

# Manon Couture

## List of Publications by Year in descending order

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39  
papers

1,928  
citations

304743

22  
h-index

315739

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1281  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel two-over-two alpha-helical sandwich fold is characteristic of the truncated hemoglobin family. <i>EMBO Journal</i> , 2000, 19, 2424-2434.	7.8	217
2	A cooperative oxygen-binding hemoglobin from <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 11223-11228.	7.1	201
3	Simultaneous observation of the O-O and Fe-O2 stretching modes in oxyhemoglobins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 479-484.	7.1	141
4	The Heme Environment of Mouse Neuroglobin. <i>Journal of Biological Chemistry</i> , 2001, 276, 36377-36382.	3.4	117
5	<i>Chlamydomonas</i> Chloroplast Ferrous Hemoglobin. <i>Journal of Biological Chemistry</i> , 1999, 274, 6898-6910.	3.4	106
6	A Cooperative Oxygen Binding Hemoglobin from <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 1679-1684.	3.4	106
7	Ligand-protein interactions in nitric oxide synthase. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 306-323.	3.5	98
8	Structural investigations of the hemoglobin of the cyanobacterium <i>Synechocystis</i> PCC6803 reveal a unique distal heme pocket. <i>FEBS Journal</i> , 2000, 267, 4770-4780.	0.2	96
9	Crystal Structure of the Dioxygen-bound Heme Oxygenase from <i>Corynebacterium diphtheriae</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 21055-21061.	3.4	88
10	Nuclear genes encoding chloroplast hemoglobins in the unicellular green alga <i>Chlamydomonas eugametos</i> . <i>Molecular Genetics and Genomics</i> , 1994, 243, 185-197.	2.4	80
11	Identification of the Ligands to the Ferric Heme of <i>Chlamydomonas</i> Chloroplast Hemoglobin: Evidence for Ligation of Tyrosine-63 (B10) to the Heme. <i>Biochemistry</i> , 1999, 38, 15360-15368.	2.5	77
12	The Ferrous Dioxygen Complex of the Oxygenase Domain of Neuronal Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2000, 275, 3201-3205.	3.4	53
13	Regulation of the Properties of the Heme-NO Complexes in Nitric-oxide Synthase by Hydrogen Bonding to the Proximal Cysteine. <i>Journal of Biological Chemistry</i> , 2001, 276, 38280-38288.	3.4	49
14	Ligand Interactions in the Distal Heme Pocket of <i>Mycobacterium tuberculosis</i> Truncated Hemoglobin N: Roles of TyrB10 and GlnE11 Residues. <i>Biochemistry</i> , 2006, 45, 8770-8781.	2.5	45
15	Reaction of <i>Mycobacterium tuberculosis</i> Cytochrome P450 Enzymes with Nitric Oxide. <i>Biochemistry</i> , 2009, 48, 863-872.	2.5	42
16	Purification and Spectroscopic Characterization of a Recombinant Chloroplastic Hemoglobin from the Green Unicellular Alga <i>Chlamydomonas eugametos</i> . <i>FEBS Journal</i> , 1996, 242, 779-787.	0.2	40
17	Stability of the Heme Environment of the Nitric Oxide Synthase from <i>Staphylococcus aureus</i> in the Absence of Pterin Cofactor. <i>Biophysical Journal</i> , 2004, 87, 1939-1950.	0.5	39
18	The Roles of Tyr(CD1) and Trp(G8) in <i>Mycobacterium tuberculosis</i> Truncated Hemoglobin O in Ligand Binding and on the Heme Distal Site Architecture,. <i>Biochemistry</i> , 2007, 46, 11440-11450.	2.5	38

