

Andrea Mozzarelli

List of Publications by Year in descending order

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252
papers

7,906
citations

47004

47
h-index

82542

72
g-index

306
all docs

306
docs citations

306
times ranked

5892
citing authors

#	ARTICLE	IF	CITATIONS
1	Is cooperative oxygen binding by hemoglobin really understood?. <i>Nature Structural Biology</i> , 1999, 6, 351-358.	9.7	292
2	Delay time of hemoglobin S polymerization prevents most cells from sickling in vivo. <i>Science</i> , 1987, 237, 500-506.	12.6	209
3	Pyridoxal 5-Phosphate Enzymes as Targets for Therapeutic Agents. <i>Current Medicinal Chemistry</i> , 2007, 14, 1291-1324.	2.4	177
4	Crystal structures and inhibitor binding in the octameric flavoenzyme vanillyl-alcohol oxidase: the shape of the active-site cavity controls substrate specificity. <i>Structure</i> , 1997, 5, 907-920.	3.3	154
5	Simple, Intuitive Calculations of Free Energy of Binding for Protein-Ligand Complexes. 1. Models without Explicit Constrained Water. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 2469-2483.	6.4	131
6	Structures of γ -Aminobutyric Acid (GABA) Aminotransferase, a Pyridoxal 5-Phosphate, and [2Fe-2S] Cluster-containing Enzyme, Complexed with γ -Ethynyl-GABA and with the Antiepilepsy Drug Vigabatrin. <i>Journal of Biological Chemistry</i> , 2004, 279, 363-373.	3.4	129
7	Oxygen binding by single crystals of hemoglobin. <i>Biochemistry</i> , 1993, 32, 2888-2906.	2.5	128
8	Crystals of haemoglobin with the T quaternary structure bind oxygen noncooperatively with no Bohr effect. <i>Nature</i> , 1991, 351, 416-419.	27.8	121
9	From muscle to meat-molecular events and technological transformations: The proteomics insight. <i>Journal of Proteomics</i> , 2012, 75, 4275-4289.	2.4	115
10	T State Hemoglobin Binds Oxygen Noncooperatively with Allosteric Effects of Protons, Inositol Hexaphosphate, and Chloride. <i>Journal of Biological Chemistry</i> , 1997, 272, 32050-32055.	3.4	113
11	Protein Function in the Crystal. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 1996, 25, 343-365.	18.3	112
12	Simple, Intuitive Calculations of Free Energy of Binding for Protein-Ligand Complexes. 3. The Free Energy Contribution of Structural Water Molecules in HIV-1 Protease Complexes. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 4507-4516.	6.4	112
13	The Roles of Water in the Protein Matrix: A Largely Untapped Resource for Drug Discovery. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 6781-6827.	6.4	111
14	New insights into allosteric mechanisms from trapping unstable protein conformations in silica gels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14414-14419.	7.1	110
15	Evolution of allosteric models for hemoglobin. <i>IUBMB Life</i> , 2007, 59, 586-599.	3.4	103
16	Drug Discovery Targeting Amino Acid Racemases. <i>Chemical Reviews</i> , 2011, 111, 6919-6946.	47.7	97
17	Robust Classification of Relevant Water Molecules in Putative Protein Binding Sites. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1063-1067.	6.4	93
18	Active Site Plasticity in D-Amino Acid Oxidase: A Crystallographic Analysis. <i>Biochemistry</i> , 1997, 36, 5853-5860.	2.5	89

