

Andrea Mozzarelli

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269 papers	6,855 citations	45 h-index	67 g-index
306 ext. papers	7,370 ext. citations	5.2 avg, IF	5.41 L-index

#	Paper	IF	Citations
269	Is cooperative oxygen binding by hemoglobin really understood?. <i>Nature Structural Biology</i> , 1999 , 6, 351-8		253
268	Delay time of hemoglobin S polymerization prevents most cells from sickling in vivo. <i>Science</i> , 1987 , 237, 500-6	33.3	175
267	Pyridoxal 5'-phosphate enzymes as targets for therapeutic agents. <i>Current Medicinal Chemistry</i> , 2007 , 14, 1291-324	4.3	153
266	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, 907-20	5.2	131
265	Oxygen binding by single crystals of hemoglobin. <i>Biochemistry</i> , 1993 , 32, 2888-906	3.2	122
264	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, 2469-83	8.3	118
263	Crystals of haemoglobin with the T quaternary structure bind oxygen noncooperatively with no Bohr effect. <i>Nature</i> , 1991 , 351, 416-9	50.4	114
262	Structures of gamma-aminobutyric acid (GABA) aminotransferase, a pyridoxal 5'-phosphate, and [2Fe-2S] cluster-containing enzyme, complexed with gamma-ethynyl-GABA and with the antiepilepsy drug vigabatrin. <i>Journal of Biological Chemistry</i> , 2004 , 279, 363-73	5.4	111
261	Protein function in the crystal. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 1996 , 25, 343-65		108
260	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, 4507-16	8.3	107
259	T state hemoglobin binds oxygen noncooperatively with allosteric effects of protons, inositol hexaphosphate, and chloride. <i>Journal of Biological Chemistry</i> , 1997 , 272, 32050-5	5.4	103
258	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, 14414-9	11.5	101
257	Evolution of allosteric models for hemoglobin. <i>IUBMB Life</i> , 2007 , 59, 586-99	4.7	93
256	"Muscle to meat" molecular events and technological transformations: the proteomics insight. <i>Journal of Proteomics</i> , 2012 , 75, 4275-89	3.9	85
255	Drug discovery targeting amino acid racemases. <i>Chemical Reviews</i> , 2011 , 111, 6919-46	68.1	83
254	Free energy of ligand binding to protein: evaluation of the contribution of water molecules by computational methods. <i>Current Medicinal Chemistry</i> , 2004 , 11, 3093-118	4.3	82
253	Robust classification of "relevant" water molecules in putative protein binding sites. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 1063-7	8.3	81

252	Active site plasticity in D-amino acid oxidase: a crystallographic analysis. <i>Biochemistry</i> , 1997 , 36, 5853-603.2	79
251	Monovalent cations affect dynamic and functional properties of the tryptophan synthase alpha 2 beta 2 complex. <i>Biochemistry</i> , 1995 , 34, 9459-65	3.2 78
250	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	8.3 77
249	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	6.5 75
248	Interaction of serine acetyltransferase with O-acetylserine sulfhydrylase active site: evidence from fluorescence spectroscopy. <i>Protein Science</i> , 2005 , 14, 2115-24	6.3 72
247	Allosteric regulation of tryptophan synthase: effects of pH, temperature, and alpha-subunit ligands on the equilibrium distribution of pyridoxal 5'-phosphate-L-serine intermediates. <i>Biochemistry</i> , 1996 , 35, 1872-80	3.2 72
246	High and low oxygen affinity conformations of T state hemoglobin. <i>Protein Science</i> , 2001 , 10, 2401-7	6.3 69
245	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, 4487-500	8.3 69
244	Design of O-acetylserine sulfhydrylase inhibitors by mimicking nature. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 345-56	8.3 67
243	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	4 64
242	Tryptophan synthase: a mine for enzymologists. <i>Cellular and Molecular Life Sciences</i> , 2009 , 66, 2391-403	10.3 62
241	Dynamics of green fluorescent protein mutant2 in solution, on spin-coated glasses, and encapsulated in wet silica gels. <i>Protein Science</i> , 2002 , 11, 1152-61	6.3 59
