarrow$ Closed Transitions of Periplasmic Binding Proteins: The Case of Glutamine-Binding Protein. <i>Biochemistry</i> , 2010, 49, 1893-1902.	1.2	58
68	Nuclear magnetic resonance and fluorescence studies of substrate-induced conformational changes of histidine-binding protein J of <i>Salmonella typhimurium</i> . <i>Biochemistry</i> , 1977, 16, 1443-1451.	1.2	56
69	Paramagnetic proton nuclear magnetic resonance shifts of metmyoglobin, methemoglobin, and hemin derivatives. <i>Journal of the American Chemical Society</i> , 1968, 90, 2700-2701.	6.6	55
70	A New Approach to Reduce Toxicities and to Improve Bioavailabilities of Platinum-Containing Anti-Cancer Nanodrugs. <i>Scientific Reports</i> , 2015, 5, 10881.	1.6	55
71	A Fatty Acid-Inspired Tetherable Initiator for Surface-Initiated Atom Transfer Radical Polymerization. <i>Chemistry of Materials</i> , 2017, 29, 4963-4969.	3.2	55
72	Magnetic field and temperature induced line broadening in the hyperfine-shifted proton resonances of myoglobin and hemoglobin. <i>Journal of the American Chemical Society</i> , 1977, 99, 1245-1250.	6.6	54

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73	Cationic lipid-mediated co-transfection of insect cells. <i>Nucleic Acids Research</i> , 1990, 18, 4033-4033.	6.5	54
74	Restoring allostereism with compensatory mutations in hemoglobin.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 11547-11551.	3.3	54
75	Enhanced cellular uptake and long-term retention of chitosan-modified iron-oxide nanoparticles for MRI-based cell tracking. <i>International Journal of Nanomedicine</i> , 2012, 7, 4613.	3.3	53
76	Nuclear Magnetic Resonance Studies Of Hemoglobin: Functional State Correlations And Isotopic Enrichment Strategie. <i>CRC Critical Reviews in Biochemistry</i> , 1975, 3, 221-287.	2.0	52
77	A Non-Invasive Approach to Detecting Organ Rejection by MRI: Monitoring the Accumulation of Immune Cells At the Transplanted Organ. <i>Current Pharmaceutical Biotechnology</i> , 2004, 5, 551-566.	0.9	51
78	<sup>31</sup> P NMR measurements of myocardial pH invivo. <i>Biochemical and Biophysical Research Communications</i> , 1988, 151, 70-77.	1.0	50
79	Quaternary Structure Sensitive Tyrosine Interactions in Hemoglobin: A UV Resonance Raman Study of the Double Mutant rHb(Î²99Aspâ†’Asn, Î±42Tyrâ†’Asp)â€¢. <i>Biochemistry</i> , 1997, 36, 6197-6206.	1.2	50
80	Ligand Binding Properties and Structural Studies of Recombinant and Chemically Modified Hemoglobins Altered at Î²93 Cysteineâ€¢. <i>Biochemistry</i> , 2002, 41, 11901-11913.	1.2	50
81	High-Resolution Cardiovascular MRI by Integrating Parallel Imaging With Low-Rank and Sparse Modeling. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 3083-3092.	2.5	50
82	A proton nuclear Overhauser effect investigation of the subunit interfaces in human normal adult hemoglobin. <i>BBA - Proteins and Proteomics</i> , 1987, 914, 40-48.	2.1	49
83	A Novel Low Oxygen Affinity Recombinant Hemoglobin (Î±96Valâ†’Trp): Switching Quaternary Structure Without Changing the Ligation State. <i>Journal of Molecular Biology</i> , 1995, 248, 867-882.	2.0	49
84	Interactions of Bovine Caseins with Divalent Cations1. <i>Journal of the American Chemical Society</i> , 1965, 87, 889-892.	6.6	47
85	A novel approach with magnetic resonance imaging used for the detection of lung allograft rejection. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2000, 120, 923-934.	0.4	47
