

Zhihong Guo

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.

55
papers

3,067
citations

23
h-index

55
g-index

57
ext. papers

3,293
ext. citations

6.9
avg, IF

4.58
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 55 | Cry3Aa*SpyCatcher Fusion Crystals Produced in Bacteria as Scaffolds for Multienzyme Coimmobilization.. <i>Bioconjugate Chemistry</i> , 2022 , | 6.3 | 1 |
| 54 | Listeria monocytogenes MenI Encodes a DHNA-CoA Thioesterase Necessary for Menaquinone Biosynthesis, Cytosolic Survival, and Virulence. <i>Infection and Immunity</i> , 2021 , 89, | 3.7 | 5 |
| 53 | A tough nitric oxide-eluting hydrogel coating suppresses neointimal hyperplasia on vascular stent. <i>Nature Communications</i> , 2021 , 12, 7079 | 17.4 | 5 |
| 52 | Substrate Recognition and Catalytic Mechanism of the Phosphate Acyltransferase PlsX from Bacillus subtilis. <i>ChemBioChem</i> , 2020 , 21, 2019-2028 | 3.8 | 0 |
| 51 | Identification of an amphipathic peptide sensor of the fluid membrane microdomains. <i>Communications Biology</i> , 2019 , 2, 316 | 6.7 | 4 |
| 50 | Single-Turnover Kinetics Reveal a Distinct Mode of Thiamine Diphosphate-Dependent Catalysis in Vitamin K Biosynthesis. <i>ChemBioChem</i> , 2018 , 19, 1514-1522 | 3.8 | 3 |
| 49 | Two active site arginines are critical determinants of substrate binding and catalysis in MenD: a thiamine-dependent enzyme in menaquinone biosynthesis. <i>Biochemical Journal</i> , 2018 , 475, 3651-3667 | 3.8 | 8 |
| 48 | Crystal structure of the thioesterification conformation of -succinylbenzoyl-CoA synthetase reveals a distinct substrate-binding mode. <i>Journal of Biological Chemistry</i> , 2017 , 292, 12296-12310 | 5.4 | 4 |
| 47 | Facile formation of a microporous chitosan hydrogel based on self-crosslinking. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 9291-9299 | 7.3 | 14 |
| 46 | Mechanistic Insights from the Crystal Structure of Bacillus subtilis o-Succinylbenzoyl-CoA Synthetase Complexed with the Adenylate Intermediate. <i>Biochemistry</i> , 2016 , 55, 6685-6695 | 3.2 | 7 |
| 45 | An Atypical β -Hydrolase Fold Revealed in the Crystal Structure of Pimeloyl-Acyl Carrier Protein Methyl Esterase BioG from Haemophilus influenzae. <i>Biochemistry</i> , 2016 , 55, 6705-6717 | 3.2 | 15 |
| 44 | A Thiamine-Dependent Enzyme Utilizes an Active Tetrahedral Intermediate in Vitamin K Biosynthesis. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7244-7 | 16.4 | 11 |
| 43 | A novel curcumin analog binds to and activates TFEB in vitro and in vivo independent of MTOR inhibition. <i>Autophagy</i> , 2016 , 12, 1372-89 | 10.2 | 97 |
| 42 | Microsecond protein folding events revealed by time-resolved fluorescence resonance energy transfer in a microfluidic mixer. <i>Analytical Chemistry</i> , 2015 , 87, 5589-95 | 7.8 | 17 |
| 41 | Structural Basis for the ATP-dependent Configuration of Adenylation Active Site in Bacillus subtilis o-Succinylbenzoyl-CoA Synthetase. <i>Journal of Biological Chemistry</i> , 2015 , 290, 23971-83 | 5.4 | 10 |
| 40 | Identification and characterization of a methionine β -lyase in the calicheamicin biosynthetic cluster of Micromonospora echinospora. <i>ChemBioChem</i> , 2015 , 16, 100-9 | 3.8 | 13 |
| 39 | A Universal and Facile Approach for the Formation of a Protein Hydrogel for 3D Cell Encapsulation. <i>Advanced Functional Materials</i> , 2015 , 25, 6189-6198 | 15.6 | 20 |

