

# Andrea Mozzarelli

## List of Publications by Year in descending order

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252  
papers

7,906  
citations

47006

47  
h-index

82547

72  
g-index

306  
all docs

306  
docs citations

306  
times ranked

5892  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzyme Replacement Therapy for Genetic Disorders Associated with Enzyme Deficiency. <i>Current Medicinal Chemistry</i> , 2022, 29, 489-525.	2.4	12
2	From hemoglobin allosterity to hemoglobin-based oxygen carriers. <i>Molecular Aspects of Medicine</i> , 2022, 84, 101050.	6.4	15
3	Targeted Biologics: The New Frontier for Precision Therapy. <i>Current Medicinal Chemistry</i> , 2022, 29, 383-384.	2.4	2
4	Human Serine Racemase Weakly Binds the Third PDZ Domain of PSD-95. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4959.	4.1	1
5	Human serine racemase is inhibited by glyceraldehyde 3-phosphate, but not by glyceraldehyde 3-phosphate dehydrogenase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2021, 1869, 140544.	2.3	3
6	The allosteric interplay between S-nitrosylation and glycine binding controls the activity of human serine racemase. <i>FEBS Journal</i> , 2021, 288, 3034-3054.	4.7	8
7	Investigational Studies on a Hit Compound Cyclopropane- $\alpha$ -Carboxylic Acid Derivative Targeting O-Acetylserine Sulfhydrylase as a Colistin Adjuvant. <i>ACS Infectious Diseases</i> , 2021, 7, 281-292.	3.8	13
8	Discovery of Substituted (2-Aminooxazol-4-yl)Isoxazole-3-carboxylic Acids as Inhibitors of Bacterial Serine Acetyltransferase in the Quest for Novel Potential Antibacterial Adjuvants. <i>Pharmaceuticals</i> , 2021, 14, 174.	3.8	5
9	A Competitive O-Acetylserine Sulfhydrylase Inhibitor Modulates the Formation of Cysteine Synthase Complex. <i>Catalysts</i> , 2021, 11, 700.	3.5	4
10	Stability of Maleimide-PEG and Mono-Sulfone-PEG Conjugation to a Novel Engineered Cysteine in the Human Hemoglobin Alpha Subunit. <i>Frontiers in Chemistry</i> , 2021, 9, 707797.	3.6	4
11	A Key Silencing Histone Mark on Chromatin Is Lost When Colorectal Adenocarcinoma Cells Are Depleted of Methionine by Methionine $^{13}$ -Lyase. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 735303.	3.5	7
12	Modulation of Oxygen Affinity in Hemoglobin-based Oxygen Carriers. <i>Regenerative Medicine, Artificial Cells and Nanomedicine</i> , 2021, , 375-403.	0.1	1
13	Structural and Functional Characterization of the Globin-Coupled Sensors of <i>Azotobacter vinelandii</i> and <i>Bordetella pertussis</i> . <i>Antioxidants and Redox Signaling</i> , 2020, 32, 378-395.	5.4	4
14	SP-B and SP-C analogues within CHF5633 synthetic surfactant probed by fluorescence labeling. <i>Journal of Molecular Liquids</i> , 2020, 298, 111983.	4.9	2
15	Rational Design of a User-Friendly Aptamer/Peptide-Based Device for the Detection of <i>Staphylococcus aureus</i> . <i>Sensors</i> , 2020, 20, 4977.	3.8	7
16	Engineering hemoglobin to enable homogenous PEGylation without modifying protein functionality. <i>Biomaterials Science</i> , 2020, 8, 3896-3906.	5.4	16
17	Inhibition of Nonessential Bacterial Targets: Discovery of a Novel Serine O-Acetyltransferase Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 790-797.	2.8	17
18	Model-based evaluation of the microhemodynamic effects of PEGylated HBOC molecules in the rat brain cortex: a laser speckle imaging study. <i>Biomedical Optics Express</i> , 2020, 11, 4150.	2.9	2

