

Pinghua Liu

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,099
citations

471509

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24
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docs citations

25
times ranked

1158
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Methylerythritol Phosphate Pathway of Isoprenoid Biosynthesis. Annual Review of Biochemistry, 2013, 82, 497-530. | 11.1 | 248 |
| 2 | Recent examples of \pm -ketoglutarate-dependent mononuclear non-haem iron enzymes in natural product biosyntheses. Natural Product Reports, 2018, 35, 792-837. | 10.3 | 122 |
| 3 | Protein Purification and Function Assignment of the Epoxidase Catalyzing the Formation of Fosfomicin. Journal of the American Chemical Society, 2001, 123, 4619-4620. | 13.7 | 97 |
| 4 | Bioinformatic and Biochemical Characterizations of C-S Bond Formation and Cleavage Enzymes in the Fungus <i>Neurospora crassa</i> Ergothioneine Biosynthetic Pathway. Organic Letters, 2014, 16, 5382-5385. | 4.6 | 74 |
| 5 | Mini-Review: Ergothioneine and Ovoidiol Biosyntheses, an Unprecedented Trans-Sulfur Strategy in Natural Product Biosynthesis. Biochemistry, 2018, 57, 3309-3325. | 2.5 | 56 |
| 6 | Regioselectivity of the Oxidative C-S Bond Formation in Ergothioneine and Ovoidiol Biosyntheses. Organic Letters, 2013, 15, 4854-4857. | 4.6 | 53 |
| 7 | Cysteine Oxidation Reactions Catalyzed by a Mononuclear Non-heme Iron Enzyme (OvoA) in Ovoidiol Biosynthesis. Organic Letters, 2014, 16, 2122-2125. | 4.6 | 48 |
| 8 | Mechanistic studies of a novel C-S lyase in ergothioneine biosynthesis: the involvement of a sulfenic acid intermediate. Scientific Reports, 2015, 5, 11870. | 3.3 | 42 |
| 9 | Use of a Tyrosine Analogue To Modulate the Two Activities of a Nonheme Iron Enzyme OvoA in Ovoidiol Biosynthesis, Cysteine Oxidation versus Oxidative C-S Bond Formation. Journal of the American Chemical Society, 2018, 140, 4604-4612. | 13.7 | 42 |
| 10 | Snapshots of C-S Cleavage in Egt2 Reveals Substrate Specificity and Reaction Mechanism. Cell Chemical Biology, 2018, 25, 519-529.e4. | 5.2 | 29 |
| 11 | <i>In Vitro</i> Reconstitution of the Remaining Steps in Ovoidiol A Biosynthesis: C-S Lyase and Methyltransferase Reactions. Organic Letters, 2018, 20, 5427-5430. | 4.6 | 26 |
| 12 | Plasmonic Nanotrough Networks for Scalable Bacterial Raman Biosensing. ACS Applied Materials & Interfaces, 2018, 10, 27928-27935. | 8.0 | 22 |
| 13 | Mechanistic Studies of a Nonheme Iron Enzyme OvoA in Ovoidiol Biosynthesis Using a Tyrosine Analogue, 2-Amino-3-(4-hydroxy-3-(methoxyl) phenyl) Propanoic Acid (MeOTyr). ACS Catalysis, 2019, 9, 253-258. | 11.2 | 22 |
| 14 | Chemical modifications of proteins and their applications in metalloenzyme studies. Synthetic and Systems Biotechnology, 2021, 6, 32-49. | 3.7 | 22 |
| 15 | Hybrid Plasmonic Photoreactors as Visible Light-Mediated Bactericides. ACS Applied Materials & Interfaces, 2020, 12, 106-116. | 8.0 | 21 |
| 16 | Crystal Structure of the Ergothioneine Sulfoxide Synthase from <i>Candidatus Chloracidobacterium thermophilum</i> and Structure-Guided Engineering To Modulate Its Substrate Selectivity. ACS Catalysis, 2019, 9, 6955-6961. | 11.2 | 18 |
| 17 | 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. ACS Catalysis, 2020, 10, 8981-8994. | 11.2 | 15 |
| 18 | OvoA _{Mtht} from <i>Methyloversatilis thermotolerans</i> ovoidiol biosynthesis is a bifunction enzyme: thiol oxygenase and sulfoxide synthase activities. Chemical Science, 2022, 13, 3589-3598. | 7.4 | 14 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | Dissecting the Mechanism of the Nonheme Iron Endoperoxidase FtmOx1 Using Substrate Analogues. <i>Jacs Au</i> , 2022, 2, 1686-1698. | 7.9 | 11 |
| 21 | Biochemical Characterization of a Multifunctional Mononuclear Nonheme Iron Enzyme (PtlD) in Neopentalenoketolactone Biosynthesis. <i>Organic Letters</i> , 2019, 21, 7592-7596. | 4.6 | 9 |
| 22 | Mechanistic Elucidation of Two Catalytically Versatile Iron(II)- and α -Ketoglutarate-Dependent Enzymes: Cases Beyond Hydroxylation. <i>Comments on Inorganic Chemistry</i> , 2018, 38, 127-165. | 5.2 | 4 |
| 23 | Non-heme iron enzyme-catalyzed complex transformations. <i>Advances in Protein Chemistry and Structural Biology</i> , 2019, 117, 1-61. | 2.3 | 3 |
| 24 | 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 |