Angela Wilks

List of Publications by Year
in descending order

77	4,496	81839 39	106281 65
papers	citations	h-index	g-index

148	148	148	2734
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal structure of human heme oxygenase-1. Nature Structural Biology, 1999, 6, 860-867.	9.7	282
2	Homologues of Neisserial Heme Oxygenase in Gram-Negative Bacteria: Degradation of Heme by the Product of the pigA Gene of Pseudomonas aeruginosa. Journal of Bacteriology, 2001, 183, 6394-6403.	1.0	221
3	Expression and Characterization of a Heme Oxygenase (Hmu O) fromCorynebacterium diphtheriae. Journal of Biological Chemistry, 1998, 273, 837-841.	1.6	192
4	Degradation of Heme in Gram-Negative Bacteria: the Product of the hemO Gene of Neisseriae Is a Heme Oxygenase. Journal of Bacteriology, 2000, 182, 6783-6790.	1.0	184
5	Heme Oxygenase: Evolution, Structure, and Mechanism. Antioxidants and Redox Signaling, 2002, 4, 603-614.	2.5	167
6	Adaptation of Iron Homeostasis Pathways by a Pseudomonas aeruginosa Pyoverdine Mutant in the Cystic Fibrosis Lung. Journal of Bacteriology, 2014, 196, 2265-2276.	1.0	145
7	Crystal Structure of Heme Oxygenase from the Gram-Negative PathogenNeisseria meningitidisand a Comparison with Mammalian Heme Oxygenase-1â€. Biochemistry, 2001, 40, 11552-11558.	1.2	136
8	Structural Basis for Novel Î´-Regioselective Heme Oxygenation in the Opportunistic PathogenPseudomonas aeruginosaâ€,â€¡. Biochemistry, 2004, 43, 5239-5245.	1.2	129
9	Dual-seq transcriptomics reveals the battle for iron during Pseudomonas aeruginosa acute murine pneumonia. Scientific Reports, 2016, 6, 39172.	1.6	126
10	Heme and virulence: how bacterial pathogens regulate, transport and utilize heme. Natural Product Reports, 2007, 24, 511.	5.2	124
11	Identification of Histidine 25 as the Heme Ligand in Human Liver Heme Oxygenase. Biochemistry, 1994, 33, 13734-13740.	1.2	119
12	Expression and characterization of truncated human heme oxygenase (hHO-1) and a fusion protein of hHO-1 with human cytochrome P450 reductase. Biochemistry, 1995, 34, 4421-4427.	1.2	118
13	Replacement of the Proximal Histidine Iron Ligand by a Cysteine or Tyrosine Converts Heme Oxygenase to an Oxidaseâ€. Biochemistry, 1999, 38, 3733-3743.	1.2	110
14	Resonance Raman and EPR spectroscopic studies on heme-heme oxygenase complexes. Biochemistry, 1993, 32, 14151-14157.	1.2	107
15	Extracellular Heme Uptake and the Challenge of Bacterial Cell Membranes. Annual Review of Biochemistry, 2017, 86, 799-823.	5.0	99
16	Characterization of the Periplasmic Heme-Binding Protein ShuT from the Heme Uptake System of Shigella dysenteriae. Biochemistry, 2005, 44, 13179-13191.	1.2	98
17	Oxidation of Heme to Î²- and Î´-Biliverdin byPseudomonas aeruginosaHeme Oxygenase as a Consequence of an Unusual Seating of the Heme. Journal of the American Chemical Society, 2002, 124, 14879-14892.	6.6	97
18	Heme oxygenation and the widening paradigm of heme degradation. Archives of Biochemistry and Biophysics, 2014, 544, 87-95.	1.4	89