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19	Free Energy of Ligand Binding to Protein: Evaluation of the Contribution of Water Molecules by Computational Methods. <i>Current Medicinal Chemistry</i> , 2004, 11, 3093-3118.	2.4	89
20	Monovalent Cations Affect Dynamic and Functional Properties of the Tryptophan Synthase $\alpha_2\beta_2$ Complex. <i>Biochemistry</i> , 1995, 34, 9459-9465.	2.5	86
21	Mapping the Energetics of Water-Protein and Water-Ligand Interactions with the Natural HINT Forcefield: Predictive Tools for Characterizing the Roles of Water in Biomolecules. <i>Journal of Molecular Biology</i> , 2006, 358, 289-309.	4.2	85
22	Interaction of serine acetyltransferase with O-acetylserine sulfhydrylase active site: Evidence from fluorescence spectroscopy. <i>Protein Science</i> , 2005, 14, 2115-2124.	7.6	83
23	Tryptophan synthase: a mine for enzymologists. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 2391-2403.	5.4	83
24	Simple, Intuitive Calculations of Free Energy of Binding for Protein-Ligand Complexes. 2. Computational Titration and pH Effects in Molecular Models of Neuraminidase Inhibitor Complexes. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 4487-4500.	6.4	77
25	Allosteric Regulation of Tryptophan Synthase: Effects of pH, Temperature, and Subunit Ligands on the Equilibrium Distribution of Pyridoxal 5-Phosphate-l-Serine Intermediates. <i>Biochemistry</i> , 1996, 35, 1872-1880.	2.5	75
26	Design of O-Acetylserine Sulfhydrylase Inhibitors by Mimicking Nature. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 345-356.	6.4	75
27	High and low oxygen affinity conformations of T state hemoglobin. <i>Protein Science</i> , 2008, 10, 2401-2407.	7.6	74
28	Identification of Xenoestrogens in Food Additives by an Integrated in Silico and in Vitro Approach. <i>Chemical Research in Toxicology</i> , 2009, 22, 52-63.	3.3	74
29	Dynamics of green fluorescent protein mutant2 in solution, on spin-coated glasses, and encapsulated in wet silica gels. <i>Protein Science</i> , 2002, 11, 1152-1161.	7.6	61
30	Exploring and exploiting allostery: Models, evolution, and drug targeting. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 922-933.	2.3	60
31	Functional Properties of the Active Core of Human Cystathionine Synthase Crystals. <i>Journal of Biological Chemistry</i> , 2001, 276, 16-19.	3.4	58
32	Structure, Mechanism, and Conformational Dynamics of O-Acetylserine Sulfhydrylase from <i>Salmonella typhimurium</i> : Comparison of A and B Isozymes. <i>Biochemistry</i> , 2007, 46, 8315-8330.	2.5	58
33	The consequences of scoring docked ligand conformations using free energy correlations. <i>European Journal of Medicinal Chemistry</i> , 2007, 42, 921-933.	5.5	58
34	Microspectrophotometric Studies on Single Crystals of the Tryptophan Synthase $\alpha_2\beta_2$ Complex Demonstrate Formation of Enzyme-Substrate Intermediates. <i>Journal of Biological Chemistry</i> , 1989, 264, 15774-15780.	3.4	58
35	Kinetics of Acid-Induced Spectral Changes in the GFPmut2 Chromophore. <i>Journal of the American Chemical Society</i> , 2005, 127, 626-635.	13.7	57
36	Unfolding of Green Fluorescent Protein mut2 in wet nanoporous silica gels. <i>Protein Science</i> , 2005, 14, 1125-1133.	7.6	57

