

# Pinghua Liu

## List of Publications by Year in descending order

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24  
papers

1,099  
citations

471509

17  
h-index

610901

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1158  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic photoreactors-coated plastic tubing as combined-active-and-passive antimicrobial flow sterilizer. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2001-2010.	5.8	0
2	OvoA<sub>Mtht</sub> from <i>Methyloversatilis thermotolerans</i> ovothiol biosynthesis is a bifunction enzyme: thiol oxygenase and sulfoxide synthase activities. <i>Chemical Science</i> , 2022, 13, 3589-3598.	7.4	14
3	Dissecting the Mechanism of the Nonheme Iron Endoperoxidase FtmOx1 Using Substrate Analogues. <i>Jacs Au</i> , 2022, 2, 1686-1698.	7.9	11
4	Chemical modifications of proteins and their applications in metalloenzyme studies. <i>Synthetic and Systems Biotechnology</i> , 2021, 6, 32-49.	3.7	22
5	Implications for an Imidazole-2-yl Carbene Intermediate in the Rhodanase-Catalyzed C-S Bond Formation Reaction of Anaerobic Ergothioneine Biosynthesis. <i>ACS Catalysis</i> , 2021, 11, 3319-3334.	11.2	12
6	Hybrid Plasmonic Photoreactors as Visible Light-Mediated Bactericides. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 106-116.	8.0	21
7	Single-Step Replacement of an Unreactive C-H Bond by a C-S Bond Using Polysulfide as the Direct Sulfur Source in the Anaerobic Ergothioneine Biosynthesis. <i>ACS Catalysis</i> , 2020, 10, 8981-8994.	11.2	15
8	Crystal Structure of the Ergothioneine Sulfoxide Synthase from <i>Candidatus Chloracidobacterium thermophilum</i> and Structure-Guided Engineering To Modulate Its Substrate Selectivity. <i>ACS Catalysis</i> , 2019, 9, 6955-6961.	11.2	18
9	Biochemical Characterization of a Multifunctional Mononuclear Nonheme Iron Enzyme (PtID) in Neopentalenoketolactone Biosynthesis. <i>Organic Letters</i> , 2019, 21, 7592-7596.	4.6	9
10	Non-heme iron enzyme-catalyzed complex transformations. <i>Advances in Protein Chemistry and Structural Biology</i> , 2019, 117, 1-61.	2.3	3
11	Mechanistic Studies of a Nonheme Iron Enzyme OvoA in Ovothiol Biosynthesis Using a Tyrosine Analogue, 2-Amino-3-(4-hydroxy-3-(methoxyl) phenyl) Propanoic Acid (MeOTyr). <i>ACS Catalysis</i> , 2019, 9, 253-258.	11.2	22
12	Snapshots of C-S Cleavage in Egt2 Reveals Substrate Specificity and Reaction Mechanism. <i>Cell Chemical Biology</i> , 2018, 25, 519-529.e4.	5.2	29
13	Mini-Review: Ergothioneine and Ovothiol Biosyntheses, an Unprecedented Trans-Sulfur Strategy in Natural Product Biosynthesis. <i>Biochemistry</i> , 2018, 57, 3309-3325.	2.5	56
14	Use of a Tyrosine Analogue To Modulate the Two Activities of a Nonheme Iron Enzyme OvoA in Ovothiol Biosynthesis, Cysteine Oxidation versus Oxidative C-S Bond Formation. <i>Journal of the American Chemical Society</i> , 2018, 140, 4604-4612.	13.7	42
15	Mechanistic Elucidation of Two Catalytically Versatile Iron(II)- and $\alpha$ -Ketoglutarate-Dependent Enzymes: Cases Beyond Hydroxylation. <i>Comments on Inorganic Chemistry</i> , 2018, 38, 127-165.	5.2	4
16	Recent examples of $\alpha$ -ketoglutarate-dependent mononuclear non-haem iron enzymes in natural product biosyntheses. <i>Natural Product Reports</i> , 2018, 35, 792-837.	10.3	122
17	Plasmonic Nanotrough Networks for Scalable Bacterial Raman Biosensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27928-27935.	8.0	22
18	<i>In Vitro</i> Reconstitution of the Remaining Steps in Ovothiol A Biosynthesis: C-S Lyase and Methyltransferase Reactions. <i>Organic Letters</i> , 2018, 20, 5427-5430.	4.6	26

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19	Mechanistic studies of a novel C-S lyase in ergothioneine biosynthesis: the involvement of a sulfenic acid intermediate. <i>Scientific Reports</i> , 2015, 5, 11870.	3.3	42
20	Bioinformatic and Biochemical Characterizations of C-S Bond Formation and Cleavage Enzymes in the Fungus <i>Neurospora crassa</i> Ergothioneine Biosynthetic Pathway. <i>Organic Letters</i> , 2014, 16, 5382-5385.	4.6	74
21	Cysteine Oxidation Reactions Catalyzed by a Mononuclear Non-heme Iron Enzyme (OvoA) in Ovothiol Biosynthesis. <i>Organic Letters</i> , 2014, 16, 2122-2125.	4.6	48
22	Regioselectivity of the Oxidative C-S Bond Formation in Ergothioneine and Ovothiol Biosyntheses. <i>Organic Letters</i> , 2013, 15, 4854-4857.	4.6	53
23	Methylerythritol Phosphate Pathway of Isoprenoid Biosynthesis. <i>Annual Review of Biochemistry</i> , 2013, 82, 497-530.	11.1	248
24	Protein Purification and Function Assignment of the Epoxidase Catalyzing the Formation of Fosfomycin. <i>Journal of the American Chemical Society</i> , 2001, 123, 4619-4620.	13.7	97