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19	Heme oxygenase structure and mechanism. Advances in Inorganic Chemistry, 2000, 51, 359-407.	0.4	88
20	HutZ Is Required for Efficient Heme Utilization in Vibrio cholerae. Journal of Bacteriology, 2004, 186, 4142-4151.	1.0	79
21	The <i>prrF</i> -Encoded Small Regulatory RNAs Are Required for Iron Homeostasis and Virulence of Pseudomonas aeruginosa. Infection and Immunity, 2015, 83, 863-875.	1.0	79
22	The Cytoplasmic Heme-binding Protein (PhuS) from the Heme Uptake System of Pseudomonas aeruginosa Is an Intracellular Heme-trafficking Protein to the Î´-Regioselective Heme Oxygenase. Journal of Biological Chemistry, 2006, 281, 13652-13662.	1.6	76
23	Holo- and Apo-bound Structures of Bacterial Periplasmic Heme-binding Proteins. Journal of Biological Chemistry, 2007, 282, 35796-35802.	1.6	69
24	Heme Utilization by Pathogenic Bacteria: Not All Pathways Lead to Biliverdin. Accounts of Chemical Research, 2014, 47, 2291-2298.	7.6	67
25	Heme Oxygenase His25Ala Mutant: Replacement of the Proximal Histidine Iron Ligand by Exogenous Bases Restores Catalytic Activity. Journal of the American Chemical Society, 1995, 117, 2925-2926.	6.6	64
26	Crystal Structures of the NO- and CO-bound Heme Oxygenase from Neisseriae meningitidis. Journal of Biological Chemistry, 2003, 278, 34654-34659.	1.6	64
27	Differential Contributions of the Outer Membrane Receptors PhuR and HasR to Heme Acquisition in Pseudomonas aeruginosa. Journal of Biological Chemistry, 2015, 290, 7756-7766.	1.6	64
28	Proton NMR Investigation of Substrate-Bound Heme Oxygenase: Evidence for Electronic and Steric Contributions to Stereoselective Heme Cleavage. Biochemistry, 1994, 33, 6631-6641.	1.2	63
29	The Hydroxide Complex of Pseudomonas aeruginosa Heme Oxygenase as a Model of the Low-Spin Iron(III) Hydroperoxide Intermediate in Heme Catabolism:â€‰ 13C NMR Spectroscopic Studies Suggest the Active Participation of the Heme in Macrocycle Hydroxylation. Journal of the American Chemical Society, 2003, 125, 11842-11852.	6.6	58
30	Proteomic Analysis of the Pseudomonas aeruginosa Iron Starvation Response Reveals PrrF Small Regulatory RNA-Dependent Iron Regulation of Twitching Motility, Amino Acid Metabolism, and Zinc Homeostasis Proteins. Journal of Bacteriology, 2019, 201, .	1.0	54
31	Azide-Inhibited Bacterial Heme Oxygenases Exhibit an S = 3/2 (dxz,dyz)3(dxy)1(dz2)1 Spin State:â€‰ Mechanistic Implications for Heme Oxidation. Journal of the American Chemical Society, 2005, 127, 9794-9807.	6.6	52
32	The P. aeruginosa Heme Binding Protein PhuS Is a Heme Oxygenase Titratable Regulator of Heme Uptake. ACS Chemical Biology, 2013, 8, 1794-1802.	1.6	51
33	The Mechanism of Heme Transfer from the Cytoplasmic Heme Binding Protein PhuS to the Î´-Regioselective Heme Oxygenase ofPseudomonas aeruginosaâ€. Biochemistry, 2006, 45, 11642-11649.	1.2	50
34	Crystallization of recombinant human heme oxygenaseâ€1. Protein Science, 1998, 7, 1836-1838.	3.1	48
35	Solution 1H NMR Investigation of the Molecular and Electronic Structure of the Active Site of Substrate-Bound Human Heme Oxygenase:â€‰ the Nature of the Distal Hydrogen Bond Donor to Bound Ligands. Journal of the American Chemical Society, 1998, 120, 8875-8884.	6.6	48
36	The Role of the Cytoplasmic Heme-binding Protein (PhuS) of Pseudomonas aeruginosa in Intracellular Heme Trafficking and Iron Homeostasis. Journal of Biological Chemistry, 2009, 284, 56-66.	1.6	47

