

Beatrice Vallone

List of Publications by Year in descending order

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86
papers

3,584
citations

136740

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138251

58
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all docs

86
docs citations

86
times ranked

3433
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroglobin, clues to function and mechanism. <i>Molecular Aspects of Medicine</i> , 2022, 84, 101055.	2.7	12
2	Point Mutations at a Key Site Alter the Cytochrome P450 OleP Structural Dynamics. <i>Biomolecules</i> , 2022, 12, 55.	1.8	6
3	Dissecting the Cytochrome P450 OleP Substrate Specificity: Evidence for a Preferential Substrate. <i>Biomolecules</i> , 2020, 10, 1411.	1.8	6
4	Lack of orientation selectivity of the heme insertion in murine neuroglobin revealed by resonance Raman spectroscopy. <i>FEBS Journal</i> , 2020, 287, 4082-4097.	2.2	13
5	Cryo-EM structure of the human ferritinâ€“transferrin receptor 1 complex. <i>Nature Communications</i> , 2019, 10, 1121.	5.8	100
6	Proximal and distal control for ligand binding in neuroglobin: role of the CD loop and evidence for His64 gating. <i>Scientific Reports</i> , 2019, 9, 5326.	1.6	10
7	Substrateâ€“induced conformational change in cytochrome P450 OleP. <i>FASEB Journal</i> , 2019, 33, 1787-1800.	0.2	14
8	Ligand pathways in neuroglobin revealed by low-temperature photodissociation and docking experiments. <i>IUCr</i> , 2019, 6, 832-842.	1.0	8
9	Effects of Y361â€“autoâ€“phosphorylation on structural plasticity of the HIPK2 kinase domain. <i>Protein Science</i> , 2018, 27, 725-737.	3.1	4
10	Subcellular localization of the five members of the human steroid 5 β -reductase family. <i>Biochimie Open</i> , 2017, 4, 99-106.	3.2	11
11	Humanized archaeal ferritin as a tool for cell targeted delivery. <i>Nanoscale</i> , 2017, 9, 647-655.	2.8	29
12	Structure of the adenylation domain Thr1 involved in the biosynthesis of 4â€“chlorothreonine in <i>Streptomyces</i> sp. <i>OH</i> â€“protein flexibility and molecular bases of substrate specificity. <i>FEBS Journal</i> , 2017, 284, 2981-2999.	2.2	13
13	Determinants of neuroglobin plasticity highlighted by joint coarse-grained simulations and high pressure crystallography. <i>Scientific Reports</i> , 2017, 7, 1858.	1.6	7
14	Mapping Hydrophobic Tunnels and Cavities in Neuroglobin with Noble Gas under Pressure. <i>Biophysical Journal</i> , 2017, 113, 2199-2206.	0.2	14
15	Functional analysis and crystallographic structure of clotrimazole bound OleP, a cytochrome P450 epoxidase from <i>Streptomyces antibioticus</i> involved in oleandomycin biosynthesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 465-475.	1.1	19
16	¹ H, ¹⁵ N and ¹³ C Backbone resonance assignments of murine met-neuroglobin, free and in complex with cyanide. <i>Biomolecular NMR Assignments</i> , 2015, 9, 153-156.	0.4	2
17	Engineering the internal cavity of neuroglobin demonstrates the role of the haem-sliding mechanism. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 1640-1648.	2.5	16
18	Crystallographic Studies with Xenon and Nitrous Oxide Provide Evidence for Protein-dependent Processes in the Mechanisms of General Anesthesia. <i>Anesthesiology</i> , 2014, 121, 1018-1027.	1.3	25

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19	Time-resolved crystallography for protein structure: the case of heme proteins. <i>Rendiconti Lincei</i> , 2013, 24, 101-107.	1.0	1
20	Low-cost equilibrium unfolding of heme proteins using 2 μ l samples. <i>Analytical Biochemistry</i> , 2013, 443, 13-15.	1.1	5
21	Redirecting P450 EryK Specificity by Rational Site-Directed Mutagenesis. <i>Biochemistry</i> , 2013, 52, 3678-3687.	1.2	4
22	An Open Flow Helium Cryostat for Synchrotron X-ray Diffraction Experiments. <i>Journal of Physics: Conference Series</i> , 2013, 425, 012015.	0.3	4
23	The Monod-Wyman-Changeux allosteric model accounts for the quaternary transition dynamics in wild type and a recombinant mutant human hemoglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14894-14899.	3.3	33
24	Neuroglobin α prion protein interaction: what's the function?. <i>Journal of Peptide Science</i> , 2011, 17, 387-391.	0.8	14
25	Polarized X-ray Absorption Near-Edge Structure Spectroscopy of Neuroglobin and Myoglobin Single Crystals. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13223-13231.	1.2	12
26	Azole Drugs Trap Cytochrome P450 EryK in Alternative Conformational States,. <i>Biochemistry</i> , 2010, 49, 9199-9206.	1.2	18
27	Glyphosate Resistance by Engineering the Flavoenzyme Glycine Oxidase. <i>Journal of Biological Chemistry</i> , 2009, 284, 36415-36423.	1.6	70
28	Pattern of cavities in globins: The case of human hemoglobin. <i>Biopolymers</i> , 2009, 91, 1097-1107.	1.2	57
29	Failure of apoptosis-inducing factor to act as neuroglobin reductase. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 121-124.	1.0	13
30	The Structure of Neuroglobin at High Xe and Kr Pressure Reveals Partial Conservation of Globin Internal Cavities. <i>Biophysical Journal</i> , 2009, 97, 1700-1708.	0.2	32
31	Investigating the Structural Plasticity of a Cytochrome P450. <i>Journal of Biological Chemistry</i> , 2009, 284, 29170-29179.	1.6	66
32	Is neuroglobin a signal transducer?. <i>IUBMB Life</i> , 2008, 60, 410-413.	1.5	13
33	Molecular Dynamics Simulation of the Neuroglobin Crystal: Comparison with the Simulation in Solution. <i>Biophysical Journal</i> , 2008, 95, 4157-4162.	0.2	26
34	An X-ray diffraction and X-ray absorption spectroscopy joint study of neuroglobin. <i>Archives of Biochemistry and Biophysics</i> , 2008, 475, 7-13.	1.4	50
35	Neuroglobin: Enzymatic reduction and oxygen affinity. <i>Biochemical and Biophysical Research Communications</i> , 2008, 367, 893-898.	1.0	43
36	Structural Dynamics of Myoglobin. <i>Methods in Enzymology</i> , 2008, 437, 397-416.	0.4	13

