List of Publications by Year in descending order

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STEEANO RRUNO

#	Article	IF	CITATIONS
1	From 3D reconstruction to virtual reality: A complete methodology for digital archaeological exhibition. Journal of Cultural Heritage, 2010, 11, 42-49.	3.3	304
2	Structural basis for the oxidation of thiosulfate by a sulfur cycle enzyme. EMBO Journal, 2002, 21, 5599-5610.	7.8	143
3	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. Journal of Biological Chemistry, 2004, 279, 363-373.	3.4	129
4	A Review of Low Back Pain and Musculoskeletal Disorders among Italian Nursing Personnel. Industrial Health, 2007, 45, 637-644.	1.0	120
5	New insights into allosteric mechanisms from trapping unstable protein conformations in silica gels. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14414-14419.	7.1	110
6	The SoxYZ Complex Carries Sulfur Cycle Intermediates on a Peptide Swinging Arm*. Journal of Biological Chemistry, 2007, 282, 23194-23204.	3.4	90
7	High and low oxygen affinity conformations of T state hemoglobin. Protein Science, 2008, 10, 2401-2407.	7.6	74
8	Enzymes from Marine Polar Regions and Their Biotechnological Applications. Marine Drugs, 2019, 17, 544.	4.6	69
9	Functional Properties of the Active Core of Human Cystathionine β-Synthase Crystals. Journal of Biological Chemistry, 2001, 276, 16-19.	3.4	58
10	The Reactivity with CO of AHb1 and AHb2 from Arabidopsis thaliana is Controlled by the Distal HisE7 and Internal Hydrophobic Cavities. Journal of the American Chemical Society, 2007, 129, 2880-2889.	13.7	54
11	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
12	UCP2 inhibition induces ROS/Akt/mTOR axis: Role of GAPDH nuclear translocation in genipin/everolimus anticancer synergism. Free Radical Biology and Medicine, 2017, 113, 176-189.	2.9	52
13	Functional and Spectroscopic Characterization of Half-Liganded Ironâ^'Zinc Hybrid Hemoglobin: Evidence for Conformational Plasticity within the T State,. Biochemistry, 2003, 42, 8272-8288.	2.5	49
14	Ligand migration through the internal hydrophobic cavities in human neuroglobin. Proceedings of the United States of America, 2009, 106, 18984-18989.	7.1	47
15	Discovery of Covalent Inhibitors of Glyceraldehyde-3-phosphate Dehydrogenase, A Target for the Treatment of Malaria. Journal of Medicinal Chemistry, 2014, 57, 7465-7471.	6.4	47
16	PEGylation Promotes Hemoglobin Tetramer Dissociation. Bioconjugate Chemistry, 2009, 20, 1356-1366.	3.6	45
17	Mutant p53 prevents GAPDH nuclear translocation in pancreatic cancer cells favoring glycolysis and 2-deoxyglucose sensitivity. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 1914-1923.	4.1	45
18	Towards a novel haemoglobin-based oxygen carrier: Euro-PEG-Hb, physico-chemical properties, vasoactivity and renal filtration. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1402-1409.	2.3	42

