Xiangshi Tan

List of Publications by Citations

46 papers	609 citations	14 h-index	23 g-index
53 ext. papers	771 ext. citations	5 avg, IF	3.75 L-index

#	Paper	IF	Citations
46	Antitumor Activity of cGAMP via Stimulation of cGAS-cGAMP-STING-IRF3 Mediated Innate Immune Response. *Scientific Reports*, **2016**, 6, 19049	4.9	119
45	Tyrosine-67 in cytochrome c is a possible apoptotic trigger controlled by hydrogen bonds via a conformational transition. *Chemical Communications*, **2009**, 4512-4	5.8	51
44	A novel tyrosine-heme C□D covalent linkage in F43Y myoglobin: a new post-translational modification of heme proteins. *ChemBioChem*, **2015**, 16, 47-50	3.8	29
43	A Rationally Designed Myoglobin Exhibits a Catalytic Dehalogenation Efficiency More than 1000-Fold That of a Native Dehaloperoxidase. *ACS Catalysis*, **2018**, 8, 9619-9624	13.1	29
42	Rational design of artificial dye-decolorizing peroxidases using myoglobin by engineering Tyr/Trp in the heme center. *Dalton Transactions*, **2017**, 46, 11230-11238	4.3	24
41	Regulating the coordination state of a heme protein by a designed distal hydrogen-bonding network. *ChemistryOpen*, **2015**, 4, 97-101	2.3	22
40	Structural basis for cytochrome c Y67H mutant to function as a peroxidase. *PLoS ONE*, **2014**, 9, e107305	3.7	19
39	An intramolecular disulfide bond designed in myoglobin fine-tunes both protein structure and peroxidase activity. *Archives of Biochemistry and Biophysics*, **2016**, 600, 47-55	4.1	19
38	How a novel tyrosine-heme cross-link fine-tunes the structure and functions of heme proteins: a direct comparitive study of L29H/F43Y myoglobin. *Dalton Transactions*, **2015**, 44, 18815-22	4.3	18
37	The structural basis of iron sensing by the human F-box protein FBXL5. *ChemBioChem*, **2012**, 13, 788-91	3.8	18
36	Regulating the nitrite reductase activity of myoglobin by redesigning the heme active center. *Nitric Oxide - Biology and Chemistry*, **2016**, 57, 21-29	5	16
35	Regulation of both the structure and function by a de novo designed disulfide bond: a case study of heme proteins in myoglobin. *Chemical Communications*, **2018**, 54, 4356-4359	5.8	15
34	Structural and nitrite reductase activity comparisons of myoglobins with one to three distal histidines. *RSC Advances*, **2013**, 3, 9337	3.7	15
33	Convergent evolution of the Cys decarboxylases involved in aminovinyl-cysteine (AviCys) biosynthesis. *FEBS Letters*, **2019**, 593, 573-580	3.8	14
32	Distinct mechanisms for DNA cleavage by myoglobin with a designed heme active center. *Journal of Inorganic Biochemistry*, **2016**, 156, 113-21	4.2	13
31	Efficacy and mechanism of cGAMP to suppress Alzheimer's disease by elevating TREM2. *Brain, Behavior, and Immunity*, **2019**, 81, 495-508	16.6	13
30	Probing the Molecular Mechanism of Human Soluble Guanylate Cyclase Activation by NO in vitro and in vivo. *Scientific Reports*, **2017**, 7, 43112	4.9	13