86	Membrane-bound D-lactate dehydrogenase from <i>Escherichia coli</i> : purification and properties. <i>Biochemistry</i> , 1979, 18, 312-316.	1.2	46
87	Preparation and proton nuclear magnetic resonance investigation of cross-linked mixed valency hybrid hemoglobins: models for partially oxygenated species. <i>Biochemistry</i> , 1982, 21, 6280-6287.	1.2	46
88	Nuclear Magnetic Resonance Studies of Haemoglobin M Milwaukee. <i>Nature: New Biology</i> , 1972, 237, 263-264.	4.5	45
89	Proton nuclear magnetic resonance studies of hemoglobin M Milwaukee and their implications concerning the mechanism of cooperative oxygenation of hemoglobin. <i>Biochemistry</i> , 1977, 16, 1452-1462.	1.2	45
90	Magnetic Resonance Imaging Assessment of Macrophage Accumulation in Mouse Brain after Experimental Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2009, 26, 1509-1519.	1.7	45

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91	Proton nuclear magnetic resonance and biochemical studies of oxygenation of human adult hemoglobin in deuterium oxide. <i>Biochemistry</i> , 1979, 18, 5238-5247.	1.2	44
92	A New Nano-sized Iron Oxide Particle with High Sensitivity for Cellular Magnetic Resonance Imaging. <i>Molecular Imaging and Biology</i> , 2011, 13, 825-839.	1.3	44
93	The Stabilization of Horse Ferrihemoglobin to Acid Denaturation by Combination with Ligands*. <i>Biochemistry</i> , 1963, 2, 256-266.	1.2	43
94	Effects of Substitutions of Lysine and Aspartic Acid for Asparagine at $\hat{\text{I}}^{2108}$ and of Tryptophan for Valine at $\hat{\text{I}}^{\pm 96}$ on the Structural and Functional Properties of Human Normal Adult Hemoglobin: Roles of $\hat{\text{I}}^{\pm 121}$ and $\hat{\text{I}}^{\pm 122}$ Subunit Interfaces in the Cooperative Oxygenation Process. <i>Biochemistry</i> , 1999, 38, 8751-8761.	1.2	43
95	A New Method for Preparing Mesenchymal Stem Cells and Labeling with Ferumoxytol for Cell Tracking by MRI. <i>Scientific Reports</i> , 2016, 6, 26271.	1.6	43
96	Proton magnetic resonance study of high- and low-spin hemin derivatives. <i>Biochemistry</i> , 1971, 10, 2237-2246.	1.2	42
97	[ $\hat{\text{I}}^{18}$ ]Proton nuclear magnetic resonance investigation of hemoglobins. <i>Methods in Enzymology</i> , 1981, 76, 275-312.	0.4	42
98	NMR Investigation of the Dynamics of Tryptophan Side-chains in Hemoglobins. <i>Journal of Molecular Biology</i> , 2002, 321, 863-878.	2.0	42
99	Hemoglobin Site-mutants Reveal Dynamical Role of Interhelical H-bonds in the Allosteric Pathway: Time-resolved UV Resonance Raman Evidence for Intra-dimer Coupling. <i>Journal of Molecular Biology</i> , 2004, 340, 857-868.	2.0	41
100	Nuclear magnetic resonance studies of hemoglobins. VIII. Evidence for preferential ligand binding to $\hat{\text{I}}^2$ chains within deoxyhemoglobins. <i>Biochemical and Biophysical Research Communications</i> , 1971, 45, 22-26.	1.0	40
101	Fluorine-19 nuclear magnetic resonance study of 5-fluorotryptophan-labeled histidine-binding protein J of <i>Salmonella typhimurium</i> . <i>Journal of Molecular Biology</i> , 1984, 179, 729-743.	2.0	40
102	Roles of the .beta.146 histidyl residue in the molecular basis of the Bohr effect of hemoglobin: a proton nuclear magnetic resonance study. <i>Biochemistry</i> , 1991, 30, 1865-1877.	1.2	39
103	Quaternary Structure of Carbonmonoxyhemoglobins in Solution: Structural Changes Induced by the Allosteric Effector Inositol Hexaphosphate. <i>Biochemistry</i> , 2006, 45, 5140-5148.	1.2	39
