

Zhihong Guo

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55
papers

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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	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
54	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
53	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
52	Using beta-lactamase to trigger supramolecular hydrogelation. <i>Journal of the American Chemical Society</i> , 2007 , 129, 266-7	16.4	188
51	Intracellular hydrogelation of small molecules inhibits bacterial growth. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8216-9	16.4	185
50	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
49	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
48	Menaquinone biosynthesis in Escherichia coli: 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
47	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
46	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
45	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
44	Cascade biocatalysis by multienzyme-nanoparticle assemblies. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1387-9	6.3	44
43	An improved deblocking agent for direct Fmoc solid-phase synthesis of peptide thioesters. <i>Tetrahedron Letters</i> , 2002 , 43, 2419-2422	2	42
42	Synthesis of tyrocidine A and its analogues by spontaneous cyclization in aqueous solution. <i>Organic Letters</i> , 2002 , 4, 2893-5	6.2	40
41	Dissociation of antibacterial and hemolytic activities of an amphipathic peptide antibiotic. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 4830-3	8.3	35
40	Optimization of antibacterial cyclic decapeptides. <i>ACS Combinatorial Science</i> , 2004 , 6, 398-406		34
39	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

38	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
37	Catalytic mechanism of SHCHC synthase in the menaquinone biosynthesis of <i>Escherichia coli</i> : identification and mutational analysis of the active site residues. <i>Biochemistry</i> , 2009 , 48, 6921-31	3.2	29
36	Structure and reactivity of <i>Bacillus subtilis</i> MenD catalyzing the first committed step in menaquinone biosynthesis. <i>Journal of Molecular Biology</i> , 2010 , 401, 253-64	6.5	28
35	Preferential hydrolysis of aberrant intermediates by the type II thioesterase in <i>Escherichia coli</i> nonribosomal enterobactin synthesis: substrate specificities and mutagenic studies on the active-site residues. <i>Biochemistry</i> , 2009 , 48, 1712-22	3.2	27
34	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
33	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
32	Intracellular Hydrogelation of Small Molecules Inhibits Bacterial Growth. <i>Angewandte Chemie</i> , 2007 , 119, 8364-8367	3.6	23
31	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
30	Molecular basis of the general base catalysis of an α -hydrolase catalytic triad. <i>Journal of Biological Chemistry</i> , 2014 , 289, 15867-79	5.4	19
29	A bicarbonate cofactor modulates 1,4-dihydroxy-2-naphthoyl-coenzyme a synthase in menaquinone biosynthesis of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2010 , 285, 30159-69	5.4	18
28	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
27	An Atypical α -Hydrolase Fold Revealed in the Crystal Structure of Pimeloyl-Acyl Carrier Protein Methyl Esterase BioG from <i>Haemophilus influenzae</i> . <i>Biochemistry</i> , 2016 , 55, 6705-6717	3.2	15
26	Facile solid-phase synthesis of cyclic decapeptide antibiotic streptocidins AD. <i>Tetrahedron Letters</i> , 2004 , 45, 217-220	2	15
25	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
24	Identification and characterization of a methionine β -lyase in the calicheamicin biosynthetic cluster of <i>Micromonospora echinospora</i> . <i>ChemBioChem</i> , 2015 , 16, 100-9	3.8	13
23	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
22	Suppression of linear side products by macromolecular crowding in nonribosomal enterobactin biosynthesis. <i>Organic Letters</i> , 2008 , 10, 649-52	6.2	12
21	Solid-phase total synthesis and antimicrobial activities of loloatins A-D. <i>Chemistry and Biodiversity</i> , 2007 , 4, 2827-34	2.5	12

20	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
19	Structural Basis for the ATP-dependent Configuration of Adenylation Active Site in <i>Bacillus subtilis</i> o-Succinylbenzoyl-CoA Synthetase. <i>Journal of Biological Chemistry</i> , 2015 , 290, 23971-83	5.4	10
18	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
17	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
16	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
15	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
14	Mechanistic Insights from the Crystal Structure of <i>Bacillus subtilis</i> o-Succinylbenzoyl-CoA Synthetase Complexed with the Adenylate Intermediate. <i>Biochemistry</i> , 2016 , 55, 6685-6695	3.2	7
13	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
12	<i>Listeria monocytogenes</i> MenI Encodes a DHNA-CoA Thioesterase Necessary for Menaquinone Biosynthesis, Cytosolic Survival, and Virulence. <i>Infection and Immunity</i> , 2021 , 89,	3.7	5
11	A tough nitric oxide-eluting hydrogel coating suppresses neointimal hyperplasia on vascular stent. <i>Nature Communications</i> , 2021 , 12, 7079	17.4	5
10	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
9	Identification of an amphipathic peptide sensor of the fluid membrane microdomains. <i>Communications Biology</i> , 2019 , 2, 316	6.7	4
8	Characterization of 1,4-dihydroxy-2-naphthoyl-coenzyme A synthase (MenB) in phylloquinone biosynthesis of <i>Synechocystis</i> sp. PCC 6803. <i>Science China Chemistry</i> , 2012 , 55, 98-105	7.9	4
7	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
6	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
5	Ligand-dependent active-site closure revealed in the crystal structure of <i>Mycobacterium tuberculosis</i> MenB complexed with product analogues. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 2959-69		3
4	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
3	Cry3Aa*SpyCatcher Fusion Crystals Produced in Bacteria as Scaffolds for Multienzyme Coimmobilization.. <i>Bioconjugate Chemistry</i> , 2022 ,	6.3	1

- 2 Substrate Recognition and Catalytic Mechanism of the Phosphate Acyltransferase PIsX from *Bacillus subtilis*. *ChemBioChem*, **2020**, 21, 2019-2028 3.8 0
- 1 The thiamine-dependent enzyme of the vitamin K biosynthesis catalyzes reductive C-N bond ligation between nitroarenes and β -ketoacids. *Science China Chemistry*, **2013**, 56, 312-320 7.9