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19	Is the protein profile of pig Longissimus dorsi affected by gender and diet?. Journal of Proteomics, 2019, 206, 103437.	2.4	8
20	Combination of SAXS and Protein Painting Discloses the Three-Dimensional Organization of the Bacterial Cysteine Synthase Complex, a Potential Target for Enhancers of Antibiotic Action. International Journal of Molecular Sciences, 2019, 20, 5219.	4.1	9
21	Engineering tyrosine residues into hemoglobin enhances heme reduction, decreases oxidative stress and increases vascular retention of a hemoglobin based blood substitute. Free Radical Biology and Medicine, 2019, 134, 106-118.	2.9	19
22	ADIFAB fluorescence data used for the quantification of free fatty acids in media at different pH. Data in Brief, 2019, 22, 158-163.	1.0	1
23	Editorial: Enzymes Regulating the Homeostasis of Agonists and Antagonists of the N-Methyl D-Aspartate Receptors. Frontiers in Molecular Biosciences, 2019, 6, 37.	3.5	0
24	Covalent Inhibitors of Plasmodium falciparum Glyceraldehyde 3-Phosphate Dehydrogenase with Antimalarial Activity in Vitro. ACS Medicinal Chemistry Letters, 2019, 10, 590-595.	2.8	13
25	More than a Confinement: "Soft" and "Hard" Enzyme Entrapment Modulates Biological Catalyst Function. Catalysts, 2019, 9, 1024.	3.5	12
26	Refining the structure-activity relationships of 2-phenylcyclopropane carboxylic acids as inhibitors of O-acetylserine sulfhydrylase isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 31-43.	5.2	12
27	Proteomics of Meat Products. , 2018, , 297-309.		1
28	Human serine racemase is nitrosylated at multiple sites. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 813-821.	2.3	11
29	Inhibition of O-acetylserine sulfhydrylase by fluoroalanine derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1343-1351.	5.2	12
30	Engineering methionine <sup>13</sup> S-lyase from Citrobacter freundii for anticancer activity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 1260-1270.	2.3	11
31	Phospholipid components of the synthetic pulmonary surfactant CHF5633 probed by fluorescence spectroscopy. International Journal of Pharmaceutics, 2018, 553, 290-297.	5.2	2
32	Insight into GFPmut2 pH Dependence by Single Crystal Microspectrophotometry and X-ray Crystallography. Journal of Physical Chemistry B, 2018, 122, 11326-11337.	2.6	3
33	Discovery of novel fragments inhibiting O-acetylserine sulphhydrylase by combining scaffold hopping and ligand-based drug design. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1444-1452.	5.2	17
34	Protein carbonylation detection methods: A comparison. Data in Brief, 2018, 19, 2215-2220.	1.0	20
35	Higher expression of miR-133b is associated with better efficacy of erlotinib as the second or third line in non-small cell lung cancer patients. PLoS ONE, 2018, 13, e0196350.	2.5	15
36	Soluble and Nanoporous Silica Gel-Entrapped C. freundii Methionine <sup>13</sup> S-Lyase. Journal of Nanoscience and Nanotechnology, 2018, 18, 2210-2219.	0.9	8

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37	Glutamine 89 is a key residue in the allosteric modulation of human serine racemase activity by ATP. <i>Scientific Reports</i> , 2018, 8, 9016.	3.3	12
38	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, .	2.4	22
39	The Energy Landscape of Human Serine Racemase. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 112.	3.5	28
40	High- and low-affinity PEGylated hemoglobin-based oxygen carriers: Differential oxidative stress in a Guinea pig transfusion model. <i>Free Radical Biology and Medicine</i> , 2018, 124, 299-310.	2.9	13
41	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
42	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
43	Modulation of <i>Escherichia coli</i> serine acetyltransferase catalytic activity in the cysteine synthase complex. <i>FEBS Letters</i> , 2017, 591, 1212-1224.	2.8	15
44	Activation of an anti-bacterial toxin by the biosynthetic enzyme CysK: mechanism of binding, interaction specificity and competition with cysteine synthase. <i>Scientific Reports</i> , 2017, 7, 8817.	3.3	7
45	Proteomics of Parma Dry-Cured Ham: Analysis of Salting Exudates. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 6307-6316.	5.2	27
46	Gene cloning, characterization, and cytotoxic activity of methionine S-adenosyltransferase from <i>Clostridium novyi</i> . <i>IUBMB Life</i> , 2017, 69, 668-676.	3.4	12
47	Insights on O-acetylserine sulfhydrylase structure, function and biopharmaceutical applications., 2017, , 211-222.		0
48	Insight of Saffron Proteome by Gel-Electrophoresis. <i>Molecules</i> , 2016, 21, 167.	3.8	12
49	Structural insight into the interaction of O-acetylserine sulfhydrylase with competitive, peptidic inhibitors by saturation transfer difference NMR. <i>FEBS Letters</i> , 2016, 590, 943-953.	2.8	10
50	Selectivity of 3-bromo-isoxazoline inhibitors between human and Plasmodium falciparum glyceraldehyde-3-phosphate dehydrogenases. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 2654-2659.	3.0	18
51	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.	5.2	21
52	Human serine racemase is allosterically modulated by NADH and reduced nicotinamide derivatives. <i>Biochemical Journal</i> , 2016, 473, 3505-3516.	3.7	11
53	Engineering tyrosine electron transfer pathways decreases oxidative toxicity in hemoglobin: implications for blood substitute design. <i>Biochemical Journal</i> , 2016, 473, 3371-3383.	3.7	23
54	Rational Design, Synthesis, and Preliminary Structure-Activity Relationships of $\beta$ -Substituted-2-Phenylcyclopropane Carboxylic Acids as Inhibitors of <i>Salmonella typhimurium</i> O-Acetylserine Sulfhydrylase. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 2567-2578.	6.4	28