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| 38 | Cascade biocatalysis by multienzyme-nanoparticle assemblies. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1387-94 | 6.3 | 44 |
| 37 | Molecular basis of the general base catalysis of an β -hydrolase catalytic triad. <i>Journal of Biological Chemistry</i> , 2014 , 289, 15867-79 | 5.4 | 19 |
| 36 | Ligand-dependent active-site closure revealed in the crystal structure of Mycobacterium tuberculosis MenB complexed with product analogues. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 2959-69 | | 3 |
| 35 | The thiamine-dependent enzyme of the vitamin K biosynthesis catalyzes reductive C-N bond ligation between nitroarenes and β -ketoacids. <i>Science China Chemistry</i> , 2013 , 56, 312-320 | 7.9 | |
| 34 | Identification of a hotdog fold thioesterase involved in the biosynthesis of menaquinone in Escherichia coli. <i>Journal of Bacteriology</i> , 2013 , 195, 2768-75 | 3.5 | 45 |
| 33 | Characterization of 1,4-dihydroxy-2-naphthoyl-coenzyme A synthase (MenB) in phylloquinone biosynthesis of Synechocystis sp. PCC 6803. <i>Science China Chemistry</i> , 2012 , 55, 98-105 | 7.9 | 4 |
| 32 | Active site binding and catalytic role of bicarbonate in 1,4-dihydroxy-2-naphthoyl coenzyme A synthases from vitamin K biosynthetic pathways. <i>Biochemistry</i> , 2012 , 51, 4580-9 | 3.2 | 10 |
| 31 | Stabilization of the second oxyanion intermediate by 1,4-dihydroxy-2-naphthoyl-coenzyme A synthase of the menaquinone pathway: spectroscopic evidence of the involvement of a conserved aspartic acid. <i>Biochemistry</i> , 2011 , 50, 5893-904 | 3.2 | 9 |
| 30 | A bicarbonate cofactor modulates 1,4-dihydroxy-2-naphthoyl-coenzyme a synthase in menaquinone biosynthesis of Escherichia coli. <i>Journal of Biological Chemistry</i> , 2010 , 285, 30159-69 | 5.4 | 18 |
| 29 | Structure and reactivity of Bacillus subtilis MenD catalyzing the first committed step in menaquinone biosynthesis. <i>Journal of Molecular Biology</i> , 2010 , 401, 253-64 | 6.5 | 28 |
| 28 | Identification of a Nonaketide Product for the Iterative Polyketide Synthase in Biosynthesis of the Nine-Membered Eneidyne C-1027. <i>Angewandte Chemie</i> , 2010 , 122, 8098-8100 | 3.6 | 4 |
| 27 | Identification of a nonaketide product for the iterative polyketide synthase in biosynthesis of the nine-membered enediyne C-1027. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7926-8 | 16.4 | 12 |
| 26 | Structural change of the enterobactin synthetase in crowded solution and its relation to crowding-enhanced product specificity in nonribosomal enterobactin biosynthesis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 3855-8 | 2.9 | 10 |
| 25 | Catalytic mechanism of SHCHC synthase in the menaquinone biosynthesis of Escherichia coli: identification and mutational analysis of the active site residues. <i>Biochemistry</i> , 2009 , 48, 6921-31 | 3.2 | 29 |
| 24 | Enzyme-instructed molecular self-assembly confers nanofibers and a supramolecular hydrogel of taxol derivative. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13576-7 | 16.4 | 334 |
| 23 | Preferential hydrolysis of aberrant intermediates by the type II thioesterase in Escherichia coli nonribosomal enterobactin synthesis: substrate specificities and mutagenic studies on the active-site residues. <i>Biochemistry</i> , 2009 , 48, 1712-22 | 3.2 | 27 |
| 22 | Identification and characterization of (1R,6R)-2-succinyl-6-hydroxy-2,4-cyclohexadiene-1-carboxylate synthase in the menaquinone biosynthesis of Escherichia coli. <i>Biochemistry</i> , 2008 , 47, 3426-34 | 3.2 | 64 |
| 21 | Suppression of linear side products by macromolecular crowding in nonribosomal enterobactin biosynthesis. <i>Organic Letters</i> , 2008 , 10, 649-52 | 6.2 | 12 |

