Maurizio Brunori

List of Publications by Year
in descending order

428	15,367	13099 68	38395 95
papers	citations	h-index	g-index

435	435	435	8466
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neuroglobin, nitric oxide, and oxygen: Functional pathways and conformational changes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8483-8488.	7.1	233
2	Nitric oxide moves myoglobin centre stage. Trends in Biochemical Sciences, 2001, 26, 209-210.	7.5	207
3	Molecular Adaptation to Physiological Requirements: The Hemoglobin System of Trout. Current Topics in Cellular Regulation, 1975, 9, 1-39.	9.6	200
4	Complex landscape of protein structural dynamics unveiled by nanosecond Laue crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8704-8709.	7.1	195
5	Nitric oxide, cytochrome-c oxidase and myoglobin. Trends in Biochemical Sciences, 2001, 26, 21-23.	7.5	186
6	Inhibition of Schistosoma mansoni Thioredoxin-glutathione Reductase by Auranofin. Journal of Biological Chemistry, 2009, 284, 28977-28985.	3.4	184
7	The structure of carbonmonoxy neuroglobin reveals a heme-sliding mechanism for control of ligand affinity. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17351-17356.	7.1	182
8	A Novel Type of Nitric-oxide Reductase. Journal of Biological Chemistry, 2002, 277, 25273-25276.	3.4	176
9	The structure of murine neuroglobin: Novel pathways for ligand migration and binding. Proteins: Structure, Function and Bioinformatics, 2004, 56, 85-92.	2.6	170
10	Cavities and packing defects in the structural dynamics of myoglobin. EMBO Reports, 2001, 2, 674-679.	4.5	165
11	Involvement of the hydrophobic patch of azurin in the electron-transfer reactions with cytochrome c551 and nitrite reductase. FEBS Journal, 1990, 194, 109-118.	0.2	160
12	Nitric Oxide and Cytochrome c Oxidase: Mechanisms of Inhibition and NO Degradation. Biochemical and Biophysical Research Communications, 2000, 274, 183-187.	2.1	155
13	Studies on partially reduced mammalian cytochrome oxidase. Reactions with carbon monoxide and oxygen. Biochemical Journal, 1974, 137, 205-215.	3.7	152
14	Aplysia limacina myoglobin. Journal of Molecular Biology, 1989, 205, 529-544.	4.2	143
15	N-terminal arm exchange is observed in the 2.15 Ã... crystal structure of oxidized nitrite reductase from Pseudomonas aeruginosa. Structure, 1997, 5, 1157-1171.	3.3	142
16	On the Mechanism of Inhibition of Cytochrome c Oxidase by Nitric Oxide. Journal of Biological Chemistry, 1996, 271, 33404-33408.	3.4	129
17	Extended Molecular Dynamics Simulation of the Carbon Monoxide Migration in Sperm Whale Myoglobin. Biophysical Journal, 2004, 86, 3855-3862.	0.5	129
18	Studies on the Oxidation-Reduction Potentials of Heme Proteins. Journal of Biological Chemistry, 1964, 239, 907-912.	3.4	126

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19	Formation of Superoxide in the Autoxidation of the Isolated alpha and beta Chains of Human Hemoglobin and Its Involvement in Hemichrome Precipitation. FEBS Journal, 1975, 53, 99-104.	0.2	119
20	Cytochrome oxidase, ligands and electrons. Journal of Inorganic Biochemistry, 2005, 99, 324-336.	3.5	119
21	The Reactions of the Isolated Î± and Î² Chains of Human Hemoglobin with Oxygen and Carbon Monoxide. Journal of Biological Chemistry, 1966, 241, 5238-5243.	3.4	118
22	Extended subnanosecond structural dynamics of myoglobin revealed by Laue crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4924-4929.	7.1	111
23	The cytochrome cbb₃ from Pseudomonas stutzeri displays nitric oxide reductase activity. FEBS Journal, 2001, 268, 6486-6491.	0.2	110
24	The O2-scavenging Flavodiiron Protein in the Human Parasite Giardia intestinalis. Journal of Biological Chemistry, 2008, 283, 4061-4068.	3.4	107
