

# Xiangshi Tan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Improving the cell-membrane-penetrating activity of globins by introducing positive charges on protein surface: A case study of sperm whale myoglobin.. <i>Biochemical and Biophysical Research Communications</i> , <b>2022</b> , 598, 26-31	3.4	0
45	A novel insight into the molecular mechanism of human soluble guanylyl cyclase focused on catalytic domain in living cells.. <i>Biochemical and Biophysical Research Communications</i> , <b>2022</b> , 604, 51-56	3.4	
44	Phenoxazinone Synthase-like Activity of Rationally Designed Heme Enzymes Based on Myoglobin. <i>Biochemistry</i> , <b>2021</b> ,	3.2	3
43	Encapsulation of STING Agonist cGAMP with Folic Acid-Conjugated Liposomes Significantly Enhances Antitumor Pharmacodynamic Effect. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , <b>2021</b> ,	3.9	1
42	Design and Engineering of an Efficient Peroxidase Using Myoglobin for Dye Decolorization and Lignin Bioconversion.. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 23,	6.3	4
41	Kinetic, Thermodynamic, and Crystallographic Studies of 2-Triazolylthioacetamides as Verona Integron-Encoded Metallo- $\beta$ -Lactamase 2 (VIM-2) Inhibitor. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	5
40	A Catalytic Binding Site Together with a Distal Tyr in Myoglobin Affords Catalytic Efficiencies Similar to Natural Peroxidases. <i>ACS Catalysis</i> , <b>2020</b> , 10, 891-896	13.1	13
39	His-Rich Domain of Selenoprotein P Ameliorates Neuropathology and Cognitive Deficits by Regulating TrkB Pathway and Zinc Homeostasis in an Alzheimer Model of Mice. <i>ACS Chemical Neuroscience</i> , <b>2020</b> , 11, 4098-4110	5.7	2
38	Unique Tyr-heme double cross-links in F43Y/T67R myoglobin: an artificial enzyme with a peroxidase activity comparable to that of native peroxidases. <i>Chemical Communications</i> , <b>2019</b> , 55, 6610-6613	5.8	11
37	Convergent evolution of the Cys decarboxylases involved in aminovinyl-cysteine (AviCys) biosynthesis. <i>FEBS Letters</i> , <b>2019</b> , 593, 573-580	3.8	14
36	Efficacy and mechanism of cGAMP to suppress Alzheimer's disease by elevating TREM2. <i>Brain, Behavior, and Immunity</i> , <b>2019</b> , 81, 495-508	16.6	13
35	Formation of Cys-heme cross-link in K42C myoglobin under reductive conditions with molecular oxygen. <i>Journal of Inorganic Biochemistry</i> , <b>2018</b> , 182, 141-149	4.2	5
34	Regulation of both the structure and function by a de novo designed disulfide bond: a case study of heme proteins in myoglobin. <i>Chemical Communications</i> , <b>2018</b> , 54, 4356-4359	5.8	15
33	A Rationally Designed Myoglobin Exhibits a Catalytic Dehalogenation Efficiency More than 1000-Fold That of a Native Dehaloperoxidase. <i>ACS Catalysis</i> , <b>2018</b> , 8, 9619-9624	13.1	29
32	Redox sensing molecular mechanism of an iron metabolism regulatory protein FBXL5. <i>Archives of Biochemistry and Biophysics</i> , <b>2017</b> , 616, 30-39	4.1	1
31	Structural and functional insights into corrinoid iron-sulfur protein from human pathogen <i>Clostridium difficile</i> . <i>Journal of Inorganic Biochemistry</i> , <b>2017</b> , 170, 26-33	4.2	3
30	Heme-containing enzymes and inhibitors for tryptophan metabolism. <i>Metallomics</i> , <b>2017</b> , 9, 1230-1240	4.5	12