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37	Cloning, Expression, Purification, Crystallization and Preliminary X-Ray Crystallographic Analysis of C-12 Hydroxylase EryK from <i>Saccharopolyspora erythraea</i> . <i>Protein and Peptide Letters</i> , 2008, 15, 1138-1141.	0.4	7
38	X-ray structure analysis of a metalloprotein with enhanced active-site resolution using in situ x-ray absorption near edge structure spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6211-6216.	3.3	64
39	Time-resolved methods in biophysics. 6. Time-resolved Laue crystallography as a tool to investigate photo-activated protein dynamics. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 1047-1056.	1.6	42
40	Molecular Dynamics Simulation of Deoxy and Carboxy Murine Neuroglobin in Water. <i>Biophysical Journal</i> , 2007, 93, 434-441.	0.2	42
41	Neuroglobin, seven years after. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 1259-1268.	2.4	94
42	Chromophore-Protein Interactions in the Anthozoan Green Fluorescent Protein asFP499. <i>Biophysical Journal</i> , 2006, 91, 4210-4220.	0.2	40
43	Exploring Chromophore-Protein Interactions in Fluorescent Protein cmFP512 from <i>Cerianthus membranaceus</i> : X-ray Structure Analysis and Optical Spectroscopy. <i>Biochemistry</i> , 2006, 45, 12942-12953.	1.2	31
44	Large-scale purification and crystallization of the endoribonuclease XendoU: troubleshooting with His-tagged proteins. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 298-301.	0.7	19
45	Photoconvertible Fluorescent Protein EosFP: Biophysical Properties and Cell Biology Applications. <i>Photochemistry and Photobiology</i> , 2006, 82, 351.	1.3	118
46	The Allosteric Properties of Hemoglobin: Insights from Natural and Site Directed Mutants. <i>Current Protein and Peptide Science</i> , 2006, 7, 17-45.	0.7	46
47	A globin for the brain. <i>FASEB Journal</i> , 2006, 20, 2192-2197.	0.2	87
48	Extended subnanosecond structural dynamics of myoglobin revealed by Laue crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 4924-4929.	3.3	111
49	The structure of the endoribonuclease XendoU: From small nucleolar RNA processing to severe acute respiratory syndrome coronavirus replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12365-12370.	3.3	51
50	Red fluorescent protein eqFP611 and its genetically engineered dimeric variants. <i>Journal of Biomedical Optics</i> , 2005, 10, 014003.	1.4	56
51	Neuroglobin, nitric oxide, and oxygen: Functional pathways and conformational changes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8483-8488.	3.3	233
52	Molecular Dynamics Simulation of Sperm Whale Myoglobin: Effects of Mutations and Trapped CO on the Structure and Dynamics of Cavities. <i>Biophysical Journal</i> , 2005, 89, 465-474.	0.2	93
53	The structure of carbonmonoxy neuroglobin reveals a heme-sliding mechanism for control of ligand affinity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17351-17356.	3.3	182
54	Insights into DNA Replication. <i>Structure</i> , 2004, 12, 2001-2008.	1.6	52