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37	Induced fit on heme binding to the <i>Pseudomonas aeruginosa</i> cytoplasmic protein (PhuS) drives interaction with heme oxygenase (HemO). Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5639-5644.	3.3	46
38	Characterization of the Outer Membrane Receptor ShuA from the Heme Uptake System of Shigella dysenteriae. Journal of Biological Chemistry, 2007, 282, 15126-15136.	1.6	45
39	PAMDB: a comprehensive Pseudomonas aeruginosa metabolome database. Nucleic Acids Research, 2018, 46, D575-D580.	6.5	45
40	Metabolic Flux of Extracellular Heme Uptake in Pseudomonas aeruginosa Is Driven by the Iron-regulated Heme Oxygenase (HemO). Journal of Biological Chemistry, 2012, 287, 18342-18350.	1.6	42
41	A rapid seamless method for gene knockout in Pseudomonas aeruginosa. BMC Microbiology, 2017, 17, 199.	1.3	39
42	Inhibition of the Bacterial Heme Oxygenases from <i>Pseudomonas aeruginosa</i> and <i>Neisseria </i><i>meningitidis</i>:â€‰ Novel Antimicrobial Targets. Journal of Medicinal Chemistry, 2007, 50, 3804-3813.	2.9	38
43	Identification of the Proximal Ligand His-20 in Heme Oxygenase (Hmu O) from Corynebacterium diphtheriae. Journal of Biological Chemistry, 2000, 275, 11686-11692.	1.6	37
44	The ShuS Protein of Shigella dysenteriae Is a Heme-Sequestering Protein That Also Binds DNA. Archives of Biochemistry and Biophysics, 2001, 387, 137-142.	1.4	36
45	Iminoguanidines as Allosteric Inhibitors of the Iron-Regulated Heme Oxygenase (HemO) of <i>Pseudomonas aeruginosa</i>. Journal of Medicinal Chemistry, 2016, 59, 6929-6942.	2.9	33
46	Metabolite-driven Regulation of Heme Uptake by the Biliverdin IXÎ²/Î´-Selective Heme Oxygenase (HemO) of Pseudomonas aeruginosa. Journal of Biological Chemistry, 2016, 291, 20503-20515.	1.6	32
47	Identification of Two Heme-Binding Sites in the Cytoplasmic Heme-Trafficking Protein PhuS from <i>Pseudomonas aeruginosa</i> and Their Relevance to Function. Biochemistry, 2007, 46, 14391-14402.	1.2	30
48	Functional Characterization of the <i>Shigella dysenteriae</i> Heme ABC Transporter. Biochemistry, 2008, 47, 7977-7979.	1.2	30
49	Gallium(III)â€“Salophen as a Dual Inhibitor of <i>Pseudomonas aeruginosa</i> Heme Sensing and Iron Acquisition. ACS Infectious Diseases, 2020, 6, 2073-2085.	1.8	29
50	Small Molecule Antivirulents Targeting the Iron-Regulated Heme Oxygenase (HemO) of <i>P. aeruginosa</i>. Journal of Medicinal Chemistry, 2013, 56, 2097-2109.	2.9	27
51	The Hydrogen-Bonding Network in Heme Oxygenase Also Functions as a Modulator of Enzyme Dynamics:â€‰ Chaotic Motions upon Disrupting the H-Bond Network in Heme Oxygenase from <i>Pseudomonas </i><i>aeruginosa</i>. Journal of the American Chemical Society, 2007, 129, 11730-11742.	6.6	26
52	Spectroscopic Determination of Distinct Heme Ligands in Outer-Membrane Receptors PhuR and HasR of <i>Pseudomonas aeruginosa</i>. Biochemistry, 2015, 54, 2601-2612.	1.2	26
53	Heme uptake and utilization by hypervirulent Acinetobacter baumannii LAC-4 is dependent on a canonical heme oxygenase (abHemO). Archives of Biochemistry and Biophysics, 2019, 672, 108066.	1.4	25
54	Post-transcriptional regulation of the Pseudomonas aeruginosa heme assimilation system (Has) fine-tunes extracellular heme sensing. Journal of Biological Chemistry, 2019, 294, 2771-5555.	1.6	24