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37	Energetics of the protein-DNA-water interaction. <i>BMC Structural Biology</i> , 2007, 7, 4.	2.3	57
38	Bound Water at Protein-Protein Interfaces: Partners, Roles and Hydrophobic Bubbles as a Conserved Motif. <i>PLoS ONE</i> , 2011, 6, e24712.	2.5	57
39	Conformational changes and subunit communication in tryptophan synthase: effect of substrates and substrate analogs. <i>Biochemistry</i> , 1992, 31, 7535-7542.	2.5	56
40	The Reactivity with CO of AHb1 and AHb2 from <i>Arabidopsis thaliana</i> is Controlled by the Distal HisE7 and Internal Hydrophobic Cavities. <i>Journal of the American Chemical Society</i> , 2007, 129, 2880-2889.	13.7	54
41	Time-resolved methods in Biophysics. 2. Monitoring haem proteins at work with nanosecond laser flash photolysis. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 1109.	2.9	53
42	Muscle and meat: New horizons and applications for proteomics on a farm to fork perspective. <i>Journal of Proteomics</i> , 2013, 88, 58-82.	2.4	53
43	Exploring the pyridoxal 5 α -phosphate-dependent enzymes. <i>Chemical Record</i> , 2006, 6, 275-287.	5.8	52
44	Microspectrophotometry for structural enzymology. <i>Current Opinion in Structural Biology</i> , 2004, 14, 656-662.	5.7	51
45	Allosteric effectors do not alter the oxygen affinity of hemoglobin crystals. <i>Protein Science</i> , 1997, 6, 484-489.	7.6	50
46	Structure and Oxygen Affinity of Crystalline of DesArg141 \pm Human Hemoglobin A in the T State. <i>Journal of Molecular Biology</i> , 1995, 248, 136-150.	4.2	49
47	Functional and Spectroscopic Characterization of Half-Liganded Iron \sim Zinc Hybrid Hemoglobin: Evidence for Conformational Plasticity within the T State,. <i>Biochemistry</i> , 2003, 42, 8272-8288.	2.5	49
48	Spectroscopic and Functional Characterization of T State Hemoglobin Conformations Encapsulated in Silica Gels. <i>Biochemistry</i> , 2004, 43, 13674-13682.	2.5	49
49	Allosteric mechanism of haemoglobin: rupture of salt-bridges raises the oxygen affinity of the T-structure 1 1Edited by D. Rees. <i>Journal of Molecular Biology</i> , 1998, 281, 581-585.	4.2	47
50	Ligand migration through the internal hydrophobic cavities in human neuroglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18984-18989.	7.1	47
51	Discovery of Covalent Inhibitors of Glyceraldehyde-3-phosphate Dehydrogenase, A Target for the Treatment of Malaria. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 7465-7471.	6.4	47
52	Experimental basis for a new allosteric model for multisubunit proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12758-12763.	7.1	46
53	Anticooperative ligand binding properties of recombinant ferric <i>Vitreoscilla</i> homodimeric hemoglobin: A thermodynamic, kinetic and X-ray crystallographic study 1 1Edited by K. Nagei 2 2This paper is dedicated to Professor Giampaolo Bolognesi on the occasion of his 75th birthday.. <i>Journal of Molecular Biology</i> , 1999, 291, 637-650.	4.2	45
54	PEGylation Promotes Hemoglobin Tetramer Dissociation. <i>Bioconjugate Chemistry</i> , 2009, 20, 1356-1366.	3.6	45