25	Studies on the Relations between Molecular and Functional Properties of Hemoglobin. Journal of Biological Chemistry, 1963, 238, 2950-2957.	3.4	106
26	A new point mutation of the prion protein gene in CreutzfeldtâEJakob disease. Annals of Neurology, 1993, 34, 802-807.	5.3	104
27	Demonstration of Long-Range Interactions in a PDZ Domain by NMR, Kinetics, and Protein Engineering. Structure, 2006, 14, 1801-1809.	3.3	103
28	Moonlighting by Different Stressors: Crystal Structure of the Chaperone Species of a 2-Cys Peroxiredoxin. Structure, 2012, 20, 429-439.	3.3	102
29	Cytochrome-c oxidase. Subunit structure and proton pumping. FEBS Journal, 1987, 169, 1-8.	0.2	101
30	Structure and function of a molecular machine: cytochrome c oxidase. Biophysical Chemistry, 1995, 54, 1-33.	2.8	101
31	Controlling Ligand Binding in Myoglobin by Mutagenesis. Journal of Biological Chemistry, 2002, 277, 7509-7519.	3.4	101
32	Structure of the transition state for the binding of c-Myb and KIX highlights an unexpected order for a disordered system. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14942-14947.	7.1	99
33	Nitrite reductase fromPseudomonas aeruginosa: Sequence of the gene and the protein. FEBS Letters, 1989, 254, 33-38.	2.8	97
34	Neuroglobin, seven years after. Cellular and Molecular Life Sciences, 2007, 64, 1259-1268.	5.4	94
35	Tryptophan 121 of Subunit II Is the Electron Entry Site to Cytochrome-c Oxidase in Paracoccus denitrificans. Journal of Biological Chemistry, 1998, 273, 5132-5136.	3.4	93
36	Molecular Dynamics Simulation of Sperm Whale Myoglobin: Effects of Mutations and Trapped CO on the Structure and Dynamics of Cavities. Biophysical Journal, 2005, 89, 465-474.	0.5	93

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37	Studies on the Relations between Molecular and Functional Properties of Hemoglobin. Journal of Biological Chemistry, 1967, 242, 4360-4366.	3.4	93
38	Identification of Chloride-Binding Sites in Hemoglobin by Nuclear-Magnetic-Resonance Quadrupole-Relaxation Studies of Hemoglobin Digests. FEBS Journal, 1975, 55, 385-390.	0.2	91
39	Control of cytochrome c oxidase activity by nitric oxide. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1655, 365-371.	1.0	91
40	Towards a structural biology of the hydrophobic effect in protein folding. Scientific Reports, 2016, 6, 28285.	3.3	91
41	Neuroglobin: From structure to function in health and disease. Molecular Aspects of Medicine, 2016, 52, 1-48.	6.4	91
42	Conformational Changes Occurring upon Reduction and NO Binding in Nitrite Reductase fromPseudomonas aeruginosaâ€,â€¡. Biochemistry, 1998, 37, 13987-13996.	2.5	88
43	Artificial intermediates in the reaction of haemoglobin. Journal of Molecular Biology, 1970, 49, 461-471.	4.2	87
44	Direct electrochemistry of the undecapeptide from cytochrome c (microperoxidase) at a glassy carbon electrode. Journal of the American Chemical Society, 1988, 110, 8536-8537.	13.7	87
45	Nitric oxide and cytochrome oxidase: reaction mechanisms from the enzyme to the cell. Free Radical Biology and Medicine, 2003, 34, 509-520.	2.9	87
46	A globin for the brain. FASEB Journal, 2006, 20, 2192-2197.	0.5	87
47	Molecular Recognition by Templated Folding of an Intrinsically Disordered Protein. Scientific Reports, 2016, 6, 21994.	3.3	87
48	Cytochrome-c-binding site on cytochrome oxidase in Paracoccus denitrificans. FEBS Journal, 1998, 251, 367-373.	0.2	85
49	Spectral differences between haemoglobin and isolated haemoglobin chains in the deoxygenated state. Journal of Molecular Biology, 1968, 34, 357-359.	4.2	81
50	The structural dynamics of myoglobin. Journal of Structural Biology, 2004, 147, 223-234.	2.8	81
51	NO sensing in Pseudomonas aeruginosa: Structure of the Transcriptional Regulator DNR. Journal of Molecular Biology, 2008, 378, 1002-1015.	4.2	80