240	Conformational changes and subunit communication in tryptophan synthase: effect of substrates and substrate analogs. <i>Biochemistry</i> , 1992 , 31, 7535-42	3.2 55
239	Unfolding of Green Fluorescent Protein mut2 in wet nanoporous silica gels. <i>Protein Science</i> , 2005 , 14, 1125-33	6.3 54
238	Microspectrophotometric Studies on Single Crystals of the Tryptophan Synthase $\alpha\beta$ Complex Demonstrate Formation of Enzyme-Substrate Intermediates. <i>Journal of Biological Chemistry</i> , 1989 , 264, 15774-15780	5.4 54
237	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, 8315-30	3.2 53
236	The consequences of scoring docked ligand conformations using free energy correlations. <i>European Journal of Medicinal Chemistry</i> , 2007 , 42, 921-33	6.8 52
235	Kinetics of acid-induced spectral changes in the GFPmut2 chromophore. <i>Journal of the American Chemical Society</i> , 2005 , 127, 626-35	16.4 52

234	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, 2880-9	16.4	49
233	Functional properties of the active core of human cystathionine beta-synthase crystals. <i>Journal of Biological Chemistry</i> , 2001 , 276, 16-9	5.4	49
232	Energetics of the protein-DNA-water interaction. <i>BMC Structural Biology</i> , 2007 , 7, 4	2.7	48
231	Microspectrophotometry for structural enzymology. <i>Current Opinion in Structural Biology</i> , 2004 , 14, 656-62	8.2	48
230	Functional and spectroscopic characterization of half-liganded iron-zinc hybrid hemoglobin: evidence for conformational plasticity within the T state. <i>Biochemistry</i> , 2003 , 42, 8272-88	3.2	48
229	Bound water at protein-protein interfaces: partners, roles and hydrophobic bubbles as a conserved motif. <i>PLoS ONE</i> , 2011 , 6, e24712	3.7	48
228	Time-resolved methods in Biophysics. 2. Monitoring haem proteins at work with nanosecond laser flash photolysis. <i>Photochemical and Photobiological Sciences</i> , 2006 , 5, 1109-20	4.2	47
227	Exploring and exploiting allostery: Models, evolution, and drug targeting. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 922-33	4	46
226	Muscle and meat: new horizons and applications for proteomics on a farm to fork perspective. <i>Journal of Proteomics</i> , 2013 , 88, 58-82	3.9	45
225	Allosteric effectors do not alter the oxygen affinity of hemoglobin crystals. <i>Protein Science</i> , 1997 , 6, 484-93	4.3	45
224	Spectroscopic and functional characterization of T state hemoglobin conformations encapsulated in silica gels. <i>Biochemistry</i> , 2004 , 43, 13674-82	3.2	45
223	Structure and oxygen affinity of crystalline desArg141 alpha human hemoglobin A in the T state. <i>Journal of Molecular Biology</i> , 1995 , 248, 136-50	6.5	45
222	Anticooperative ligand binding properties of recombinant ferric <i>Vitreoscilla</i> homodimeric hemoglobin: a thermodynamic, kinetic and X-ray crystallographic study. <i>Journal of Molecular Biology</i> , 1999 , 291, 637-50	6.5	44
221	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, 18984-9	11.5	42
220	PEGylation promotes hemoglobin tetramer dissociation. <i>Bioconjugate Chemistry</i> , 2009 , 20, 1356-66	6.3	42
219	Cryocrystallography and microspectrophotometry of a mutant (alpha D60N) tryptophan synthase alpha 2 beta 2 complex reveals allosteric roles of alpha Asp60. <i>Biochemistry</i> , 1998 , 37, 10653-9	3.2	42
218	Allosteric mechanism of haemoglobin: rupture of salt-bridges raises the oxygen affinity of the T-structure. <i>Journal of Molecular Biology</i> , 1998 , 281, 581-5	6.5	42
217	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	5.4	41

216	Isozyme-specific ligands for O-acetylserine sulfhydrylase, a novel antibiotic target. <i>PLoS ONE</i> , 2013 , 8, e77558	3.7	39
215	Energy-based prediction of amino acid-nucleotide base recognition. <i>Journal of Computational Chemistry</i> , 2008 , 29, 1955-69	3.5	39
214	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, 1402-9	4.9	38