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55	Cryocrystallography and Microspectrophotometry of a Mutant (Î±D60N) Tryptophan Synthase Î±2Î²2Complex Reveals Allosteric Roles of Î±Asp60. <i>Biochemistry</i> , 1998, 37, 10653-10659.	2.5	44
56	Energy-based prediction of amino acid-nucleotide base recognition. <i>Journal of Computational Chemistry</i> , 2008, 29, 1955-1969.	3.3	44
57	Identification of a Small Molecule that Increases Hemoglobin Oxygen Affinity and Reduces SS Erythrocyte Sickling. <i>ACS Chemical Biology</i> , 2014, 9, 2318-2325.	3.4	44
58	Isozyme-Specific Ligands for O-acetylserine sulfhydrylase, a Novel Antibiotic Target. <i>PLoS ONE</i> , 2013, 8, e77558.	2.5	43
59	Towards a novel haemoglobin-based oxygen carrier: Euro-PEG-Hb, physico-chemical properties, vasoactivity and renal filtration. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1402-1409.	2.3	42
60	Inhibitors of the Sulfur Assimilation Pathway in Bacterial Pathogens as Enhancers of Antibiotic Therapy. <i>Current Medicinal Chemistry</i> , 2014, 22, 187-213.	2.4	42
61	Microspectrophotometric studies on single crystals of the tryptophan synthase alpha 2 beta 2 complex demonstrate formation of enzyme-substrate intermediates. <i>Journal of Biological Chemistry</i> , 1989, 264, 15774-80.	3.4	42
62	The multifaceted pyridoxal 5-phosphate-dependent O-acetylserine sulfhydrylase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1497-1510.	2.3	39
63	Mutational Effects at the Subunit Interfaces of Human Hemoglobin: Evidence for a Unique Sensitivity of the T Quaternary State to Changes in the Hinge Region of the Î±1Î²2 Interface. <i>Biochemistry</i> , 2001, 40, 12357-12368.	2.5	38
64	Cooperative Oxygen Binding to Scapharca inaequalis Hemoglobin in the Crystal. <i>Journal of Biological Chemistry</i> , 1996, 271, 3627-3632.	3.4	37
65	Crystal Structures of a New Class of Allosteric Effectors Complexed to Tryptophan Synthase. <i>Journal of Biological Chemistry</i> , 2002, 277, 10647-10652.	3.4	36
66	Design and synthesis of trans-2-substituted-cyclopropane-1-carboxylic acids as the first non-natural small molecule inhibitors of O-acetylserine sulfhydrylase. <i>MedChemComm</i> , 2012, 3, 1111.	3.4	36
67	Role of Pyridoxal 5-Phosphate in the Structural Stabilization of O-Acetylserine Sulfhydrylase. <i>Journal of Biological Chemistry</i> , 2000, 275, 40244-40251.	3.4	35
68	Functional Characterization of Heme Proteins Encapsulated in Wet Nanoporous Silica Gels. <i>Journal of Nanoscience and Nanotechnology</i> , 2001, 1, 407-415.	0.9	35
69	Trapping of the Thioacylglyceraldehyde-3-phosphate Dehydrogenase Intermediate from <i>Bacillus stearothermophilus</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 21693-21702.	3.4	35
70	A Two-step Process Controls the Formation of the Bienenzyme Cysteine Synthase Complex. <i>Journal of Biological Chemistry</i> , 2010, 285, 12813-12822.	3.4	35
71	Fine tuning of the active site modulates specificity in the interaction of O-acetylserine sulfhydrylase isozymes with serine acetyltransferase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 169-181.	2.3	35
72	Moonlighting O-acetylserine sulfhydrylase: New functions for an old protein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1184-1193.	2.3	35

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73	Computational Titration Analysis of a Multiprotic HIV-1 Protease~Ligand Complex. <i>Journal of the American Chemical Society</i> , 2004, 126, 11764-11765.	13.7	34
74	Serine racemase: a key player in neuron activity and in neuropathologies. <i>Frontiers in Bioscience - Landmark</i> , 2013, 18, 1112.	3.0	34
75	<sc>ATP</sc> binding to human serine racemase is cooperative and modulated by glycine. <i>FEBS Journal</i> , 2013, 280, 5853-5863.	4.7	33
76	Experiments on Hemoglobin in Single Crystals and Silica Gels Distinguish among Allosteric Models. <i>Biophysical Journal</i> , 2015, 109, 1264-1272.	0.5	33
77	Oxygen binding by single crystals of hemoglobin: The problem of cooperativity and inequivalence of alpha and beta subunits. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996, 25, 425-437.	2.6	33
78	Time-Resolved Fluorescence of O-Acetylserine Sulfhydrylase Catalytic Intermediates. <i>Biochemistry</i> , 1997, 36, 15419-15427.	2.5	32
79	Tyrosine phenol-lyase and tryptophan indole-lyase encapsulated in wet nanoporous silica gels: Selective stabilization of tertiary conformations. <i>Protein Science</i> , 2004, 13, 913-924.	7.6	32
80	Getting it right: modeling of pH, solvent and nearly everything else in virtual screening of biological targets. <i>Journal of Molecular Graphics and Modelling</i> , 2004, 22, 479-486.	2.4	32
81	Different roles of protein dynamics and ligand migration in non-symbiotic hemoglobins AHb1 and AHb2 from <i>Arabidopsis thaliana</i> . <i>Gene</i> , 2007, 398, 224-233.	2.2	32
82	Proteomic analysis of pork meat in the production of cooked ham. <i>Molecular BioSystems</i> , 2011, 7, 2252.	2.9	32
83	Tracking Unfolding and Refolding of Single GFPmut2 Molecules. <i>Biophysical Journal</i> , 2005, 89, 2033-2045.	0.5	31
84	Time-resolved fluorescence of O-acetylserine sulfhydrylase. <i>BBA - Proteins and Proteomics</i> , 1999, 1429, 317-330.	2.1	29
85	Evidence for Two Geminate Rebinding States Following Laser Photolysis of R State Hemoglobin Encapsulated in Wet Silica Gels. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11411-11413.	2.6	29
86	Determination of Microscopic Rate Constants for CO Binding and Migration in Myoglobin Encapsulated in Silica Gels. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19523-19528.	2.6	29
87	Geminate Rebinding in R-State Hemoglobin: Kinetic and Computational Evidence for Multiple Hydrophobic Pockets. <i>Journal of the American Chemical Society</i> , 2005, 127, 17427-17432.	13.7	29
88	Oxygen Binding to Heme Proteins in Solution, Encapsulated in Silica Gels, and in the Crystalline State. <i>Methods in Enzymology</i> , 2008, 437, 311-328.	1.0	29
89	Allosteric Communication of Tryptophan Synthase. <i>Journal of Biological Chemistry</i> , 2001, 276, 17747-17753.	3.4	28
90	Crystal Structure of the Ser178 Pro Mutant of Tryptophan Synthase. <i>Journal of Biological Chemistry</i> , 2002, 277, 10653-10660.	3.4	28