52	Redox control of fast ligand dissociation from Escherichia coli cytochrome bd. Biochemical and Biophysical Research Communications, 2007, 355, 97-102.	2.1	79
53	Catalytic Mechanism of Cytochrome Oxidase. Nature, 1970, 228, 936-937.	27.8	78
54	Fluorescence studies of Aplysia and sperm whale apomyoglobins. Biochemistry, 1970, 9, 4723-4729.	2.5	78

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55	The Interaction of Cyanide with Cytochrome Oxidase. FEBS Journal, 1971, 23, 396-400.	0.2	78
56	X-ray Crystal Structure of Ferric Aplysia limacina Myoglobin in Different Liganded States. Journal of Molecular Biology, 1993, 233, 498-508.	4.2	78
57	Kinetic Properties of ba3 Oxidase from Thermus thermophilus:â€‰ Effect of Temperature. Biochemistry, 1999, 38, 1057-1065.	2.5	78
58	Redox equilibrium of sperm-whale myoglobin, Aplysia myoglobin, and Chironomus thummi hemoglobin. Biochemistry, 1971, 10, 1604-1609.	2.5	77
59	A re-evaluation of some basic structural and functional properties of Pseudomonas cytochrome oxidase. Biochemical Journal, 1979, 183, 701-709.	3.7	76
60	Studies on the Oxidation-Reduction Potentials of Heme Proteins. IV. The Kinetics of Oxidation of Hemoglobin and Myoglobin by Ferricyanide*. Biochemistry, 1965, 4, 545-551.	2.5	75
61	Kinetics of the reactions of Aplysia myoglobin with oxygen and carbon monoxide. Archives of Biochemistry and Biophysics, 1965, 111, 576-579.	3.0	75
62	Reaction of Nitric Oxide with the Turnover Intermediates of CytochromecOxidase:Â Reaction Pathway and Functional Effectsâ€. Biochemistry, 2000, 39, 15446-15453.	2.5	74
63	Structural dynamics of myoglobin. Biophysical Chemistry, 2000, 86, 221-230.	2.8	73
64	Modulation of mitochondrial respiration by nitric oxide: investigation by single cell fluorescence microscopy. FASEB Journal, 1999, 13, 191-197.	0.5	71
65	A folding-after-binding mechanism describes the recognition between the transactivation domain of c-Myb and the KIX domain of the CREB-binding protein. Biochemical and Biophysical Research Communications, 2012, 428, 205-209.	2.1	71
66	Functional Properties of Native and Reconstituted Hemoglobins from Chironomus thummi thummi. FEBS Journal, 1972, 31, 52-58.	0.2	69
67	Absence of water at the sixth co-ordination site in ferric Aplysia myoglobin. Journal of Molecular Biology, 1981, 151, 315-319.	4.2	69
68	Structural Dynamics of Myoglobin. Journal of Biological Chemistry, 2002, 277, 11636-11644.	3.4	69
69	A PDZ domain recapitulates a unifying mechanism for protein folding. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 128-133.	7.1	69
70	Identification and characterization of protein folding intermediates. Biophysical Chemistry, 2007, 128, 105-113.	2.8	69
71	An Obligatory Intermediate in the Folding Pathway of Cytochromec552 from Hydrogenobacterthermophilus. Journal of Biological Chemistry, 2005, 280, 25729-25734.	3.4	68
72	Hemoglobins from trout: Structural and functional properties. Molecular and Cellular Biochemistry, 1973, 1, 189-196.	3.1	67

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73	Nitric oxide and the respiratory enzyme. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1144-1154.	1.0	66
74	Cytochrome c Oxidase Does Not Catalyze the Anaerobic Reduction of NO. Biochemical and Biophysical Research Communications, 1998, 245, 459-465.	2.1	65
75	Stereochemistry of ATP and GTP bound to fish haemoglobins. Journal of Molecular Biology, 1984, 178, 731-742.	4.2	64
76	Studies on the Quantum Yields of the Photodissociation of Carbon Monoxide from Hemoglobin and Myoglobin*. Biochemistry, 1967, 6, 1216-1222.	2.5	63
77	Glutathione reductase and thioredoxin reductase at the crossroad: The structure of Schistosoma mansoni thioredoxin glutathione reductase. Proteins: Structure, Function and Bioinformatics, 2008, 72, 936-945.	2.6	63