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19	Mutational Effects at the Subunit Interfaces of Human Hemoglobin:Â Evidence for a Unique Sensitivity of the T Quaternary State to Changes in the Hinge Region of the α1β2 Interfaceâ€. Biochemistry, 2001, 40, 12357-12368.	2.5	38
20	Functional Characterization of Heme Proteins Encapsulated in Wet Nanoporous Silica Gels. Journal of Nanoscience and Nanotechnology, 2001, 1, 407-415.	0.9	35
21	Trapping of the Thioacylglyceraldehyde-3-phosphate Dehydrogenase Intermediate from Bacillus stearothermophilus. Journal of Biological Chemistry, 2008, 283, 21693-21702.	3.4	35
22	<scp>ATP</scp> binding to human serine racemase is cooperative and modulated by glycine. FEBS Journal, 2013, 280, 5853-5863.	4.7	33
23	Experiments on Hemoglobin in Single Crystals and Silica Gels Distinguish among Allosteric Models. Biophysical Journal, 2015, 109, 1264-1272.	0.5	33
24	Different roles of protein dynamics and ligand migration in non-symbiotic hemoglobins AHb1 and AHb2 from Arabidopsis thaliana. Gene, 2007, 398, 224-233.	2.2	32
25	Musculoskeletal Complaints among Italian X-ray Technologists. Industrial Health, 2007, 45, 705-708.	1.0	31
26	Oxygen Binding to Heme Proteins in Solution, Encapsulated in Silica Gels, and in the Crystalline State. Methods in Enzymology, 2008, 437, 311-328.	1.0	29
27	CO Rebinding Kinetics and Molecular Dynamics Simulations Highlight Dynamic Regulation of Internal Cavities in Human Cytoglobin. PLoS ONE, 2013, 8, e49770.	2.5	28
28	The Energy Landscape of Human Serine Racemase. Frontiers in Molecular Biosciences, 2018, 5, 112.	3.5	28
29	Biophysical Characterisation of Neuroglobin of the Icefish, a Natural Knockout for Hemoglobin and Myoglobin. Comparison with Human Neuroglobin. PLoS ONE, 2012, 7, e44508.	2.5	28
30	Snapshots of the Cystine Lyase C-DES during Catalysis. Journal of Biological Chemistry, 2003, 278, 357-365.	3.4	27
31	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
32	Ligand Migration in Nonsymbiotic Hemoglobin AHb1 from Arabidopsis thaliana. Journal of Physical Chemistry B, 2007, 111, 12582-12590.	2.6	27
33	The Greenland shark Somniosus microcephalus—Hemoglobins and ligand-binding properties. PLoS ONE, 2017, 12, e0186181.	2.5	27
34	Crystals of Tryptophan Indole-Lyase and Tyrosine Phenol-Lyase Form Stable Quinonoid Complexes. Journal of Biological Chemistry, 2002, 277, 21592-21597.	3.4	26
35	Targeting Cystalysin, a Virulence Factor of <i>Treponema denticolaâ€</i> Supported Periodontitis. ChemMedChem, 2014, 9, 1501-1511.	3.2	26
36	Enhanced geminate ligand rebinding upon photo-dissociation of silica gel-embedded myoglobin–CO. Chemical Physics Letters, 2001, 346, 430-436.	2.6	25