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91	CO Rebinding Kinetics and Molecular Dynamics Simulations Highlight Dynamic Regulation of Internal Cavities in Human Cytoglobin. PLoS ONE, 2013, 8, e49770.	2.5	28
92	Rational Design, Synthesis, and Preliminary Structure-Activity Relationships of $\hat{1}\pm$ -Substituted-2-Phenylcyclopropane Carboxylic Acids as Inhibitors of <i>Salmonella typhimurium</i> $\langle i \rangle$ $\langle i \rangle$ -O-Acetylserine Sulfhydrylase. Journal of Medicinal Chemistry, 2016, 59, 2567-2578.	6.4	28
93	The Energy Landscape of Human Serine Racemase. Frontiers in Molecular Biosciences, 2018, 5, 112.	3.5	28
94	Snapshots of the Cystine Lyase C-DES during Catalysis. Journal of Biological Chemistry, 2003, 278, 357-365.	3.4	27
95	Circular dichroism spectroscopy of tertiary and quaternary conformations of human hemoglobin entrapped in wet silica gels. Protein Science, 2006, 15, 1961-1967.	7.6	27
96	Ligand Migration in Nonsymbiotic Hemoglobin AHb1 from Arabidopsis thaliana. Journal of Physical Chemistry B, 2007, 111, 12582-12590.	2.6	27
97	Proteomics of Parma Dry-Cured Ham: Analysis of Salting Exudates. Journal of Agricultural and Food Chemistry, 2017, 65, 6307-6316.	5.2	27
98	Characterization of tryptophan and coenzyme luminescence in tryptophan synthase from Salmonella typhimurium. Biochemistry, 1992, 31, 7527-7534.	2.5	26
99	Crystals of Tryptophan Indole-Lyase and Tyrosine Phenol-Lyase Form Stable Quinonoid Complexes. Journal of Biological Chemistry, 2002, 277, 21592-21597.	3.4	26
100	CO Rebinding Kinetics to Myoglobin- and R-State-Hemoglobin-Doped Silica Gels in the Presence of Glycerol. Journal of Physical Chemistry B, 2004, 108, 8475-8484.	2.6	26
101	Targeting Cystalyisin, a Virulence Factor of <i>Treponema denticola</i> Supported Periodontitis. ChemMedChem, 2014, 9, 1501-1511.	3.2	26
102	Enhanced geminate ligand rebinding upon photo-dissociation of silica gel-embedded myoglobin-CO. Chemical Physics Letters, 2001, 346, 430-436.	2.6	25
103	Identification of the Structural Determinants for the Stability of Substrate and Aminoacrylate External Schiff Bases in $\langle i \rangle$ $\langle i \rangle$ -O-Acetylserine Sulfhydrylase-A. Biochemistry, 2010, 49, 6093-6103.	2.5	25
104	Human kynurenine aminotransferase reactivity with substrates and inhibitors. FEBS Journal, 2011, 278, 1882-1900.	4.7	25
105	Effect of chloride on oxygen binding to crystals of hemoglobin Rothschild (.beta.37 Trp .fwdarw. Arg) in the T quaternary structure. Biochemistry, 1993, 32, 6411-6418.	2.5	24
106	Surface-exposed Tryptophan Residues Are Essential for O-Acetylserine Sulfhydrylase Structure, Function, and Stability. Journal of Biological Chemistry, 2003, 278, 37511-37519.	3.4	24
107	Identification of the Geometric Requirements for Allosteric Communication between the $\hat{1}\pm$ - and $\hat{2}$ -Subunits of Tryptophan Synthase. Journal of Biological Chemistry, 2005, 280, 13450-13456.	3.4	24
108	MediaChrom: Discovering a Class of Pyrimidoindolone-Based Polarity-Sensitive Dyes. Journal of Organic Chemistry, 2015, 80, 10939-10954.	3.2	24