213	Exploring the pyridoxal 5'-phosphate-dependent enzymes. <i>Chemical Record</i> , 2006 , 6, 275-87	6.6	38
212	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 alpha 1 beta 2 interface. <i>Biochemistry</i> , 2001 , 40, 12357-68	3.2	38
211	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, 12758-63	11.5	37
210	Cooperative oxygen binding to scapharca inaequalvis hemoglobin in the crystal. <i>Journal of Biological Chemistry</i> , 1996 , 271, 3627-32	5.4	37
209	The multifaceted pyridoxal 5'-phosphate-dependent O-acetylserine sulfhydrylase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 1497-510	4	35
208	Discovery of covalent inhibitors of glyceraldehyde-3-phosphate dehydrogenase, a target for the treatment of malaria. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 7465-71	8.3	34
207	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	5	34
206	Functional characterization of heme proteins encapsulated in wet nanoporous silica gels. <i>Journal of Nanoscience and Nanotechnology</i> , 2001 , 1, 407-15	1.3	34
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204	Identification of a small molecule that increases hemoglobin oxygen affinity and reduces SS erythrocyte sickling. <i>ACS Chemical Biology</i> , 2014 , 9, 2318-25	4.9	32
203	Time-resolved fluorescence of O-acetylserine sulfhydrylase catalytic intermediates. <i>Biochemistry</i> , 1997 , 36, 15419-27	3.2	32
202	Serine racemase: a key player in neuron activity and in neuropathologies. <i>Frontiers in Bioscience - Landmark</i> , 2013 , 18, 1112-28	2.8	31
201	Trapping of the thioacylglyceraldehyde-3-phosphate dehydrogenase intermediate from <i>Bacillus stearothermophilus</i> . Direct evidence for a flip-flop mechanism. <i>Journal of Biological Chemistry</i> , 2008 , 283, 21693-702	5.4	31
200	Crystal structures of a new class of allosteric effectors complexed to tryptophan synthase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 10647-52	5.4	31
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198	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, 169-81	4	30
197	A two-step process controls the formation of the bienzyme cysteine synthase complex. <i>Journal of Biological Chemistry</i> , 2010 , 285, 12813-22	5.4	30
196	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, 425-37	4.2	30
195	Moonlighting O-acetylserine sulfhydrylase: New functions for an old protein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015 , 1854, 1184-93	4	29
194	Proteomic analysis of pork meat in the production of cooked ham. <i>Molecular BioSystems</i> , 2011 , 7, 2252-60		29
193	Tracking unfolding and refolding of single GFPmut2 molecules. <i>Biophysical Journal</i> , 2005 , 89, 2033-45	2.9	29
192	Time-resolved fluorescence of O-acetylserine sulfhydrylase. <i>BBA - Proteins and Proteomics</i> , 1999 , 1429, 317-30		29
191	Oxygen binding to heme proteins in solution, encapsulated in silica gels, and in the crystalline state. <i>Methods in Enzymology</i> , 2008 , 437, 311-28	1.7	28
190	Geminate rebinding in R-state hemoglobin: kinetic and computational evidence for multiple hydrophobic pockets. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17427-32	16.4	28
189	Computational titration analysis of a multiprotic HIV-1 protease-ligand complex. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11764-5	16.4	28
188	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, 11411-3	3.4	28
187	ATP binding to human serine racemase is cooperative and modulated by glycine. <i>FEBS Journal</i> , 2013 , 280, 5853-63	5.7	27
186	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, 224-33	3.8	27
185	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, 19523-8	3.4	27
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183	Allosteric communication of tryptophan synthase. Functional and regulatory properties of the beta S178P mutant. <i>Journal of Biological Chemistry</i> , 2001 , 276, 17747-53	5.4	27