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37	Ligand Uptake Modulation by Internal Water Molecules and Hydrophobic Cavities in Hemoglobins. Journal of Physical Chemistry B, 2014, 118, 1234-1245.	2.6	25
38	X-ray crystallography, mass spectrometry and single crystal microspectrophotometry: A multidisciplinary characterization of catechol 1,2 dioxygenase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 817-823.	2.3	24
39	Haemoglobin-based oxygen carriers: research and reality towards an alternative to blood transfusion, 2010, 8 Suppl 3, s59-68.	0.4	24
40	Targeting the Eph/Ephrin System as Anti-Inflammatory Strategy in IBD. Frontiers in Pharmacology, 2019, 10, 691.	3.5	22
41	Following Ligand Migration Pathways from Picoseconds to Milliseconds in Type II Truncated Hemoglobin from Thermobifida fusca. PLoS ONE, 2012, 7, e39884.	2.5	22
42	Ligand reactivity and allosteric regulation of hemoglobin-based oxygen carriers. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1365-1377.	2.3	21
43	Regulation of human serine racemase activity and dynamics by halides, ATP and malonate. Amino Acids, 2015, 47, 163-173.	2.7	21
44	Structural Plasticity and Functional Implications of Internal Cavities in Distal Mutants of Type 1 Non-Symbiotic Hemoglobin AHb1 fromArabidopsis thaliana. Journal of Physical Chemistry B, 2009, 113, 16028-16038.	2.6	20
45	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
46	Engineered chimeras reveal the structural basis of hexacoordination in globins: A case study of neuroglobin and myoglobin. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 169-177.	2.4	20
47	Protein carbonylation detection methods: A comparison. Data in Brief, 2018, 19, 2215-2220.	1.0	20
48	Immobilization of Proteins in Silica Gel: Biochemical and Biophysical Properties. Current Organic Chemistry, 2015, 19, 1653-1668.	1.6	20
49	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
50	Heterogeneous Kinetics of the Carbon Monoxide Association and Dissociation Reaction to Nitrophorin 4 and 7 Coincide with Structural Heterogeneity of the Gate-Loop. Journal of the American Chemical Society, 2012, 134, 9986-9998.	13.7	19
51	Zinc-Substituted Myoglobin Is a Naturally Occurring Photo-antimicrobial Agent with Potential Applications in Food Decontamination. Journal of Agricultural and Food Chemistry, 2016, 64, 8633-8639.	5.2	19
52	Selectivity of 3-bromo-isoxazoline inhibitors between human and Plasmodium falciparum glyceraldehyde-3-phosphate dehydrogenases. Bioorganic and Medicinal Chemistry, 2016, 24, 2654-2659.	3.0	18
53	Site-directed mutations of human hemoglobin at residue 35l²: A residue at the intersection of the l±1l²1, l±1l²2, and l±1l±2 interfaces. Protein Science, 2001, 10, 1847-1855.	7.6	17
54	Magnesium and calcium ions differentially affect human serine racemase activity and modulate its quaternary equilibrium toward a tetrameric form. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 381-387.	2.3	17

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55	Mycobacterial and Human Nitrobindins: Structure and Function. Antioxidants and Redox Signaling, 2020, 33, 229-246.	5.4	17
56	Oxygen and nitric oxide rebinding kinetics in nonsymbiotic hemoglobin AHb1 from <i>Arabidopsis thaliana</i> . IUBMB Life, 2011, 63, 1094-1100.	3.4	16
57	Molecular basis for covalent inhibition of glyceraldehydeâ€3â€phosphate dehydrogenase by a 2â€phenoxyâ€1,4â€naphthoquinone small molecule. Chemical Biology and Drug Design, 2017, 90, 225-235.	3.2	16
58	Extracellular Vesicles Derived from Mesenchymal Stromal Cells Delivered during Hypothermic Oxygenated Machine Perfusion Repair Ischemic/Reperfusion Damage of Kidneys from Extended Criteria Donors. Biology, 2022, 11, 350.	2.8	16
59	Structural heterogeneity and ligand gating in ferric <i>methanosarcina acetivorans</i> protoglobin mutants. IUBMB Life, 2011, 63, 287-294.	3.4	15
60	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
61	From hemoglobin allostery to hemoglobin-based oxygen carriers. Molecular Aspects of Medicine, 2022, 84, 101050.	6.4	15
62	Modulation of expression and polymerization of hemoglobin Polytaur, a potential blood substitute. Archives of Biochemistry and Biophysics, 2011, 505, 42-47.	3.0	14
63	From protein structure to function via single crystal optical spectroscopy. Frontiers in Molecular Biosciences, 2015, 2, 12.	3.5	14
64	Oxygen binding by single red blood cells from the red-eared turtle Trachemys scripta. Journal of Applied Physiology, 2001, 90, 1679-1684.	2.5	13
65	Oxygen binding by α(Fe ²⁺) ₂ β(Ni ²⁺) ₂ hemoglobin crystals. Protein Science, 2000, 9, 683-692.	7.6	13
66	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
67	High- and low-affinity PEGylated hemoglobin-based oxygen carriers: Differential oxidative stress in a Guinea pig transfusion model. Free Radical Biology and Medicine, 2018, 124, 299-310.	2.9	13
68	Structure and dynamics of the membrane attaching nitric oxide transporter nitrophorin 7. F1000Research, 0, 4, 45.	1.6	13
69	Ligation Tunes Protein Reactivity in an Ancient Haemoglobin: Kinetic Evidence for an Allosteric Mechanism in Methanosarcina acetivorans Protoglobin. PLoS ONE, 2012, 7, e33614.	2.5	13
70	ATP regulation of the ligand-binding properties in temperate and cold-adapted haemoglobins. X-ray structure and ligand-binding kinetics in the sub-Antarctic fish Eleginops maclovinus. Molecular BioSystems, 2012, 8, 3295.	2.9	12
71	Glutamine 89 is a key residue in the allosteric modulation of human serine racemase activity by ATP. Scientific Reports, 2018, 8, 9016.	3.3	12
72	More than a Confinement: "Soft―and "Hard―Enzyme Entrapment Modulates Biological Catalyst Function. Catalysts, 2019, 9, 1024.	3.5	12

