

Nathalie Colloc'h

List of Publications by Year in descending order

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29
papers

1,163
citations

394421

19
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

1106
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring hydrophobic sites in proteins with xenon or krypton. <i>Proteins: Structure, Function and Bioinformatics</i> , 1998, 30, 61-73.	2.6	168
2	Crystal Structure of the protein drug urate oxidase-inhibitor complex at 2.05 Å... resolution. <i>Nature Structural and Molecular Biology</i> , 1997, 4, 947-952.	8.2	150
3	Complexed and ligand-free high-resolution structures of urate oxidase (Uox) from <i>Aspergillus flavus</i> : a reassignment of the active-site binding mode. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 453-462.	2.5	82
4	Protein Crystallography under Xenon and Nitrous Oxide Pressure: Comparison with In Vivo Pharmacology Studies and Implications for the Mechanism of Inhaled Anesthetic Action. <i>Biophysical Journal</i> , 2007, 92, 217-224.	0.5	80
5	Oxygen Pressurized X-Ray Crystallography: Probing the Dioxygen Binding Site in Cofactorless Urate Oxidase and Implications for Its Catalytic Mechanism. <i>Biophysical Journal</i> , 2008, 95, 2415-2422.	0.5	65
6	Sequence and structural features of the T-fold, an original tunnelling building unit. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000, 39, 142-154.	2.6	55
7	Structure-Function Perturbation and Dissociation of Tetrameric Urate Oxidase by High Hydrostatic Pressure. <i>Biophysical Journal</i> , 2010, 98, 2365-2373.	0.5	53
8	Modification of a reactive cysteine explains differences between rasburicase and Uricozyme, a natural <i>Aspergillus flavus</i> uricase. <i>Biotechnology and Applied Biochemistry</i> , 2002, 36, 21.	3.1	48
9	Xenon is an Inhibitor of Tissue-Plasminogen Activator: Adverse and Beneficial Effects in a Rat Model of Thromboembolic Stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 718-728.	4.3	47
10	Structural analysis of urate oxidase in complex with its natural substrate inhibited by cyanide: Mechanistic implications. <i>BMC Structural Biology</i> , 2008, 8, 32.	2.3	44
11	Direct Evidence for a Peroxide Intermediate and a Reactive Enzyme-Substrate Dioxygen Configuration in a Cofactor-free Oxidase. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13710-13714.	13.8	43
12	Urate oxidase from <i>Aspergillus flavus</i> : new crystal-packing contacts in relation to the content of the active site. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 218-229.	2.5	34
13	Pressure-response analysis of anesthetic gases xenon and nitrous oxide on urate oxidase: a crystallographic study. <i>FASEB Journal</i> , 2011, 25, 2266-2275.	0.5	31
14	Structural Basis for Xenon Inhibition in a Cationic Pentameric Ligand-Gated Ion Channel. <i>PLoS ONE</i> , 2016, 11, e0149795.	2.5	31
15	Recapture of [S]-allantoin, the product of the two-step degradation of uric acid, by urate oxidase. <i>FEBS Letters</i> , 2006, 580, 2087-2091.	2.8	29
16	Near-atomic resolution structures of urate oxidase complexed with its substrate and analogues: the protonation state of the ligand. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 714-724.	2.5	29
17	Functional relevance of the internal hydrophobic cavity of urate oxidase. <i>FEBS Letters</i> , 2014, 588, 1715-1719.	2.8	26
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.	2.5	25

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19	Gas-sensitive biological crystals processed in pressurized oxygen and krypton atmospheres: deciphering gas channels in proteins using a novel 'soak-and-freeze' methodology. <i>Journal of Applied Crystallography</i> , 2016, 49, 1478-1487.	4.5	25
20	High-Pressure Macromolecular Crystallography (HPMX): Status and prospects. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 384-390.	2.3	19
21	Equilibria between conformational states of the Ras oncogene protein revealed by high pressure crystallography. <i>Chemical Science</i> , 2022, 13, 2001-2010.	7.4	17
22	X-ray, ESR, and quantum mechanics studies unravel a spin well in the cofactorless urate oxidase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 1964-1976.	2.6	16
23	Mapping Hydrophobic Tunnels and Cavities in Neuroglobin with Noble Gas under Pressure. <i>Biophysical Journal</i> , 2017, 113, 2199-2206.	0.5	14
24	Ligand pathways in neuroglobin revealed by low-temperature photodissociation and docking experiments. <i>IUCr</i> , 2019, 6, 832-842.	2.2	8
25	Determinants of neuroglobin plasticity highlighted by joint coarse-grained simulations and high pressure crystallography. <i>Scientific Reports</i> , 2017, 7, 1858.	3.3	7
26	Comparative study of the effects of high hydrostatic pressure and high argon pressure on urate oxidase ligand stabilization. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 162-173.	2.3	6
27	Azide inhibition of urate oxidase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 896-902.	0.8	4
28	Behavior of B- and Z-DNA Crystals under High Hydrostatic Pressure. <i>Crystals</i> , 2022, 12, 871.	2.2	2
29	Method for the Identification of Potentially Bioactive Argon Binding Sites in Protein Families. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 1318-1327.	5.4	0