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55	Cyclopropane derivatives as potential human serine racemase inhibitors: unveiling novel insights into a difficult target. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 645-652.	5.2	12
56	EGFR-related miRNAs as potential biomarkers of response to Erlotinib in metastatic NSCLC patients. <i>Annals of Oncology</i> , 2015, 26, vi81.	1.2	0
57	Experiments on Hemoglobin in Single Crystals and Silica Gels Distinguish among Allosteric Models. <i>Biophysical Journal</i> , 2015, 109, 1264-1272.	0.5	33
58	Understanding Water and Its Many Roles in Biological Structure: Ways to Exploit a Resource for Drug Discovery. <i>Methods in Pharmacology and Toxicology</i> , 2015, , 85-110.	0.2	0
59	Regulation of human serine racemase activity and dynamics by halides, ATP and malonate. <i>Amino Acids</i> , 2015, 47, 163-173.	2.7	21
60	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
61	Special Issue on "Cofactor-dependent proteins: Evolution, chemical diversity and bio-applications". <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1071-1072.	2.3	0
62	From protein structure to function via single crystal optical spectroscopy. <i>Frontiers in Molecular Biosciences</i> , 2015, 2, 12.	3.5	14
63	MediaChrom: Discovering a Class of Pyrimidoindolone-Based Polarity-Sensitive Dyes. <i>Journal of Organic Chemistry</i> , 2015, 80, 10939-10954.	3.2	24
64	Expanding the chemical space of human serine racemase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4297-4303.	2.2	22
65	Immobilization of Proteins in Silica Gel: Biochemical and Biophysical Properties. <i>Current Organic Chemistry</i> , 2015, 19, 1653-1668.	1.6	20
66	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
67	Ormosil gels doped with engineered catechol 1,2 dioxygenases for chlorocatechol bioremediation. <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 297-303.	3.1	1
68	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
69	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
70	Molecular insights into dimerization inhibition of c-Maf transcription factor. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 2108-2115.	2.3	13
71	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
72	Targeting Cystalyisin, a Virulence Factor of <i>Treponema denticola</i> Supported Periodontitis. <i>ChemMedChem</i> , 2014, 9, 1501-1511.	3.2	26

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73	<scp>ATP</scp> binding to human serine racemase is cooperative and modulated by glycine. FEBS Journal, 2013, 280, 5853-5863.	4.7	33
74	Unintended consequences? Water molecules at biological and crystallographic protein-protein interfaces. Computational Biology and Chemistry, 2013, 47, 126-141.	2.3	14
75	Fine tuning of the active site modulates specificity in the interaction of O-acetylserine sulfhydrylase isozymes with serine acetyltransferase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 169-181.	2.3	35
76	Role of tertiary structures on the Root effect in fish hemoglobins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1885-1893.	2.3	9
77	Oxygen binding and sensing proteins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1683.	2.3	0
78	Muscle and meat: New horizons and applications for proteomics on a farm to fork perspective. Journal of Proteomics, 2013, 88, 58-82.	2.4	53
79	Tertiary and Quaternary Allostery in Tetrameric Hemoglobin from <i>Scapharca inaequalvis</i> . Biochemistry, 2013, 52, 2108-2117.	2.5	7
80	Chemogenomics of pyridoxal 5-phosphate dependent enzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 183-194.	5.2	12
81	Asymmetry of the Active Site Loop Conformation between Subunits of Glutamate-1-semialdehyde Aminomutase in Solution. BioMed Research International, 2013, 2013, 1-10.	1.9	15
82	Development of a novel, hemolysis-resistant reagent for assessment of $\alpha$ -amylase in biological fluids. Clinical Chemistry and Laboratory Medicine, 2013, 51, 1409-15.	2.3	2
83	Serine racemase: a key player in neuron activity and in neuropathologies. Frontiers in Bioscience - Landmark, 2013, 18, 1112.	3.0	34
84	CO Rebinding Kinetics and Molecular Dynamics Simulations Highlight Dynamic Regulation of Internal Cavities in Human Cytochrome b5. PLoS ONE, 2013, 8, e49770.	2.5	28
85	Isozyme-Specific Ligands for O-acetylserine sulfhydrylase, a Novel Antibiotic Target. PLoS ONE, 2013, 8, e77558.	2.5	43
86	The role of salt in dry cured ham processing characterized by LC-MS/MS-based proteomics. , 2013, , 274-277.		0
87	Biochemistry of Hemoglobin. , 2013, , 55-73.		1
88	International Consortium for Development of Hemoglobin-Based Oxygen Carriers, Oxygen Therapeutics and Multifunctional Resuscitation Fluids - A White Paper. , 2013, , 737-746.		2
89	From Muscle to meat - molecular events and technological transformations: The proteomics insight. Journal of Proteomics, 2012, 75, 4275-4289.	2.4	115
90	Design and synthesis of trans-2-substituted-cyclopropane-1-carboxylic acids as the first non-natural small molecule inhibitors of O-acetylserine sulfhydrylase. MedChemComm, 2012, 3, 1111.	3.4	36