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| 20 | Menaquinone biosynthesis in <i>Escherichia coli</i> : identification of 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylate as a novel intermediate and re-evaluation of MenD activity. <i>Biochemistry</i> , 2007 , 46, 10979-89 | 3.2 | 87 |
| 19 | Using beta-lactamase to trigger supramolecular hydrogelation. <i>Journal of the American Chemical Society</i> , 2007 , 129, 266-7 | 16.4 | 188 |
| 18 | Determination of the stereochemistry of 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylate, a key intermediate in menaquinone biosynthesis. <i>Organic Letters</i> , 2007 , 9, 4765-7 | 6.2 | 27 |
| 17 | Effects of macromolecular crowding on the intrinsic catalytic efficiency and structure of enterobactin-specific isochorismate synthase. <i>Journal of the American Chemical Society</i> , 2007 , 129, 730-1 | 16.4 | 94 |
| 16 | Intracellular hydrogelation of small molecules inhibits bacterial growth. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8216-9 | 16.4 | 185 |
| 15 | Solid-phase total synthesis and antimicrobial activities of loloatins A-D. <i>Chemistry and Biodiversity</i> , 2007 , 4, 2827-34 | 2.5 | 12 |
| 14 | Intracellular Hydrogelation of Small Molecules Inhibits Bacterial Growth. <i>Angewandte Chemie</i> , 2007 , 119, 8364-8367 | 3.6 | 23 |
| 13 | Amino terminus of the SARS coronavirus protein 3a elicits strong, potentially protective humoral responses in infected patients. <i>Journal of General Virology</i> , 2006 , 87, 369-373 | 4.9 | 31 |
| 12 | Macrolactonization catalyzed by the terminal thioesterase domain of the nonribosomal peptide synthetase responsible for lichenysin biosynthesis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 2595-9 | 2.9 | 3 |
| 11 | B-cell responses in patients who have recovered from severe acute respiratory syndrome target a dominant site in the S2 domain of the surface spike glycoprotein. <i>Journal of Virology</i> , 2005 , 79, 3401-8 | 6.6 | 80 |
| 10 | Dopamine as a robust anchor to immobilize functional molecules on the iron oxide shell of magnetic nanoparticles. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9938-9 | 16.4 | 793 |
| 9 | Nitrilotriacetic acid-modified magnetic nanoparticles as a general agent to bind histidine-tagged proteins. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3392-3 | 16.4 | 409 |
| 8 | Facile solid-phase synthesis of cyclic decapeptide antibiotic streptocidins AD. <i>Tetrahedron Letters</i> , 2004 , 45, 217-220 | 2 | 15 |
| 7 | Optimization of antibacterial cyclic decapeptides. <i>ACS Combinatorial Science</i> , 2004 , 6, 398-406 | | 34 |
| 6 | Dissociation of antibacterial and hemolytic activities of an amphipathic peptide antibiotic. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 4830-3 | 8.3 | 35 |
| 5 | A chemical approach to generate molecular diversity based on the scaffold of cyclic decapeptide antibiotic tyrocidine A. <i>ACS Combinatorial Science</i> , 2003 , 5, 353-5 | | 30 |
| 4 | Biomimetic synthesis of gramicidin s and analogues by enzymatic cyclization of linear precursors on solid support. <i>Organic Letters</i> , 2003 , 5, 1749-52 | 6.2 | 27 |
| 3 | Substrate spectrum of tyrocidine thioesterase probed with randomized peptide N-acetylcysteamine thioesters. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 989-92 | 2.9 | 6 |

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| 2 | An improved deblocking agent for direct Fmoc solid-phase synthesis of peptide thioesters. <i>Tetrahedron Letters</i> , 2002 , 43, 2419-2422 | 2 | 42 |
| 1 | Synthesis of tyrocidine A and its analogues by spontaneous cyclization in aqueous solution. <i>Organic Letters</i> , 2002 , 4, 2893-5 | 6.2 | 40 |