78	Mapping the Catalytic Cycle of Schistosoma mansoni Thioredoxin Glutathione Reductase by X-ray Crystallography. Journal of Biological Chemistry, 2010, 285, 32557-32567.	3.4	63
79	X-ray crystal structure of the fluoride derivative of Aplysia limacina ferric myoglobin at 2Â·0 Ã... resolution. Journal of Molecular Biology, 1990, 213, 621-625.	4.2	62
80	The Unusual Stability of Saporin, a Candidate for the Synthesis of Immunotoxins. Biochemical and Biophysical Research Communications, 1997, 234, 129-132.	2.1	62
81	Sequence-specific Long Range Networks in PSD-95/Discs Large/ZO-1 (PDZ) Domains Tune Their Binding Selectivity. Journal of Biological Chemistry, 2011, 286, 27167-27175.	3.4	62
82	Hemoglobin is an honorary enzyme. Trends in Biochemical Sciences, 1999, 24, 158-161.	7.5	60
83	Preparation and Kinetic Properties of Intermediates in the Reaction of Hemoglobin with Ligands. Journal of Biological Chemistry, 1966, 241, 3236-3238.	3.4	60
84	Denaturation of Aplysia myoglobin. Equilibrium study. Journal of Molecular Biology, 1972, 63, 139-152.	4.2	59
85	The electron transfer system of Pseudomonas aeruginosa: a study of the pH-dependent transitions between redox forms of azurin and cytochrome c551. Journal of Inorganic Biochemistry, 1981, 14, 327-338.	3.5	58
86	Identification of the prion protein allotypes which accumulate in the brain of sporadic and familial Creutzfeldt-Jakob disease patients. Nature Medicine, 1997, 3, 521-525.	30.7	58
87	Pattern of cavities in globins: The case of human hemoglobin. Biopolymers, 2009, 91, 1097-1107.	2.4	57
88	A cooperative model for ligand binding to biological macromolecules as applied to oxygen carriers. Biophysical Chemistry, 1986, 23, 215-222.	2.8	56
89	Nucleophosmin C-terminal Leukemia-associated Domain Interacts with G-rich Quadruplex Forming DNA. Journal of Biological Chemistry, 2010, 285, 37138-37149.	3.4	54
90	Structure of Nucleophosmin DNA-binding Domain and Analysis of Its Complex with a G-quadruplex Sequence from the c-MYC Promoter. Journal of Biological Chemistry, 2012, 287, 26539-26548.	3.4	54

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91	Reactivity of ferric Aplysia myoglobin towards anionic ligands in the acidic region. Journal of Molecular Biology, 1981, 146, 363-374.	4.2	53
92	Primary structure of hemoglobin from trout (salmo irideus). BBA - Proteins and Proteomics, 1983, 742, 72-77.	2.1	53
93	Structural characterization of a misfolded intermediate populated during the folding process of a PDZ domain. Nature Structural and Molecular Biology, 2010, 17, 1431-1437.	8.2	53
94	NMR study of the molecular and electronic structure of the heme cavity of Aplysia metmyoglobin. Resonance assignments based on isotope labeling and proton nuclear Overhauser effect measurements. Biochemistry, 1986, 25, 5638-5646.	2.5	51
95	The structure of the endoribonuclease XendoU: From small nucleolar RNA processing to severe acute respiratory syndrome coronavirus replication. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12365-12370.	7.1	51
96	Concerted changes in an allosteric macromolecule. Biophysical Chemistry, 1974, 2, 338-344.	2.8	50
97	Primary structure of hemoglobin from trout (Salmo irideus). Amino acid sequence of Î± chain of Hb trout I. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1978, 536, 298-305.	1.7	50
98	Parallel Pathways in Cytochrome c551 Folding. Journal of Molecular Biology, 2003, 330, 1145-1152.	4.2	50
99	Kinetic folding mechanism of PDZ2 from PTP-BL. Protein Engineering, Design and Selection, 2005, 18, 389-395.	2.1	50
100	An X-ray diffraction and X-ray absorption spectroscopy joint study of neuroglobin. Archives of Biochemistry and Biophysics, 2008, 475, 7-13.	3.0	50
101	Polysteric linkage. Journal of Molecular Biology, 1976, 100, 47-57.	4.2	49