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19	Synthesis of $\beta$ -ketophosphonate analogs of glutamyl and glutamyl adenylate, and selective inhibition of the corresponding bacterial aminoacyl-tRNA synthetases. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 295-304.	3.0	31
20	A Weak Fe-O Bond in the Oxygenated Complex of the Nitric-oxide Synthase of <i>Staphylococcus aureus</i> *. <i>Journal of Biological Chemistry</i> , 2006, 281, 9953-9962.	3.4	30
21	Substrate-specific Interactions with the Heme-bound Oxygen Molecule of Nitric-oxide Synthase*. <i>Journal of Biological Chemistry</i> , 2007, 282, 20877-20886.	3.4	30
22	The Conserved Trp-Cys Hydrogen Bond Dampens the "Push Effect" of the Heme Cysteinate Proximal Ligand during the First Catalytic Cycle of Nitric Oxide Synthase. <i>Biochemistry</i> , 2011, 50, 10069-10081.	2.5	26
23	Distal Interactions in the Cyanide Complex of Ferric <i>Chlamydomonas</i> Hemoglobin. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10750-10756.	2.6	21
24	Interactions between substrates and the haem-bound nitric oxide of ferric and ferrous bacterial nitric oxide synthases. <i>Biochemical Journal</i> , 2007, 401, 235-245.	3.7	19
25	Structure and heme binding properties of <i>Escherichia coli</i> O157:H7 ChuX. <i>Protein Science</i> , 2009, 18, 825-838.	7.6	18
26	Effects of Hexane on Protein Profile, Solubility and Foaming Properties of Defatted Proteins Extracted from <i>Tenebrio molitor</i> Larvae. <i>Molecules</i> , 2021, 26, 351.	3.8	18
27	Trp180 of endothelial NOS and Trp56 of bacterial saNOS modulate sigma bonding of the axial cysteine to the heme. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1102-1112.	3.5	15
28	Flavoenzyme CrmK-mediated substrate recycling in caerulomycin biosynthesis. <i>Chemical Science</i> , 2016, 7, 4867-4874.	7.4	14
29	An alternative reaction for heme degradation catalyzed by the <i>Escherichia coli</i> O157:H7 ChuS protein: Release of hematic acid, tripyrrole and Fe(III). <i>Journal of Inorganic Biochemistry</i> , 2016, 154, 103-113.	3.5	14
30	Axial Ligation States of Five-Coordinate Heme Oxygenase Proximal Histidine Mutants, as Revealed by EPR and Resonance Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2000, 122, 12612-12613.	13.7	12
31	Cytochrome b5 from <i>Giardia lamblia</i> . <i>Metallomics</i> , 2012, 4, 1255.	2.4	9
32	Structural analyses of the Group A flavin-dependent monooxygenase PieE reveal a sliding FAD cofactor conformation bridging OUT and IN conformations. <i>Journal of Biological Chemistry</i> , 2020, 295, 4709-4722.	3.4	9
33	Oxygen activation in NO synthases: evidence for a direct role of the substrate. <i>FEBS Open Bio</i> , 2016, 6, 386-397.	2.3	8
34	Synthesis of HPr(Ser-P)(His <sup>1/4</sup> P) by Enzyme I of the Phosphoenolpyruvate: Sugar Phosphotransferase System of <i>Streptococcus salivarius</i> . <i>Biochemistry</i> , 2006, 45, 6692-6702.	2.5	5
35	Reaction Intermediates and Molecular Mechanism of Peroxynitrite Activation by NO Synthases. <i>Biophysical Journal</i> , 2016, 111, 2099-2109.	0.5	5
36	Peroxidase Activity and Involvement in the Oxidative Stress Response of <i>Roseobacter denitrificans</i> Truncated Hemoglobin. <i>PLoS ONE</i> , 2015, 10, e0117768.	2.5	4

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37	Resonance Raman studies on the flavohemoglobin of the protist <i>Giardia intestinalis</i> : evidence of a type I/II-peroxidase-like heme environment and roles of the active site distal residues. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 1099-1108.	2.6	4
38	Kinetic Studies of HPr, HPr(H15D), HPr(H15E), and HPr(His <sup>14</sup> P) Phosphorylation by the <i>Streptococcus salivarius</i> HPr(Ser) Kinase/Phosphorylase. <i>Biochemistry</i> , 2009, 48, 10765-10774.	2.5	3
39	Peroxidation and redox reactions catalyzed by truncated hemoglobins. <i>FASEB Journal</i> , 2015, 29, 573.40.	0.5	0