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73	Protein crystal microspectrophotometry. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 734-741.	2.3	11
74	Human serine racemase is allosterically modulated by NADH and reduced nicotinamide derivatives. Biochemical Journal, 2016, 473, 3505-3516.	3.7	11
75	Characterization of the Heme Pocket Structure and Ligand Binding Kinetics of Non-symbiotic Hemoglobins from the Model Legume Lotus japonicus. Frontiers in Plant Science, 2017, 8, 407.	3.6	11
76	Human serine racemase is nitrosylated at multiple sites. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 813-821.	2.3	11
77	Trapping Hemoglobin in Rigid Matrices: Fine Tuning of Oxygen Binding Properties by Modulation of Encapsulation Protocols. Artificial Cells, Blood Substitutes, and Biotechnology, 2007, 35, 69-79.	0.9	10
78	Ligand-Induced Tertiary Relaxations During the T-to-R Quaternary Transition in Hemoglobin. Journal of Physical Chemistry B, 2008, 112, 12790-12794.	2.6	10
79	Correlation of protein functional properties in the crystal and in solution: The case study of T-state hemoglobin. Protein Science, 2009, 11, 1845-1849.	7.6	10
80	Structural and functional properties of Antarctic fish cytoglobins-1: Cold-reactivity in multi-ligand reactions. Computational and Structural Biotechnology Journal, 2020, 18, 2132-2144.	4.1	10
81	Mycobacterial and Human Ferrous Nitrobindins: Spectroscopic and Reactivity Properties. International Journal of Molecular Sciences, 2021, 22, 1674.	4.1	10
82	Low affinity PEGylated hemoglobin from Trematomus bernacchii, a model for hemoglobin-based blood substitutes. BMC Biochemistry, 2011, 12, 66.	4.4	9
83	Electrophoretic analysis of PEGylated hemoglobin-based blood substitutes. Analytical Biochemistry, 2011, 408, 118-123.	2.4	9
84	â€~Cool' adaptations to cold environments: globins in Notothenioidei (Actynopterygii, Perciformes). Hydrobiologia, 2015, 761, 293-312.	2.0	9
85	Polymerization of hemoglobins in Arctic fish: <i>Lycodes reticulatus</i> and <i>Gadus morhua</i> . IUBMB Life, 2011, 63, 346-354.	3.4	8
86	The allosteric interplay between Sâ€nitrosylation and glycine binding controls the activity of human serine racemase. FEBS Journal, 2021, 288, 3034-3054.	4.7	8
87	3-Bromo-Isoxazoline Derivatives Inhibit GAPDH Enzyme in PDAC Cells Triggering Autophagy and Apoptotic Cell Death. Cancers, 2022, 14, 3153.	3.7	8
88	Structure and dynamics of the membrane attaching nitric oxide transporter nitrophorin 7. F1000Research, 2015, 4, 45.	1.6	7
89	Tertiary and quaternary effects in the allosteric regulation of animal hemoglobins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1860-1872.	2.3	6
90	Cold-Adaptation Signatures in the Ligand Rebinding Kinetics to the Truncated Hemoglobin of the Antarctic Bacterium <i>Pseudoalteromonas haloplanktis</i> TAC125. Journal of Physical Chemistry B, 2018, 122, 11649-11661.	2.6	6