102	Equilibrium and kinetics of the reaction of aplysia myoglobin with azide. Biochemistry, 1975, 14, 1584-1588.	2.5	48
103	A common folding mechanism in the cytochrome family. Trends in Biochemical Sciences, 2004, 29, 535-541.	7.5	48
104	On the mechanism and rate of gold incorporation into thiol-dependent flavoreductases. Journal of Inorganic Biochemistry, 2012, 108, 105-111.	3.5	48
105	Studies on the Equilibria and Kinetics of the Reactions of Peroxidases with Ligands. I. The Reaction of Ferroperoxidases with Carbon Monoxide*. Biochemistry, 1965, 4, 2672-2676.	2.5	47
106	Functional properties of carboxypeptidase-digested hemoglobins. Journal of Molecular Biology, 1974, 82, 499-511.	4.2	46
107	Insights into the Catalytic Mechanism of Glutathione S-Transferase: The Lesson from Schistosoma haematobium. Structure, 2005, 13, 1241-1246.	3.3	46
108	Nitric oxide reacts with the ferryl-oxo catalytic intermediate of the CuB-lacking cytochromebdterminal oxidase. FEBS Letters, 2006, 580, 4823-4826.	2.8	46

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109	The Allosteric Properties of Hemoglobin: Insights from Natural and Site Directed Mutants. Current Protein and Peptide Science, 2006, 7, 17-45.	1.4	46
110	Fast Dissociation of Nitric Oxide from Ferrous Pseudomonas aeruginosa cd1 Nitrite Reductase. Journal of Biological Chemistry, 2007, 282, 14761-14767.	3.4	46
111	Crystal Structure of the 28 kDa GlutathioneS-Transferase fromSchistosoma haematobiumâ€. Biochemistry, 2003, 42, 10084-10094.	2.5	45
112	Functional properties of hemoglobin pÃ´rto alegre (Î±2AÎ²29 Serâ†'Cys) and the reactivity of its extra cysteinyl residue. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1974, 342, 15-20.	1.7	44
113	Templated folding of intrinsically disordered proteins. Journal of Biological Chemistry, 2020, 295, 6586-6593.	3.4	44
114	The Effect of Ligand Binding on the Optical Rotatory Dispersion of Myoglobin, Hemoglobin, and Isolated Hemoglobin Subunits. Journal of Biological Chemistry, 1967, 242, 773-776.	3.4	44
115	The Kinetics of the Bohr Effect in the Reaction of Human Hemoglobin with Carbon Monoxide. Journal of Biological Chemistry, 1965, 240, PC2262-PC2264.	3.4	44
116	Chloride Bound to Oxidized Cytochrome c Oxidase Controls the Reaction with Nitric Oxide. Journal of Biological Chemistry, 1998, 273, 32475-32478.	3.4	43
117	Nitric Oxide and Mitochondrial Complex IV. IUBMB Life, 2004, 55, 605-611.	3.4	43
118	Neuroglobin: Enzymatic reduction and oxygen affinity. Biochemical and Biophysical Research Communications, 2008, 367, 893-898.	2.1	43
119	Understanding the frustration arising from the competition between function, misfolding, and aggregation in a globular protein. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14141-14146.	7.1	43
120	Studies on the Properties of Fish Hemoglobins Molecular Properties and Interaction with Third Components of the Isolated Hemoglobins from Trout (Salmo irideus). FEBS Journal, 1973, 39, 563-570.	0.2	42
121	Dissociation and Oxygen-Binding Behaviour of beta-Hemocyanin from Helox pomatia. FEBS Journal, 1978, 87, 467-473.	0.2	42
122	An On-pathway Intermediate in the Folding of a PDZ Domain. Journal of Biological Chemistry, 2007, 282, 8568-8572.	3.4	42
123	Time-resolved methods in biophysics. 6. Time-resolved Laue crystallography as a tool to investigate photo-activated protein dynamics. Photochemical and Photobiological Sciences, 2007, 6, 1047-1056.	2.9	42
124	Molecular Dynamics Simulation of Deoxy and Carboxy Murine Neuroglobin in Water. Biophysical Journal, 2007, 93, 434-441.	0.5	42
125	Spectral changes and allosteric transition in trout haemoglobin. Nature, 1975, 256, 761-762.	27.8	41
126	[36] Photochemistry of hemoproteins. Methods in Enzymology, 1981, 76, 582-595.	1.0	41