29	Metalloproteins/metalloenzymes for the synthesis of acetyl-CoA in the Wood-Ljungdahl pathway. *Science in China Series B: Chemistry*, **2009**, 52, 2071-2082		13
28	A Catalytic Binding Site Together with a Distal Tyr in Myoglobin Affords Catalytic Efficiencies Similar to Natural Peroxidases. *ACS Catalysis*, **2020**, 10, 891-896	13.1	13
27	Heme-containing enzymes and inhibitors for tryptophan metabolism. *Metallomics*, **2017**, 9, 1230-1240	4.5	12
26	Unique Tyr-heme double cross-links in F43Y/T67R myoglobin: an artificial enzyme with a peroxidase activity comparable to that of native peroxidases. *Chemical Communications*, **2019**, 55, 6610-6613	5.8	11
25	Probing the molecular mechanism of cerium oxide nanoparticles in protecting against the neuronal cytotoxicity of A□1-42 with copper ions. *Metallomics*, **2016**, 8, 644-7	4.5	11
24	The Efficacy and Pharmacological Mechanism of ZnMT3 to Protect against Alzheimer\'s Disease. *Scientific Reports*, **2017**, 7, 13763	4.9	11
23	Distinct mechanisms for the pro-apoptotic conformational transition and alkaline transition in cytochrome c. *Chemical Communications*, **2010**, 46, 3541-3	5.8	11
22	Beta amyloid-induced upregulation of death receptor 6 accelerates the toxic effect of N-terminal fragment of amyloid precursor protein. *Neurobiology of Aging*, **2015**, 36, 157-68	5.6	10
21	The molecular mechanism of heme loss from oxidized soluble guanylate cyclase induced by conformational change. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2016**, 1864, 488-500	4	8
20	Rational Design of Dual Active Sites in a Single Protein Scaffold: A Case Study of Heme Protein in Myoglobin. *ChemistryOpen*, **2016**, 5, 192-196	2.3	8
19	Efficient expression and purification of methyltransferase in acetyl-coenzyme a synthesis pathway of the human pathogen Clostridium difficile. *Protein Expression and Purification*, **2011**, 78, 86-93	2	7
18	Formation of Cys-heme cross-link in K42C myoglobin under reductive conditions with molecular oxygen. *Journal of Inorganic Biochemistry*, **2018**, 182, 141-149	4.2	5
17	Structural and functional investigation into acetyl-coenzyme A synthase and methyltransferase from human pathogen Clostridium difficile. *Metallomics*, **2013**, 5, 551-8	4.5	5
16	Efficient preparation and metal specificity of the regulatory protein TroR from the human pathogen Treponema pallidum. *Metallomics*, **2013**, 5, 1448-57	4.5	5
15	Kinetic, Thermodynamic, and Crystallographic Studies of 2-Triazolylthioacetamides as Verona Integron-Encoded Metallo-□Lactamase 2 (VIM-2) Inhibitor. *Biomolecules*, **2020**, 10,	5.9	5
14	Novel Conformational Transitions of Human Cytochrome P450 2C8 during Thermal and Acid-induced Unfolding. *Chinese Journal of Chemistry*, **2010**, 28, 1491-1502	4.9	4
13	Distinct roles of a tyrosine-associated hydrogen-bond network in fine-tuning the structure and function of heme proteins: two cases designed for myoglobin. *Molecular BioSystems*, **2016**, 12, 3139-45		4
12	Design and Engineering of an Efficient Peroxidase Using Myoglobin for Dye Decolorization and Lignin Bioconversion.. *International Journal of Molecular Sciences*, **2021**, 23,	6.3	4

11	Structural and functional insights into corrinoid iron-sulfur protein from human pathogen Clostridium difficile. *Journal of Inorganic Biochemistry*, **2017**, 170, 26-33	4.2	3
10	Functional conversion of nickel-containing metalloproteins via molecular design: from a truncated acetyl-coenzyme A synthase to a nickel superoxide dismutase. *Chemical Communications*, **2013**, 49, 1452-4	5.8	3
9	Phenoxazinone Synthase-like Activity of Rationally Designed Heme Enzymes Based on Myoglobin. *Biochemistry*, **2021**,	3.2	3
8	His-Rich Domain of Selenoprotein P Ameliorates Neuropathology and Cognitive Deficits by Regulating TrkB Pathway and Zinc Homeostasis in an Alzheimer Model of Mice. *ACS Chemical Neuroscience*, **2020**, 11, 4098-4110	5.7	2
7	Redox sensing molecular mechanism of an iron metabolism regulatory protein FBXL5. *Archives of Biochemistry and Biophysics*, **2017**, 616, 30-39	4.1	1
6	Structural and functional insights into CYP2C8.3: A genetic polymorph of cytochrome P450 2C8. *Science China Chemistry*, **2010**, 53, 2200-2207	7.9	1
5	Encapsulation of STING Agonist cGAMP with Folic Acid-Conjugated Liposomes Significantly Enhances Antitumor Pharmacodynamic Effect. *Cancer Biotherapy and Radiopharmaceuticals*, **2021**,	3.9	1
4	Improving the cell-membrane-penetrating activity of globins by introducing positive charges on protein surface: A case study of sperm whale myoglobin.. *Biochemical and Biophysical Research Communications*, **2022**, 598, 26-31	3.4	0
3	Insights into the interactions between corrinoid iron-sulfur protein and methyl transferase from human pathogen Clostridium difficile. *Chemical Research in Chinese Universities*, **2017**, 33, 731-735	2.2	
2	Soluble guanylate cyclase in NO signaling transduction. *Reviews in Inorganic Chemistry*, **2013**, 33, 193-205	2.4	
1	A novel insight into the molecular mechanism of human soluble guanylyl cyclase focused on catalytic domain in living cells.. *Biochemical and Biophysical Research Communications*, **2022**, 604, 51-56	3.4	