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91	Polymerized and polyethylene glycol-conjugated hemoglobins: A globin-based calibration curve for dynamic light scattering analysis. Analytical Biochemistry, 2010, 401, 266-270.	2.4	5
92	A Novel Assay for Phosphoserine Phosphatase Exploiting Serine Acetyltransferase as the Coupling Enzyme. Life, 2021, 11, 485.	2.4	5
93	Immobilization of Proteins in Ormosil Gels: Functional Properties and Applications. Current Organic Chemistry, 2015, 19, 1677-1683.	1.6	5
94	Characterization of Ligand Migration Mechanisms inside Hemoglobins from the Analysis of Geminate Rebinding Kinetics. Methods in Enzymology, 2008, 437, 329-345.	1.0	4
95	New isoforms of human mitochondrial transcription factor A detected in normal and tumoral cells. Mitochondrion, 2011, 11, 287-295.	3.4	4
96	Electrostatic Tuning of the Ligand Binding Mechanism by Glu27 in Nitrophorin 7. Scientific Reports, 2018, 8, 10855.	3.3	4
97	Structural and Functional Characterization of the Globin-Coupled Sensors ofAzotobacter vinelandiiandBordetella pertussis. Antioxidants and Redox Signaling, 2020, 32, 378-395.	5.4	4
98	Augmentation Therapy with Alpha-1 Antitrypsin: Present and Future of Production, Formulation, and Delivery. Current Medicinal Chemistry, 2022, 29, 385-410.	2.4	4
99	Structural Bases for the Regulation of CO Binding in the Archaeal Protoglobin from Methanosarcina acetivorans. PLoS ONE, 2015, 10, e0125959.	2.5	3
100	Functional characterisation of the haemoglobins of the migratory notothenioid fish Dissostichus eleginoides. Hydrobiologia, 2015, 761, 315-333.	2.0	3
101	Human serine racemase is inhibited by glyceraldehyde 3-phosphate, but not by glyceraldehyde 3-phosphate dehydrogenase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2021, 1869, 140544.	2.3	3
102	A photosensitizing fusion protein with targeting capabilities. Biomolecular Concepts, 2022, 13, 175-182.	2.2	3
103	Targeted Biologics: The New Frontier for Precision Therapy. Current Medicinal Chemistry, 2022, 29, 383-384.	2.4	2
104	Probing the Role of Murine Neuroglobin CDloop–D-Helix Unit in CO Ligand Binding and Structural Dynamics. ACS Chemical Biology, 0, , .	3.4	2
105	Ormosil gels doped with engineered catechol 1,2 dioxygenases for chlorocatechol bioremediation. Biotechnology and Applied Biochemistry, 2014, 61, 297-303.	3.1	1
106	Biochemistry of Hemoglobin. , 2013, , 55-73.		1
107	Human Serine Racemase Weakly Binds the Third PDZ Domain of PSD-95. International Journal of Molecular Sciences, 2022, 23, 4959.	4.1	1

Editorial (Thematic Issue: Organic Polymeric Matrices for the Three-dimensional Immobilization of) Tj ETQq000 rgBT/Overlock 10 Tf 50

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109	Unusually Fast bis-Histidyl Coordination in a Plant Hemoglobin. International Journal of Molecular Sciences, 2021, 22, 2740.	4.1	Ο
110	Monitoring the Tâ€R transition of human hemoglobin encapsulated in silica gels. FASEB Journal, 2007, 21, A637.	0.5	0