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127	Dynamics of the quaternary conformational change in trout hemoglobin. Biochemistry, 1991, 30, 6583-6598.	2.5	41
128	Interactions among residues CD3, E7, E10, and E11 in myoglobins: Attempts to simulate the ligand-binding properties of Aplysia myoglobin. Biochemistry, 1995, 34, 8715-8725.	2.5	40
129	Solution 1H nuclear magnetic resonance determination of hydrogen bonding of the E10 (66) Arg side-chain to the bound ligand in Aplysia cyano-met myoglobin. Journal of Molecular Biology, 1992, 224, 891-897.	4.2	39
130	Mutagenesis of nitrite reductase fromPseudomonas aeruginosa: tyrosine-10 in the c heme domain is not involved in catalysis1. FEBS Letters, 1997, 412, 365-369.	2.8	39
131	How Robust Is the Mechanism of Folding-Upon-Binding for an Intrinsically Disordered Protein?. Biophysical Journal, 2018, 114, 1889-1894.	0.5	39
132	Amino-acid Sequence of Î²-chain of hemoglobin IV from trout (Salmo irideus). BBA - Proteins and Proteomics, 1984, 789, 69-73.	2.1	38
133	Control and recognition of anionic ligands in myoglobin. FEBS Letters, 1991, 282, 281-284.	2.8	38
134	Pseudomonas aeruginosa cytochrome C551: probing the role of the hydrophobic patch in electron transfer. Journal of Inorganic Biochemistry, 2002, 88, 353-361.	3.5	38
135	Exploring the Cytochrome c Folding Mechanism. Journal of Biological Chemistry, 2003, 278, 41136-41140.	3.4	38
136	Kinetics of NO and O2 binding to a maleimide poly(ethylene glycol)-conjugated human haemoglobin. Biochemical Journal, 2004, 382, 183-189.	3.7	38
137	The mechanism of binding of the KIX domain to the mixed lineage leukemia protein and its allosteric role in the recognition of câ€Myb. Protein Science, 2014, 23, 962-969.	7.6	38
138	Studies on the reaction of isocyanides with haemproteins. Journal of Molecular Biology, 1971, 58, 261-276.	4.2	37
139	Kinetics of reconstitution of polyphenoloxidase from apoenzyme and copper. Biochemical and Biophysical Research Communications, 1972, 49, 1208-1215.	2.1	37
140	Engineering Ascaris hemoglobin oxygen affinity in sperm whale myoglobin: role of tyrosine B10. FEBS Letters, 1994, 352, 63-66.	2.8	37
141	The Denatured State Dictates the Topology of Two Proteins with Almost Identical Sequence but Different Native Structure and Function. Journal of Biological Chemistry, 2011, 286, 3863-3872.	3.4	37
142	Evidence for two oxygen-linked binding sites for polyanions in dromedary hemoglobin. FEBS Journal, 1985, 150, 387-393.	0.2	36
143	A chimeric saporinâ€transferrin conjugate compared to ricin toxin: role of the carrier in intracellular transport and toxicity. FASEB Journal, 1995, 9, 1220-1225.	0.5	36
144	Effect of anions on the oxygen binding properties of the hemoglobin components from trout (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.0	35

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145	Proton nuclear magnetic resonance study of the molecular and electronic structure of the heme cavity in Aplysia cyanometmyoglobin. Biochemistry, 1989, 28, 4880-4887.	2.5	35
146	Aplysia limacina myoglobin cDNA cloning: an alternative mechanism of oxygen stabilization as studied by active-site mutagenesis. Biochemical Journal, 1996, 314, 83-90.	3.7	35
147	A Strategic Protein in Cytochrome c Maturation. Journal of Biological Chemistry, 2007, 282, 27012-27019.	3.4	35
148	Myoglobin strikes back. Protein Science, 2010, 19, 195-201.	7.6	35
149	Crystal structure of ferric Aplysia limacina myoglobin at 2.0 Ã... resolution. Journal of Molecular Biology, 1985, 183, 113-115.	4.2	34
150	Structural and functional characterization of sperm whale myoglobin mutants: Role of arginine (E10) in ligand stabilization. Biochemistry, 1993, 32, 6041-6049.	2.5	34
151	Nitric oxide, cytochromecoxidase and myoglobin: Competition and reaction pathways. FEBS Letters, 2005, 579, 2528-2532.	2.8	34