104	Spin-label study of energy-coupled active transport in <i>Escherichia coli</i> membrane vesicles. <i>Biochemistry</i> , 1974, 13, 5210-5214.	1.2	38
105	Proton nuclear magnetic resonance studies of hemoglobins Osler ( $\hat{\text{I}}^{2145}\text{HC}2 \text{ Tyr } \hat{\text{I}}^{\text{Asp}}$ ) and McKees Rocks ( $\hat{\text{I}}^{2145}\text{HC}2 \text{ Tyr } \hat{\text{I}}^{\text{Term}}$ ): an assignment for an important tertiary structural probe in hemoglobin. <i>Biochemistry</i> , 1978, 17, 795-799.	1.2	38
106	Mri Assessment of Cerebral Blood Flow after Experimental Traumatic Brain Injury Combined with Hemorrhagic Shock in Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 129-136.	2.4	38
107	Automated grading of renal cell carcinoma using whole slide imaging. <i>Journal of Pathology Informatics</i> , 2014, 5, 23.	0.8	38
108	Site-specific incorporation of 5-fluorotryptophan as a probe of the structure and function of the membrane-bound D-lactate dehydrogenase of <i>Escherichia coli</i> : a fluorine-19 nuclear magnetic resonance study. <i>Biochemistry</i> , 1990, 29, 3256-3262.	1.2	37



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109	Effects of Amino Acid Substitutions at $\hat{I}^2131$ on the Structure and Properties of Hemoglobin: Evidence for Communication between $\hat{I}^11^21$ - and $\hat{I}^11^22$ -Subunit Interfaces. <i>Biochemistry</i> , 2002, 41, 5644-5655.	1.2	37
110	Dynamics of Allostery in Hemoglobin: Roles of the Penultimate Tyrosine H bonds. <i>Journal of Molecular Biology</i> , 2006, 356, 335-353.	2.0	37
111	Quantitative Temporal Profiles of Penumbra and Infarction During Permanent Middle Cerebral Artery Occlusion in Rats. <i>Translational Stroke Research</i> , 2010, 1, 220-229.	2.3	36
112	Magnetic Resonance Imaging Investigation of Macrophages in Acute Cardiac Allograft Rejection After Heart Transplantation. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 965-973.	1.3	36
113	A carbon-13 nuclear magnetic resonance investigation of the metabolic fluxes associated with glucose metabolism in human erythrocytes. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1993, 1182, 162-178.	1.8	34
114	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. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 1596-1612.	2.4	34
115	Nuclear magnetic resonance studies of hemoglobins. <i>Journal of Molecular Biology</i> , 1969, 40, 311-313.	2.0	33
116	Murine orthostatic response during prolonged vertical studies: Effect on cerebral blood flow measured by arterial spin-labeled MRI. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 798-806.	1.9	33
117	Proton nuclear magnetic resonance investigation of crosslinked asymmetrically modified hemoglobins: influence of the salt bridges on tertiary and quaternary structures of hemoglobin. <i>Biochemistry</i> , 1984, 23, 2492-2499.	1.2	32
118	Real-time cardiac MRI without triggering, gating, or breath holding. , 2008, 2008, 3381-4.		32
119	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. <i>Journal of the American Chemical Society</i> , 2009, 131, 9532-9537.	6.6	32
120	Physical-chemical studies of phospholipids and poly(amino acids) interactions. <i>Biochemistry</i> , 1974, 13, 4375-4381.	1.2	31
121	Assessment of roles of .beta.146-histidyl and other histidyl residues in the Bohr effect of human normal adult hemoglobin. <i>Biochemistry</i> , 1986, 25, 1706-1716.	1.2	31
