

# Ning Gao

## List of Publications by Year in descending order

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46  
papers

2,092  
citations

331259

21  
h-index

243296

44  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2533  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of Avibactam Inhibition against Class A, C, and D $\beta$ -Lactamases. <i>Journal of Biological Chemistry</i> , 2013, 288, 27960-27971.	1.6	301
2	<i>Saccharomyces boulardii</i> inhibits <i>Clostridium difficile</i> toxin A binding and enterotoxicity in rat ileum. <i>Gastroenterology</i> , 1993, 104, 1108-1115.	0.6	262
3	ETX2514 is a broad-spectrum $\beta$ -lactamase inhibitor for the treatment of drug-resistant Gram-negative bacteria including <i>Acinetobacter baumannii</i> . <i>Nature Microbiology</i> , 2017, 2, 17104.	5.9	187
4	A Recombinant Human Cytomegalovirus with a Large Deletion in <i>UL97</i> Has a Severe Replication Deficiency. <i>Journal of Virology</i> , 1999, 73, 5663-5670.	1.5	183
5	Molecular Mechanisms of Sulbactam Antibacterial Activity and Resistance Determinants in <i>Acinetobacter baumannii</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 1680-1689.	1.4	148
6	Pyrrrolamide DNA Gyrase Inhibitors: Fragment-Based Nuclear Magnetic Resonance Screening To Identify Antibacterial Agents. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 1240-1246.	1.4	99
7	Novel Bacterial NAD <sup>+</sup> -Dependent DNA Ligase Inhibitors with Broad-Spectrum Activity and Antibacterial Efficacy <i>In Vivo</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 1088-1096.	1.4	95
8	Real-time Monitoring of New Delhi Metallo- $\beta$ -Lactamase Activity in Living Bacterial Cells by <sup>1</sup> H-NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2130-2133.	7.2	63
9	Biochemical Characterization of a Phosphinate Inhibitor of <i>Escherichia coli</i> MurC. <i>Biochemistry</i> , 2001, 40, 12207-12214.	1.2	56
10	In Vitro Validation of Acetyltransferase Activity of GlmU as an Antibacterial Target in <i>Haemophilus influenzae</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 40734-40742.	1.6	49
11	Reversibility of Covalent, Broad-Spectrum Serine $\beta$ -Lactamase Inhibition by the Diazabicyclooctenone ETX2514. <i>ACS Infectious Diseases</i> , 2017, 3, 833-844.	1.8	46
12	Selective Inhibitors of Bacterial t-RNA-(N <sup>1</sup> G37) Methyltransferase (TrmD) That Demonstrate Novel Ordering of the Lid Domain. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 7278-7288.	2.9	45
13	Mechanism of Action for Respiratory Syncytial Virus Inhibitor RSV604. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 1080-1087.	1.4	42
14	Discovery of Inhibitors of 4-Phosphopantetheine Adenylyltransferase (PPAT) To Validate PPAT as a Target for Antibacterial Therapy. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 6005-6015.	1.4	40
15	Negamycin induces translational stalling and miscoding by binding to the small subunit head domain of the <i>Escherichia coli</i> ribosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16274-16279.	3.3	36
16	Inhibition of <i>Neisseria gonorrhoeae</i> Type II Topoisomerases by the Novel Spiropyrimidinetrione AZD0914. <i>Journal of Biological Chemistry</i> , 2015, 290, 20984-20994.	1.6	34
17	Continuous fluorescence anisotropy-based assay of BOCILLIN FL penicillin reaction with penicillin binding protein 3. <i>Analytical Biochemistry</i> , 2013, 439, 37-43.	1.1	27
18	A Homogeneous, High-Throughput Fluorescence Anisotropy-Based DNA Supercoiling Assay. <i>Journal of Biomolecular Screening</i> , 2010, 15, 1088-1098.	2.6	26