152	Unfolding of apomyoglobin from Aplysia limacina : the effect of salt and ph on the cooperativity of folding 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1998, 275, 133-148.	4.2	33
153	Deciphering the folding transition state structure and denatured state properties of Nucleophosmin C-terminal domain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5447-5452.	7.1	33
154	The Monod-Wyman-Changeux allosteric model accounts for the quaternary transition dynamics in wild type and a recombinant mutant human hemoglobin. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14894-14899.	7.1	33
155	Properties of Modified Cytochromes. Journal of Biological Chemistry, 1972, 247, 6076-6081.	3.4	33
156	Effect of Heme and Non-Heme Ligands on Subunit Dissociation of Normal and Carboxypeptidase-digested Hemoglobin. Journal of Biological Chemistry, 1974, 249, 5689-5694.	3.4	33
157	Studies on the Properties of Fish Hemoglobins. Kinetics of Reaction with Oxygen and Carbon Monoxide of the Isolated Hemoglobin Components from Trout (Salmo irideus). FEBS Journal, 1973, 39, 571-579.	0.2	32
158	Amino acid sequence of Î±-chain of hemoglobin IV from trout (Salmo irideus). BBA - Proteins and Proteomics, 1989, 995, 255-258.	2.1	32
159	The Structure of Neuroglobin at High Xe and Kr Pressure Reveals Partial Conservation of Globin Internal Cavities. Biophysical Journal, 2009, 97, 1700-1708.	0.5	32
160	Properties of Modified Cytochromes. Journal of Biological Chemistry, 1973, 248, 8162-8169.	3.4	32
161	Reversible thermal denaturation of Aplysia myoglobin. Journal of Molecular Biology, 1968, 34, 497-504.	4.2	31
162	Mini-myoglobin: Preparation and reaction with oxygen and carbon monoxide. Journal of Molecular Biology, 1986, 188, 73-76.	4.2	31

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163	Does the Reduction of c Heme Trigger the Conformational Change of Crystalline Nitrite Reductase?. Journal of Biological Chemistry, 1999, 274, 14997-15004.	3.4	31
164	Nitric Oxide Reacts with the Single-electron Reduced Active Site of Cytochrome c Oxidase. Journal of Biological Chemistry, 2002, 277, 22402-22406.	3.4	31
165	Folding mechanism of the Câ€terminal domain of nucleophosmin: residual structure in the denatured state and its pathophysiological significance. FASEB Journal, 2009, 23, 2360-2365.	0.5	31
166	Hemoglobin allostery: Variations on the theme. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1262-1272.	1.0	31
167	Kinetics of the co-operative and non-co-operative reaction of Helix pomatia haemocyanin with oxygen. Journal of Molecular Biology, 1974, 89, 103-112.	4.2	30
168	Binding mode of azide to ferricAplysia limacina myoglobin. Crystallographic analysis at 1.9 Ã... resolution. Journal of Molecular Recognition, 1991, 4, 1-6.	2.1	30
169	Snapshots of protein folding. A study on the multiple transition state pathway of cytochrome c551 from Pseudomonas aeruginosa. Journal of Molecular Biology, 2001, 309, 1177-1187.	4.2	30
170	Combining crystallography and molecular dynamics: The case of Schistosoma mansoni phospholipid glutathione peroxidase. Proteins: Structure, Function and Bioinformatics, 2010, 78, 259-270.	2.6	30
171	Observations on the Kinetics of the Reaction of Hemoglobin with Oxygen. Journal of Biological Chemistry, 1967, 242, 4841-4843.	3.4	30
172	Equilibrium of human hemoglobin with ethylisocyanide: Further evidence for co-operativity in hemoglobin dimers. Journal of Molecular Biology, 1970, 47, 205-213.	4.2	29
173	The kinetics of oxidation of ferroperoxidase by molecular oxygen. A model of a terminal oxidase. Biochemical Journal, 1974, 141, 265-272.	3.7	29
174	Glutathione peroxidase and oxidative hemolysis in trout red blood cells. FEBS Letters, 1987, 221, 355-358.	2.8	29
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