122	Membrane-bound d-lactate dehydrogenase of <i>Escherichia coli</i> : a model for protein interactions in membranes. <i>BBA - Biomembranes</i> , 1989, 988, 173-184.	7.9	31
123	Novel Recombinant Hemoglobin, rHb ( $\hat{I}^2N108Q$ ), with Low Oxygen Affinity, High Cooperativity, and Stability against Autoxidation. <i>Biochemistry</i> , 2000, 39, 13719-13729.	1.2	31
124	The Polymerization of Bovine $\hat{I}^1$ -Casein B. <i>Journal of Biological Chemistry</i> , 1967, 242, 551-553.	1.6	31
125	High-resolution proton nuclear magnetic resonance studies of sickle cell hemoglobin. <i>Biochemistry</i> , 1975, 14, 3424-3430.	1.2	30
126	Recombinant Hemoglobin( $\hat{I}^129$ Leucine $\hat{I}^1$ Phenylalanine, $\hat{I}^196$ Valine $\hat{I}^1$ Tryptophan, $\hat{I}^2108$ Asparagine $\hat{I}^1$ Lysine) Exhibits Low Oxygen Affinity and High Cooperativity Combined with Resistance to Autoxidation. <i>Biochemistry</i> , 1999, 38, 13433-13442.	1.2	30



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127	Distal Ligand Reactivity and Quaternary Structure Studies of Proximally Detached Hemoglobins. <i>Biochemistry</i> , 2001, 40, 3780-3795.	1.2	30
128	Sensitive and automated detection of iron-oxide-labeled cells using phase image cross-correlation analysis. <i>Magnetic Resonance Imaging</i> , 2008, 26, 618-628.	1.0	30
129	Automated detection and characterization of SPIO-labeled cells and capsules using magnetic field perturbations. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 278-289.	1.9	30
130	Nuclear magnetic resonance and spin-label studies of hemoglobin Kempsey. <i>Biochemistry</i> , 1973, 12, 4212-4217.	1.2	29
131	Roles of $\text{H}114$ and $\text{H}287$ Amino Acid Residues in the Polymerization of Hemoglobin S: Implications for Gene Therapy. <i>Journal of Molecular Biology</i> , 1996, 263, 475-485.	2.0	29
132	Novel Water-Mediated Hydrogen Bonds as the Structural Basis for the Low Oxygen Affinity of the Blood Substitute Candidate rHb( $\text{V}96\text{Val}\rightarrow\text{Trp}$ ). <i>Biochemistry</i> , 1998, 37, 9258-9265.	1.2	29
133	Role of Interhelical H-Bonds ( $\text{W}14\rightarrow\text{T}67$ and $\text{W}15\rightarrow\text{S}72$ ) in the Hemoglobin Allosteric Reaction Path Evaluated by UV Resonance Raman Spectroscopy of Site-Mutants. <i>Journal of the American Chemical Society</i> , 1999, 121, 11197-11203.	6.6	29
134	A Comparative NMR Study of the Polypeptide Backbone Dynamics of Hemoglobin in the Deoxy and Carbonmonoxy Forms. <i>Biochemistry</i> , 2007, 46, 6795-6803.	1.2	29
135	A Biophysical Investigation of Recombinant Hemoglobins with Aromatic B10 Mutations in the Distal Heme Pockets. <i>Biochemistry</i> , 2005, 44, 7207-7217.	1.2	28
136	Effects of anions on the molecular basis of the Bohr effect of hemoglobin. <i>Biophysical Chemistry</i> , 1990, 37, 313-322.	1.5	27
137	MRI of lungs using partial liquid ventilation with water-in-perfluorocarbon emulsions. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 487-492.	1.9	27
138	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. <i>Biochemistry</i> , 2008, 47, 4907-4915.	1.2	27
139	Nuclear magnetic resonance studies of hemoglobin. IV. The structure-function relationship of human adult hemoglobins $\alpha$ and Chesapeake and its implication to the nature of oxygenation of hemoglobin. <i>Biochemical and Biophysical Research Communications</i> , 1970, 38, 779-786.	1.0	26
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