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109	Kinetic studies of crystalline enzymes by single crystal microspectrophotometry. Analysis of a single catalytic turnover in a D-glyceraldehyde-3-phosphate dehydrogenase crystal.. Journal of Biological Chemistry, 1979, 254, 8480-8486.	3.4	24
110	Haemoglobin-based oxygen carriers: research and reality towards an alternative to blood transfusions. Blood Transfusion, 2010, 8 Suppl 3, s59-68.	0.4	24
111	Catalytic and regulatory properties of d-glyceraldehyde-3-phosphate dehydrogenase in the crystal. Journal of Molecular Biology, 1977, 110, 405-415.	4.2	23
112	Confinement and crowding effects on tryptophan synthase $\hat{1}\pm 2\hat{1}^2$ complex. FEBS Letters, 2005, 579, 2197-2202.	2.8	23
113	Chemogenomic Strategies to Expand the Bioactive Chemical Space. Current Medicinal Chemistry, 2009, 16, 4374-4381.	2.4	23
114	Engineering tyrosine electron transfer pathways decreases oxidative toxicity in hemoglobin: implications for blood substitute design. Biochemical Journal, 2016, 473, 3371-3383.	3.7	23
115	Catalytic Activity of Aspartate Aminotransferase in the Crystal. Equilibrium and Kinetic Analysis. FEBS Journal, 1979, 98, 173-179.	0.2	22
116	Allosteric communication between alpha and beta subunits of tryptophan synthase: Modelling the open-closed transition of the alpha subunit. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1102-1109.	2.3	22
117	Expanding the chemical space of human serine racemase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4297-4303.	2.2	22
118	Comparison of the oxidative reactivity of recombinant fetal and adult human hemoglobin: implications for the design of hemoglobin-based oxygen carriers. Bioscience Reports, 2018, 38, .	2.4	22
119	Complex formation and intermolecular electron transfer between flavocytochrome b2 in the crystal and cytochrome c.. Journal of Biological Chemistry, 1983, 258, 5424-5427.	3.4	22
120	Time-resolved fluorescence of tryptophan synthase. Biophysical Chemistry, 1996, 61, 9-22.	2.8	21
121	Regulation of human serine racemase activity and dynamics by halides, ATP and malonate. Amino Acids, 2015, 47, 163-173.	2.7	21
122	Cyclopropane-1,2-dicarboxylic acids as new tools for the biophysical investigation of <i>O</i> -acetylserine sulphydrylases by fluorimetric methods and saturation transfer difference (STD) NMR. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 78-87.	5.2	21
123	Catalytic competence of <i>O</i> -acetylserine sulphydrylase in the crystal probed by polarized absorption microspectrophotometry. Journal of Molecular Biology, 1998, 283, 135-146.	4.2	20
124	Novel allosteric effectors of the tryptophan synthase $\hat{1}\pm 2\hat{1}^2$ complex identified by computer-assisted molecular modeling. BBA - Proteins and Proteomics, 2000, 1476, 287-299.	2.1	20
125	Structural Plasticity and Functional Implications of Internal Cavities in Distal Mutants of Type 1 Non-Symbiotic Hemoglobin AHb1 from <i>Arabidopsis thaliana</i> . Journal of Physical Chemistry B, 2009, 113, 16028-16038.	2.6	20
126	Histidine E7 Dynamics Modulates Ligand Exchange between Distal Pocket and Solvent in AHb1 from <i>Arabidopsis thaliana</i> . Journal of Physical Chemistry B, 2011, 115, 4138-4146.	2.6	20