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19	Novel Rapidly Diversifiable Antimicrobial RNA Polymerase Switch Region Inhibitors with Confirmed Mode of Action in <i>Haemophilus influenzae</i> . <i>Journal of Bacteriology</i> , 2012, 194, 5504-5512.	1.0	26
20	A High-Throughput, Homogeneous, Fluorescence Resonance Energy Transfer-Based Assay for Phospho-N-acetylmuramoyl-pentapeptide Translocase (MraY). <i>Journal of Biomolecular Screening</i> , 2012, 17, 662-672.	2.6	26
21	Exploring the UDP pocket of LpxC through amino acid analogs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 2362-2367.	1.0	25
22	The Role of a Novel Auxiliary Pocket in Bacterial Phenylalanyl-tRNA Synthetase Druggability. <i>Journal of Biological Chemistry</i> , 2014, 289, 21651-21662.	1.6	24
23	Target-Based Resistance in <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> to NBTI 5463, a Novel Bacterial Type II Topoisomerase Inhibitor. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 331-337.	1.4	21
24	Ceftazidime- and Avibactam Resistance Mutations V240G, D179Y, and D179Y/T243M in KPC-3 $\beta$ -Lactamase Do Not Alter Cefpodoxime-ETX1317 Susceptibility. <i>ACS Infectious Diseases</i> , 2021, 7, 79-87.	1.8	21
25	Synthesis, Structure, and SAR of Tetrahydropyran-Based LpxC Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 1213-1218.	1.3	20
26	Target-Based Whole-Cell Screening by <sup>1</sup> H- and <sup>13</sup> C-NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4764-4767.	7.2	20
27	SAR and Structural Analysis of Siderophore-Conjugated Monocarbam Inhibitors of <i>Pseudomonas aeruginosa</i> PBP3. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 537-542.	1.3	19
28	A homogeneous, high-throughput fluorescence resonance energy transfer-based DNA polymerase assay. <i>Analytical Biochemistry</i> , 2005, 347, 254-261.	1.1	17
29	Fluorescence anisotropy-based measurement of <i>Pseudomonas aeruginosa</i> penicillin-binding protein 2 transpeptidase inhibitor acylation rate constants. <i>Analytical Biochemistry</i> , 2014, 463, 15-22.	1.1	16
30	Identification through structure-based methods of a bacterial NAD <sup>+</sup> -dependent DNA ligase inhibitor that avoids known resistance mutations. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 360-366.	1.0	13
31	A High-Throughput-Compatible Fluorescence Anisotropy-Based Assay for Competitive Inhibitors of <i>Escherichia coli</i> UDP-N-Acetylglucosamine Acyltransferase (LpxA). <i>Journal of Biomolecular Screening</i> , 2013, 18, 341-347.	2.6	11
32	Quantitative investigation of the affinity of human respiratory syncytial virus phosphoprotein C-terminus binding to nucleocapsid protein. <i>Virology Journal</i> , 2014, 11, 191.	1.4	11
33	Time-dependent, reversible, oxaborole inhibition of <i>Escherichia coli</i> leucyl-tRNA synthetase measured with a continuous fluorescence assay. <i>Analytical Biochemistry</i> , 2012, 431, 48-53.	1.1	9
34	Real-Time Monitoring of New Delhi Metallo- $\beta$ -Lactamase Activity in Living Bacterial Cells by <sup>1</sup> H- and <sup>13</sup> C-NMR Spectroscopy. <i>Angewandte Chemie</i> , 2014, 126, 2162-2165.	1.6	9
35	Interactions of the Diazabicyclooctane Serine $\beta$ -Lactamase Inhibitor ETX1317 with Target Enzymes. <i>ACS Infectious Diseases</i> , 2021, 7, 114-122.	1.8	9
36	Antibody fragments structurally enable a drug-discovery campaign on the cancer target Mcl-1. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019, 75, 1003-1014.	1.1	7

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37	Structure Guided Understanding of NAD <sup>+</sup> Recognition in Bacterial DNA Ligases. ACS Chemical Biology, 2012, 7, 571-580.	1.6	6
38	Dimerization of isolated Pseudomonas aeruginosa lipopolysaccharide transporter component LptA. Biochemical and Biophysical Research Communications, 2014, 450, 1327-1332.	1.0	6
39	Overexpression of Pseudomonas aeruginosa LpxC with its inhibitors in an acrB-deficient Escherichia coli strain. Protein Expression and Purification, 2014, 104, 57-64.	0.6	6
40	A High-Throughput Absorbance-Based Assay for Methionine Produced by Methionine Aminopeptidase Using S-Adenosyl-L-Methionine Synthetase. Journal of Biomolecular Screening, 2011, 16, 494-505.	2.6	5
41	High-throughput, homogeneous, fluorescence intensity-based measurement of adenosine diphosphate and other ribonucleoside diphosphates with nanomolar sensitivity. Analytical Biochemistry, 2011, 415, 190-196.	1.1	4
42	A Homogeneous, High-Throughput-Compatible, Fluorescence Intensity-Based Assay for UDP-N-Acetylenolpyruvylglucosamine Reductase (MurB) with Nanomolar Product Detection. Journal of Biomolecular Screening, 2012, 17, 327-338.	2.6	4
43	Screening-based discovery of the first novel ATP competitive inhibitors of the Staphylococcus aureus essential enzyme UMP kinase. Biochemical and Biophysical Research Communications, 2013, 437, 162-167.	1.0	3
44	Crystal structure of <i>A. aeolicus</i> LpxC with bound product suggests alternate deacetylation mechanism. Proteins: Structure, Function and Bioinformatics, 2015, 83, 1706-1719.	1.5	3
45	DNA-dependent RNA polymerase from Enterobacter cloacae is closely related to Escherichia coli. International Journal of Biochemistry and Cell Biology, 1997, 29, 1485-1491.	1.2	2
46	Discovery of ATP-Competitive Inhibitors of tRNA <sup>Leu</sup> Lysidine Synthetase (Tls) by High-Throughput Screening. Journal of Biomolecular Screening, 2014, 19, 1137-1146.	2.6	2