182	Crystal structure of the beta Ser178--> Pro mutant of tryptophan synthase. A "knock-out" allosteric enzyme. <i>Journal of Biological Chemistry</i> , 2002 , 277, 10653-60	5.4	27
181	Experiments on Hemoglobin in Single Crystals and Silica Gels Distinguish among Allosteric Models. <i>Biophysical Journal</i> , 2015 , 109, 1264-72	2.9	26

180	Circular dichroism spectroscopy of tertiary and quaternary conformations of human hemoglobin entrapped in wet silica gels. <i>Protein Science</i> , 2006 , 15, 1961-7	6.3	26
179	Identification of the structural determinants for the stability of substrate and aminoacrylate external Schiff bases in O-acetylserine sulfhydrylase-A. <i>Biochemistry</i> , 2010 , 49, 6093-103	3.2	25
178	Ligand migration in nonsymbiotic hemoglobin AHb1 from <i>Arabidopsis thaliana</i> . <i>Journal of Physical Chemistry B</i> , 2007 , 111, 12582-90	3.4	25
177	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, 479-86	2.8	25
176	CO Rebinding Kinetics to Myoglobin- and R-State-Hemoglobin-Doped Silica Gels in the Presence of Glycerol. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8475-8484	3.4	25
175	Snapshots of the cystine lyase C-DES during catalysis. Studies in solution and in the crystalline state. <i>Journal of Biological Chemistry</i> , 2003 , 278, 357-65	5.4	25
174	Characterization of tryptophan and coenzyme luminescence in tryptophan synthase from <i>Salmonella typhimurium</i> . <i>Biochemistry</i> , 1992 , 31, 7527-34	3.2	25
173	Rational Design, Synthesis, and Preliminary Structure-Activity Relationships of Substituted-2-Phenylcyclopropane Carboxylic Acids as Inhibitors of <i>Salmonella typhimurium</i> O-Acetylserine Sulfhydrylase. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 2567-78	8.3	24
172	CO rebinding kinetics and molecular dynamics simulations highlight dynamic regulation of internal cavities in human cytoglobin. <i>PLoS ONE</i> , 2013 , 8, e49770	3.7	24
171	Identification of the geometric requirements for allosteric communication between the alpha- and beta-subunits of tryptophan synthase. <i>Journal of Biological Chemistry</i> , 2005 , 280, 13450-6	5.4	24
170	Enhanced geminate ligand rebinding upon photo-dissociation of silica gel-embedded myoglobin. <i>Chemical Physics Letters</i> , 2001 , 346, 430-436	2.5	24
169	Crystals of tryptophan indole-lyase and tyrosine phenol-lyase form stable quinonoid complexes. <i>Journal of Biological Chemistry</i> , 2002 , 277, 21592-7	5.4	24
168	Effect of chloride on oxygen binding to crystals of hemoglobin Rothschild (beta 37 Trp-->Arg) in the T quaternary structure. <i>Biochemistry</i> , 1993 , 32, 6411-8	3.2	24
167	Chemogenomic strategies to expand the bioactive chemical space. <i>Current Medicinal Chemistry</i> , 2009 , 16, 4374-81	4.3	23
166	Human kynurenine aminotransferase II--reactivity with substrates and inhibitors. <i>FEBS Journal</i> , 2011 , 278, 1882-900	5.7	22
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164	MediaChrom: Discovering a Class of Pyrimidoindolone-Based Polarity-Sensitive Dyes. <i>Journal of Organic Chemistry</i> , 2015 , 80, 10939-54	4.2	21
163	Targeting cystalysin, a virulence factor of <i>treponema denticola</i> -supported periodontitis. <i>ChemMedChem</i> , 2014 , 9, 1501-11	3.7	21

162	Proteomics of Parma Dry-Cured Ham: Analysis of Salting Exudates. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 6307-6316	5.7	21
161	Surface-exposed tryptophan residues are essential for O-acetylserine sulfhydrylase structure, function, and stability. <i>Journal of Biological Chemistry</i> , 2003 , 278, 37511-9	5.4	21
160	Time-resolved fluorescence of tryptophan synthase. <i>Biophysical Chemistry</i> , 1996 , 61, 9-22	3.5	21
159	Haemoglobin-based oxygen carriers: research and reality towards an alternative to blood transfusions. <i>Blood Transfusion</i> , 2010 , 8 Suppl 3, s59-68	3.6	21