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55	Extracellular Heme Uptake and the Challenges of Bacterial Cell Membranes. Current Topics in Membranes, 2012, 69, 359-392.	0.5	22
56	Backbone NMR Assignments and H/D Exchange Studies on the Ferric Azide- and Cyanide-Inhibited Forms of Pseudomonas aeruginosa Heme Oxygenase,. Biochemistry, 2006, 45, 4578-4592.	1.2	21
57	The Ferrous Verdohemeâˆ'Heme Oxygenase Complex is Six-Coordinate and Low-Spin. Journal of the American Chemical Society, 2005, 127, 17582-17583.	6.6	20
58	Heme Oxidation in a Chimeric Protein of the Î±-SelectiveNeisseriae meningitidisHeme Oxygenase with the Distal Helix of the Î´-SelectivePseudomonas aeruginosaâ€. Biochemistry, 2005, 44, 13713-13723.	1.2	19
59	Ligand-induced allostery in the interaction of the <i>Pseudomonas aeruginosa</i> heme binding protein with heme oxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3421-3426.	3.3	18
60	Heme Inhibits the DNA Binding Properties of the Cytoplasmic Heme Binding Protein ofShigella dysenteriae(ShuS)â€. Biochemistry, 2007, 46, 2994-3000.	1.2	14
61	Crystal structure of the Pseudomonas aeruginosa cytoplasmic heme binding protein, Apo-PhuS. Journal of Inorganic Biochemistry, 2013, 128, 131-136.	1.5	14
62	Contributions of the heme coordinating ligands of the Pseudomonas aeruginosa outer membrane receptor HasR to extracellular heme sensing and transport. Journal of Biological Chemistry, 2020, 295, 10456-10467.	1.6	14
63	The heme-binding protein PhuS transcriptionally regulates the Pseudomonas aeruginosa tandem sRNA prrF1,F2 locus. Journal of Biological Chemistry, 2021, 296, 100275.	1.6	13
64	Structure-based design and biological evaluation of inhibitors of the pseudomonas aeruginosa heme oxygenase (pa-HemO). Bioorganic and Medicinal Chemistry Letters, 2018, 28, 1024-1029.	1.0	9
65	Metallotherapeutics development in the age of iron-clad bacteria. Metallomics, 2020, 12, 1863-1877.	1.0	9
66	72 Mechanisms of Heme Uptake and Utilization in Bacterial Pathogens. Handbook of Porphyrin Science, 2011, , 357-398.	0.3	7
67	Modeling the native ensemble of PhuS using enhanced sampling MD and HDX-ensemble reweighting. Biophysical Journal, 2021, 120, 5141-5157.	0.2	7
68	The Asp99â€"Arg188 salt bridge of the Pseudomonas aeruginosa HemO is critical in allowing conformational flexibility during catalysis. Journal of Biological Inorganic Chemistry, 2018, 23, 1057-1070.	1.1	6
69	Extracellular haem utilization by the opportunistic pathogen Pseudomonas aeruginosa and its role in virulence and pathogenesis. Advances in Microbial Physiology, 2021, 79, 89-132.	1.0	6
70	Repurposing Acitretin as an Antipseudomonal Agent Targeting the <i>Pseudomonas aeruginosa</i> Iron-Regulated Heme Oxygenase. Biochemistry, 2021, 60, 689-698.	1.2	5
71	Axial Heme Coordination by the Tyr-His Motif in the Extracellular Hemophore HasAp Is Critical for the Release of Heme to the HasR Receptor of Pseudomonas aeruginosa. Biochemistry, 2021, 60, 2549-2559.	1.2	5
72	Recombinant Production of Biliverdin IXÎ² and Î´ Isomers in the T7 Promoter Compatible Escherichia coli Nissle. Frontiers in Microbiology, 2021, 12, 787609.	1.5	4

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73	Catalytic turnover dependent modification of the Pseudomonas aeruginosa heme oxygenase (pa-HO) by 5,6-O-isopropyledine-2-O-allyl-ascorbic acid. Journal of Inorganic Biochemistry, 2008, 102, 251-259.	1.5	3
74	Bacterial Heme Oxygenases. , 2014, , 86-95.		2
75	Understanding RNA Binding by the Nonclassical Zinc Finger Protein CPSF30, a Key Factor in Polyadenylation during Pre-mRNA Processing. Biochemistry, 2021, 60, 780-790.	1.2	2
76	NMR assignments of cd-HO, a 24ÂkDa heme oxygenase from Corynebacterium diphtheria. Biomolecular NMR Assignments, 2007, 1, 55-56.	0.4	0
77	Extracellular Heme Uptake and Metabolism in Bacterial Pathogenesis. Handbook of Porphyrin Science, 2013, , 267-315.	0.3	0