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91	The proteomic insight of the Italian dry cured ham manufacturing. , 2012, , 138-140.		0
92	From meat to food: the proteomics assessment. , 2012, , 31-34.		0
93	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
94	Proteomic analysis of pork meat in the production of cooked ham. Molecular BioSystems, 2011, 7, 2252.	2.9	32
95	Modulation of expression and polymerization of hemoglobin Polytaur, a potential blood substitute. Archives of Biochemistry and Biophysics, 2011, 505, 42-47.	3.0	14
96	Exploring O-acetylserine sulfhydrylase-B isoenzyme from Salmonella typhimurium by fluorescence spectroscopy. Archives of Biochemistry and Biophysics, 2011, 505, 178-185.	3.0	8
97	The multifaceted pyridoxal 5-phosphate-dependent O-acetylserine sulfhydrylase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1497-1510.	2.3	39
98	Drug Discovery Targeting Amino Acid Racemases. Chemical Reviews, 2011, 111, 6919-6946.	47.7	97
99	Human kynurenine aminotransferase reactivity with substrates and inhibitors. FEBS Journal, 2011, 278, 1882-1900.	4.7	25
100	Low affinity PEGylated hemoglobin from Trematomus bernacchii, a model for hemoglobin-based blood substitutes. BMC Biochemistry, 2011, 12, 66.	4.4	9
101	Oxygen binding to <i>Arabidopsis thaliana</i> AHb2 nonsymbiotic hemoglobin: evidence for a role in oxygen transport. IUBMB Life, 2011, 63, 355-362.	3.4	19
102	Oxygen and nitric oxide rebinding kinetics in nonsymbiotic hemoglobin AHb1 from <i>Arabidopsis thaliana</i> . IUBMB Life, 2011, 63, 1094-1100.	3.4	16
103	Electrophoretic analysis of PEGylated hemoglobin-based blood substitutes. Analytical Biochemistry, 2011, 408, 118-123.	2.4	9
104	Exploring methionine S-lyase structure-function relationship via microspectrophotometry and X-ray crystallography. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 834-842.	2.3	18
105	Ligand migration and hexacoordination in type 1 non-symbiotic rice hemoglobin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1042-1053.	2.3	15
106	Exploring and exploiting allostery: Models, evolution, and drug targeting. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 922-933.	2.3	60
107	Protein crystal microspectrophotometry. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 734-741.	2.3	11
108	X-ray crystallography marries spectroscopy to unveil structure and function of biological macromolecules. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 731-733.	2.3	12