158	Confinement and crowding effects on tryptophan synthase alpha2beta2 complex. <i>FEBS Letters</i> , 2005 , 579, 2197-202	3.8	20
157	Catalytic competence of O-acetylserine sulfhydrylase in the crystal probed by polarized absorption microspectrophotometry. <i>Journal of Molecular Biology</i> , 1998 , 283, 135-46	6.5	20
156	Catalytic activity of aspartate aminotransferase in the crystal. Equilibrium and kinetic analysis. <i>FEBS Journal</i> , 1979 , 98, 173-9		20
155	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, 8480-8486	5.4	20
154	Expanding the chemical space of human serine racemase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 4297-303	2.9	19
153	Cyclopropane-1,2-dicarboxylic acids as new tools for the biophysical investigation of O-acetylserine sulfhydrylases by fluorimetric methods and saturation transfer difference (STD) NMR. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 78-87	5.6	19
152	Engineering tyrosine electron transfer pathways decreases oxidative toxicity in hemoglobin: implications for blood substitute design. <i>Biochemical Journal</i> , 2016 , 473, 3371-83	3.8	19
151	Allosteric communication between alpha and beta subunits of tryptophan synthase: modelling the open-closed transition of the alpha subunit. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006 , 1764, 1102-9	4	19
150	Novel allosteric effectors of the tryptophan synthase alpha(2)beta(2) complex identified by computer-assisted molecular modeling. <i>BBA - Proteins and Proteomics</i> , 2000 , 1476, 287-99		19
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148	Structure and oxygen affinity of crystalline des-his-146beta human hemoglobin in the T state. <i>Journal of Biological Chemistry</i> , 1997 , 272, 33077-84	5.4	18
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143	Structural plasticity and functional implications of internal cavities in distal mutants of type 1 non-symbiotic hemoglobin AHb1 from Arabidopsis thaliana. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 16028-38	3.4	17
142	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	6.7	17
141	Immobilization of Proteins in Silica Gel: Biochemical and Biophysical Properties. <i>Current Organic Chemistry</i> , 2015 , 19, 1653-1668	1.7	17
140	Exploring methionine lyase structure-function relationship via microspectrophotometry and X-ray crystallography. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 834-42	4	16
139	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, 434-9	2.8	16
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137	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	5.4	16
136	Comparison of the oxidative reactivity of recombinant fetal and adult human hemoglobin: implications for the design of hemoglobin-based oxygen carriers. <i>Bioscience Reports</i> , 2018 , 38,	4.1	15
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133	Sulfur mobilization in cyanobacteria: the catalytic mechanism of L-cystine C-S lyase (C-DES) from synechocystis. <i>Journal of Biological Chemistry</i> , 2006 , 281, 38769-80	5.4	15
132	Hemoglobin-Based Oxygen Carriers: History, Limits, Brief Summary of the State of the Art, Including Clinical Trials		15
131	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	7.8	14
130	Hemoglobin, an "evergreen" red protein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 1317-24	4	14
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128	Protein carbonylation detection methods: A comparison. <i>Data in Brief</i> , 2018 , 19, 2215-2220	1.2	14
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126	Ligand migration and hexacoordination in type 1 non-symbiotic rice hemoglobin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 1042-53	4	13
125	Molecular heterogeneity of O-acetylserine sulfhydrylase by two-photon excited fluorescence fluctuation spectroscopy. <i>Biophysical Journal</i> , 2001 , 80, 1973-85	2.9	13
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