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127	Protein carbonylation detection methods: A comparison. <i>Data in Brief</i> , 2018, 19, 2215-2220.	1.0	20
128	Immobilization of Proteins in Silica Gel: Biochemical and Biophysical Properties. <i>Current Organic Chemistry</i> , 2015, 19, 1653-1668.	1.6	20
129	Structure and Oxygen Affinity of Crystalline des-His-146 ² Human Hemoglobin in the T State. <i>Journal of Biological Chemistry</i> , 1997, 272, 33077-33084.	3.4	19
130	Effect of pH and Monovalent Cations on the Formation of Quinonoid Intermediates of the Tryptophan Synthase β - β Complex in Solution and in the Crystal. <i>Journal of Biological Chemistry</i> , 2000, 275, 6956-6962.	3.4	19
131	Molecular Heterogeneity of O-Acetylserine Sulfhydrylase by Two-Photon Excited Fluorescence Fluctuation Spectroscopy. <i>Biophysical Journal</i> , 2001, 80, 1973-1985.	0.5	19
132	Role of Aspartate-133 and Histidine-458 in the Mechanism of Tryptophan Indole-Lyase from <i>Proteus vulgaris</i> . <i>Biochemistry</i> , 2003, 42, 11161-11169.	2.5	19
133	Oxygen binding to <i>Arabidopsis thaliana</i> AHB2 nonsymbiotic hemoglobin: evidence for a role in oxygen transport. <i>IUBMB Life</i> , 2011, 63, 355-362.	3.4	19
134	Engineering tyrosine residues into hemoglobin enhances heme reduction, decreases oxidative stress and increases vascular retention of a hemoglobin based blood substitute. <i>Free Radical Biology and Medicine</i> , 2019, 134, 106-118.	2.9	19
135	Kinetic studies of crystalline enzymes by single crystal microspectrophotometry. Analysis of a single catalytic turnover in a D-glyceraldehyde-3-phosphate dehydrogenase crystal. <i>Journal of Biological Chemistry</i> , 1979, 254, 8480-6.	3.4	19
136	Tools for building a comprehensive modeling system for virtual screening under real biological conditions: The Computational Titration algorithm. <i>Journal of Molecular Graphics and Modelling</i> , 2006, 24, 434-439.	2.4	18
137	Exploring methionine β -lyase structure-function relationship via microspectrophotometry and X-ray crystallography. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 834-842.	2.3	18
138	Selectivity of 3-bromo-isoxazoline inhibitors between human and <i>Plasmodium falciparum</i> glyceraldehyde-3-phosphate dehydrogenases. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 2654-2659.	3.0	18
139	Conformational probes of O-acetylserine sulfhydrylase: fluorescence of tryptophans 50 and 161. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1999, 48, 17-26.	3.8	17
140	Site-directed mutations of human hemoglobin at residue 35 ² : A residue at the intersection of the β 1 ² 1, β 1 ² 2, and β 1 ² 2 interfaces. <i>Protein Science</i> , 2001, 10, 1847-1855.	7.6	17
141	Magnesium and calcium ions differentially affect human serine racemase activity and modulate its quaternary equilibrium toward a tetrameric form. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 381-387.	2.3	17
142	Discovery of novel fragments inhibiting O-acetylserine sulphhydrylase by combining scaffold hopping and ligand-based drug design. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1444-1452.	5.2	17
143	Inhibition of Nonessential Bacterial Targets: Discovery of a Novel Serine <i>O</i> -Acetyltransferase Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 790-797.	2.8	17
144	Sulfur Mobilization in Cyanobacteria. <i>Journal of Biological Chemistry</i> , 2006, 281, 38769-38780.	3.4	16

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