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109	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
110	Polymerized and polyethylene glycol-conjugated hemoglobins: A globin-based calibration curve for dynamic light scattering analysis. <i>Analytical Biochemistry</i> , 2010, 401, 266-270.	2.4	5
111	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
112	Pyridoxal 5-Phosphate-Dependent Enzymes: Catalysis, Conformation, and Genomics. , 2010, , 273-350.		12
113	Identification of the Structural Determinants for the Stability of Substrate and Aminoacrylate External Schiff Bases in <i>O</i> -Acetylserine Sulfhydrylase-A. <i>Biochemistry</i> , 2010, 49, 6093-6103.	2.5	25
114	Design of <i>O</i> -Acetylserine Sulfhydrylase Inhibitors by Mimicking Nature. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 345-356.	6.4	75
115	Haemoglobin-based oxygen carriers: research and reality towards an alternative to blood transfusions. <i>Blood Transfusion</i> , 2010, 8 Suppl 3, s59-68.	0.4	24
116	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
117	Tryptophan synthase: a mine for enzymologists. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 2391-2403.	5.4	83
118	Hemoglobin, an "evergreen" red protein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 1317-1324.	2.3	15
119	Correlation of protein functional properties in the crystal and in solution: The case study of T-state hemoglobin. <i>Protein Science</i> , 2009, 11, 1845-1849.	7.6	10
120	PEGylation Promotes Hemoglobin Tetramer Dissociation. <i>Bioconjugate Chemistry</i> , 2009, 20, 1356-1366.	3.6	45
121	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
122	Cofactor Chemogenomics. <i>Methods in Molecular Biology</i> , 2009, 575, 93-122.	0.9	6
123	Structural Plasticity and Functional Implications of Internal Cavities in Distal Mutants of Type 1 Non-Symbiotic Hemoglobin AHb1 from <i>Arabidopsis thaliana</i> . <i>Journal of Physical Chemistry B</i> , 2009, 113, 16028-16038.	2.6	20
124	Chemogenomic Strategies to Expand the Bioactive Chemical Space. <i>Current Medicinal Chemistry</i> , 2009, 16, 4374-4381.	2.4	23
125	Energy-based prediction of amino acid-nucleotide base recognition. <i>Journal of Computational Chemistry</i> , 2008, 29, 1955-1969.	3.3	44
126	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



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127	Hemoglobin-based oxygen carriers as blood substitutes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1363-1364.	2.3	12
128	High and low oxygen affinity conformations of T state hemoglobin. <i>Protein Science</i> , 2008, 10, 2401-2407.	7.6	74
129	Ligand-Induced Tertiary Relaxations During the T-to-R Quaternary Transition in Hemoglobin. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12790-12794.	2.6	10
130	Characterization of Ligand Migration Mechanisms inside Hemoglobins from the Analysis of Geminate Rebinding Kinetics. <i>Methods in Enzymology</i> , 2008, 437, 329-345.	1.0	4
131	Robust Classification of "Relevant" Water Molecules in Putative Protein Binding Sites. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1063-1067.	6.4	93
132	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
133	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
134	Trapping Hemoglobin in Rigid Matrices: Fine Tuning of Oxygen Binding Properties by Modulation of Encapsulation Protocols. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2007, 35, 69-79.	0.9	10
135	Pyridoxal 5-Phosphate Enzymes as Targets for Therapeutic Agents. <i>Current Medicinal Chemistry</i> , 2007, 14, 1291-1324.	2.4	177
136	Hemocyanin from <i>E. californicum</i> encapsulated in silica gels: Oxygen binding and conformational states. <i>Gene</i> , 2007, 398, 202-207.	2.2	7
137	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
138	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
139	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
140	Ligand Migration in Nonsymbiotic Hemoglobin AHb1 from <i>Arabidopsis thaliana</i> . <i>Journal of Physical Chemistry B</i> , 2007, 111, 12582-12590.	2.6	27
141	Control of Ionizable Residues in the Catalytic Mechanism of Tryptophan Synthase from <i>Salmonella typhimurium</i> . <i>Biochemistry</i> , 2007, 46, 13223-13234.	2.5	12
142	Evidence of Discrete Substates and Unfolding Pathways in Green Fluorescent Protein. <i>Biophysical Journal</i> , 2007, 92, 1724-1731.	0.5	16
143	Complexity in Modeling and Understanding Protonation States: Computational Titration of HIV-1 Protease Inhibitor Complexes. <i>Chemistry and Biodiversity</i> , 2007, 4, 2564-2577.	2.1	10
144	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

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145	Energetics of the protein-DNA-water interaction. BMC Structural Biology, 2007, 7, 4.	2.3	57
146	Evolution of allosteric models for hemoglobin. IUBMB Life, 2007, 59, 586-599.	3.4	103
147	Environment effects on the oscillatory unfolding kinetics of GFP. European Biophysics Journal, 2007, 36, 795-803.	2.2	5
148	Monitoring the T $\leftrightarrow$ R transition of human hemoglobin encapsulated in silica gels. FASEB Journal, 2007, 21, A637.	0.5	0
149	Time-resolved methods in Biophysics. 2. Monitoring haem proteins at work with nanosecond laser flash photolysis. Photochemical and Photobiological Sciences, 2006, 5, 1109.	2.9	53
150	Mapping the Energetics of Water $\leftrightarrow$ Protein and Water $\leftrightarrow$ Ligand Interactions with the $\alpha$ -Natural $\alpha$ -HINT Forcefield: Predictive Tools for Characterizing the Roles of Water in Biomolecules. Journal of Molecular Biology, 2006, 358, 289-309.	4.2	85
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