29	Rational design of artificial dye-decolorizing peroxidases using myoglobin by engineering Tyr/Trp in the heme center. <i>Dalton Transactions</i> , <b>2017</b> , 46, 11230-11238	4.3	24
28	The Efficacy and Pharmacological Mechanism of ZnMT3 to Protect against Alzheimer's Disease. <i>Scientific Reports</i> , <b>2017</b> , 7, 13763	4.9	11
27	Insights into the interactions between corrinoid iron-sulfur protein and methyl transferase from human pathogen <i>Clostridium difficile</i> . <i>Chemical Research in Chinese Universities</i> , <b>2017</b> , 33, 731-735	2.2	
26	Probing the Molecular Mechanism of Human Soluble Guanylate Cyclase Activation by NO in vitro and in vivo. <i>Scientific Reports</i> , <b>2017</b> , 7, 43112	4.9	13
25	Antitumor Activity of cGAMP via Stimulation of cGAS-cGAMP-STING-IRF3 Mediated Innate Immune Response. <i>Scientific Reports</i> , <b>2016</b> , 6, 19049	4.9	119
24	Regulating the nitrite reductase activity of myoglobin by redesigning the heme active center. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2016</b> , 57, 21-29	5	16
23	Distinct mechanisms for DNA cleavage by myoglobin with a designed heme active center. <i>Journal of Inorganic Biochemistry</i> , <b>2016</b> , 156, 113-21	4.2	13
22	The molecular mechanism of heme loss from oxidized soluble guanylate cyclase induced by conformational change. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2016</b> , 1864, 488-500	4	8
21	Probing the molecular mechanism of cerium oxide nanoparticles in protecting against the neuronal cytotoxicity of A $\beta$ -42 with copper ions. <i>Metallomics</i> , <b>2016</b> , 8, 644-7	4.5	11
20	An intramolecular disulfide bond designed in myoglobin fine-tunes both protein structure and peroxidase activity. <i>Archives of Biochemistry and Biophysics</i> , <b>2016</b> , 600, 47-55	4.1	19
19	Distinct roles of a tyrosine-associated hydrogen-bond network in fine-tuning the structure and function of heme proteins: two cases designed for myoglobin. <i>Molecular BioSystems</i> , <b>2016</b> , 12, 3139-45		4
18	Rational Design of Dual Active Sites in a Single Protein Scaffold: A Case Study of Heme Protein in Myoglobin. <i>ChemistryOpen</i> , <b>2016</b> , 5, 192-196	2.3	8
17	A novel tyrosine-heme C $\alpha$ covalent linkage in F43Y myoglobin: a new post-translational modification of heme proteins. <i>ChemBioChem</i> , <b>2015</b> , 16, 47-50	3.8	29
16	Regulating the coordination state of a heme protein by a designed distal hydrogen-bonding network. <i>ChemistryOpen</i> , <b>2015</b> , 4, 97-101	2.3	22
15	How a novel tyrosine-heme cross-link fine-tunes the structure and functions of heme proteins: a direct comparative study of L29H/F43Y myoglobin. <i>Dalton Transactions</i> , <b>2015</b> , 44, 18815-22	4.3	18
14	Beta amyloid-induced upregulation of death receptor 6 accelerates the toxic effect of N-terminal fragment of amyloid precursor protein. <i>Neurobiology of Aging</i> , <b>2015</b> , 36, 157-68	5.6	10
13	Structural basis for cytochrome c Y67H mutant to function as a peroxidase. <i>PLoS ONE</i> , <b>2014</b> , 9, e107305	3.7	19
12	Structural and functional investigation into acetyl-coenzyme A synthase and methyltransferase from human pathogen <i>Clostridium difficile</i> . <i>Metallomics</i> , <b>2013</b> , 5, 551-8	4.5	5

11	Structural and nitrite reductase activity comparisons of myoglobins with one to three distal histidines. <i>RSC Advances</i> , <b>2013</b> , 3, 9337	3.7	15
10	Efficient preparation and metal specificity of the regulatory protein TroR from the human pathogen <i>Treponema pallidum</i> . <i>Metallomics</i> , <b>2013</b> , 5, 1448-57	4.5	5
9	Functional conversion of nickel-containing metalloproteins via molecular design: from a truncated acetyl-coenzyme A synthase to a nickel superoxide dismutase. <i>Chemical Communications</i> , <b>2013</b> , 49, 1452-4	5.8	3
8	Soluble guanylate cyclase in NO signaling transduction. <i>Reviews in Inorganic Chemistry</i> , <b>2013</b> , 33, 193-205.	5.4	
7	The structural basis of iron sensing by the human F-box protein FBXL5. <i>ChemBioChem</i> , <b>2012</b> , 13, 788-91	3.8	18
6	Efficient expression and purification of methyltransferase in acetyl-coenzyme a synthesis pathway of the human pathogen <i>Clostridium difficile</i> . <i>Protein Expression and Purification</i> , <b>2011</b> , 78, 86-93	2	7
5	Distinct mechanisms for the pro-apoptotic conformational transition and alkaline transition in cytochrome c. <i>Chemical Communications</i> , <b>2010</b> , 46, 3541-3	5.8	11
4	Structural and functional insights into CYP2C8.3: A genetic polymorph of cytochrome P450 2C8. <i>Science China Chemistry</i> , <b>2010</b> , 53, 2200-2207	7.9	1
3	Novel Conformational Transitions of Human Cytochrome P450 2C8 during Thermal and Acid-induced Unfolding. <i>Chinese Journal of Chemistry</i> , <b>2010</b> , 28, 1491-1502	4.9	4
2	Metalloproteins/metalloenzymes for the synthesis of acetyl-CoA in the Wood-Ljungdahl pathway. <i>Science in China Series B: Chemistry</i> , <b>2009</b> , 52, 2071-2082		13
1	Tyrosine-67 in cytochrome c is a possible apoptotic trigger controlled by hydrogen bonds via a conformational transition. <i>Chemical Communications</i> , <b>2009</b> , 4512-4	5.8	51