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55	The structure of murine neuroglobin: Novel pathways for ligand migration and binding. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 56, 85-92.	1.5	170
56	Extended Molecular Dynamics Simulation of the Carbon Monoxide Migration in Sperm Whale Myoglobin. <i>Biophysical Journal</i> , 2004, 86, 3855-3862.	0.2	129
57	Dimeric variants of the red fluorescent protein eqFP611 generated by site-directed mutagenesis. , 2004, 5329, 23.		1
58	Roles for holes: are cavities in proteins mere packing defects?. <i>Italian Journal of Biochemistry</i> , 2004, 53, 46-52.	0.3	4
59	The structure of ActVA-Orf6, a novel type of monooxygenase involved in actinorhodin biosynthesis. <i>EMBO Journal</i> , 2003, 22, 205-215.	3.5	150
60	Analysis of the effect of microgravity on protein crystal quality: the case of a myoglobin triple mutant. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 982-988.	2.5	13
61	Crystallization and preliminary X-ray diffraction analysis of the red fluorescent protein eqFP611. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1253-1255.	2.5	27
62	Complex landscape of protein structural dynamics unveiled by nanosecond Laue crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8704-8709.	3.3	195
63	Controlling Ligand Binding in Myoglobin by Mutagenesis. <i>Journal of Biological Chemistry</i> , 2002, 277, 7509-7519.	1.6	101
64	The carbon monoxide derivative of human hemoglobin carrying the double mutation LeuB10 \rightarrow Tyr and HisE7 \rightarrow Gln on $\hat{1}$ and $\hat{2}$ chains probed by infrared spectroscopy. <i>Archives of Biochemistry and Biophysics</i> , 2002, 402, 59-64.	1.4	2
65	Control of Heme Reactivity by Diffusion: A Structural Basis and Functional Characterization in Hemoglobin Mutants $\hat{\epsilon}$, $\hat{\epsilon}$. <i>Biochemistry</i> , 2001, 40, 14449-14458.	1.2	12
66	Crystallization and X-ray diffraction measurements of a thermophilic archaeal recombinant amidase from <i>Sulfolobus solfataricus</i> MT4. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1036-1037.	2.5	8
67	Crystallization and preliminary X-ray diffraction studies of a monooxygenase from <i>Streptomyces coelicolor</i> A3(2) involved in the biosynthesis of the polyketide actinorhodin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 481-483.	2.5	8
68	The structures of deoxy human haemoglobin and the mutant Hb Tyr $\hat{1}$ 42His at 120 $\hat{\epsilon}$...K. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 805-811.	2.5	75
69	The role of cavities in protein dynamics: Crystal structure of a photolytic intermediate of a mutant myoglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 2058-2063.	3.3	143
70	Polarized X-ray absorption spectroscopy of the low-temperature photoproduct of carbonmonoxy-myoglobin. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 1138-1147.	1.0	27
71	Does picosecond protein dynamics have survival value?. <i>Trends in Biochemical Sciences</i> , 1999, 24, 253-255.	3.7	26
72	Structural Dynamics of Ligand Diffusion in the Protein Matrix: A Study on a New Myoglobin Mutant Y(B10) Q(E7) R(E10). <i>Biophysical Journal</i> , 1999, 76, 1259-1269.	0.2	79

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73	Modulation of ligand binding in engineered human hemoglobin distal pocket. <i>Journal of Molecular Biology</i> , 1999, 290, 515-524.	2.0	27
74	Free energy of burying hydrophobic residues in the interface between protein subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 6103-6107.	3.3	89
75	Probing the $\alpha 1 \alpha 2$ Interface of Human Hemoglobin by Mutagenesis. <i>Journal of Biological Chemistry</i> , 1996, 271, 12472-12480.	1.6	21
76	Haemoglobin Engineering: For fun and money. <i>Current Biology</i> , 1995, 5, 462-465.	1.8	5
77	Engineering <i>Ascaris</i> hemoglobin oxygen affinity in sperm whale myoglobin: role of tyrosine B10. <i>FEBS Letters</i> , 1994, 352, 63-66.	1.3	37
78	Site-directed mutagenesis in hemoglobin. <i>FEBS Letters</i> , 1993, 324, 117-122.	1.3	11
79	The kinetics of electron entry in cytochrome c oxidase. <i>Biology of Metals</i> , 1990, 3, 118-121.	1.1	2
80	Reconstitution of cytochrome c oxidase into phospholipid vesicles: Effect of detergents. <i>Bioelectrochemistry</i> , 1990, 23, 265-270.	1.0	1
81	Reconstitution of cytochrome c oxidase into phospholipid vesicles: effect of detergents. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 298, 265-270.	0.3	0
82	Electron transfer to the binuclear center in cytochrome oxidase: catalytic significance and evidence for an additional intermediate.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990, 87, 7410-7413.	3.3	45
83	ATP-Induced Spectral Perturbation in Cytochrome Oxidase.. <i>Annals of the New York Academy of Sciences</i> , 1988, 550, 118-123.	1.8	1
84	Is the Internal Electron Transfer the Rate-Limiting Step in the Catalytic Cycle of Cytochrome c Oxidase?. <i>Annals of the New York Academy of Sciences</i> , 1988, 550, 161-166.	1.8	14
85	Modulation of Cytochrome c Oxidase Activity by an Electrical Transmembrane Gradient. <i>Annals of the New York Academy of Sciences</i> , 1988, 550, 269-276.	1.8	8
86	Probing the Role of Murine Neuroglobin CDloopâ€D-Helix Unit in CO Ligand Binding and Structural Dynamics. <i>ACS Chemical Biology</i> , 0, , .	1.6	2