

Xilin Zhao

List of Publications by Year in descending order

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84
papers

6,371
citations

76326

40
h-index

69250

77
g-index

85
all docs

85
docs citations

85
times ranked

5183
citing authors

#	ARTICLE	IF	CITATIONS
1	Quinolone-Mediated Bacterial Death. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 385-392.	3.2	450
2	Restricting the Selection of Antibiotic-Resistant Mutants: A General Strategy Derived from Fluoroquinolone Studies. <i>Clinical Infectious Diseases</i> , 2001, 33, S147-S156.	5.8	346
3	Mutant Selection Window Hypothesis Updated. <i>Clinical Infectious Diseases</i> , 2007, 44, 681-688.	5.8	345
4	Reactive oxygen species and the bacterial response to lethal stress. <i>Current Opinion in Microbiology</i> , 2014, 21, 1-6.	5.1	305
5	Mutant Prevention Concentrations of Fluoroquinolones for Clinical Isolates of <i>Streptococcus pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2001, 45, 433-438.	3.2	299
6	Quinolones: Action and Resistance Updated. <i>Current Topics in Medicinal Chemistry</i> , 2009, 9, 981-998.	2.1	292
7	Effect of Fluoroquinolone Concentration on Selection of Resistant Mutants of <i>Mycobacterium bovis</i> BCG and <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 1756-1758.	3.2	265
8	Post-stress bacterial cell death mediated by reactive oxygen species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10064-10071.	7.1	254
9	DNA topoisomerase targets of the fluoroquinolones: A strategy for avoiding bacterial resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 13991-13996.	7.1	203
10	Restricting the Selection of Antibiotic-Resistant Mutant Bacteria: Measurement and Potential Use of the Mutant Selection Window. <i>Journal of Infectious Diseases</i> , 2002, 185, 561-565.	4.0	203
11	Contribution of Oxidative Damage to Antimicrobial Lethality. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 1395-1402.	3.2	185
12	Selection of Antibiotic-Resistant Bacterial Mutants: Allelic Diversity among Fluoroquinolone-Resistant Mutations. <i>Journal of Infectious Diseases</i> , 2000, 182, 517-525.	4.0	131
13	Fluoroquinolone Action against Mycobacteria: Effects of C-8 Substituents on Growth, Survival, and Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42, 2978-2984.	3.2	125
14	Mutant Prevention Concentration as a Measure of Antibiotic Potency: Studies with Clinical Isolates of <i>Mycobacterium tuberculosis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 2581-2584.	3.2	124
15	Fluoroquinolone-Gyrase-DNA Complexes. <i>Journal of Biological Chemistry</i> , 2014, 289, 12300-12312.	3.4	123
16	Contribution of reactive oxygen species to pathways of quinolone-mediated bacterial cell death. <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 520-524.	3.0	117
17	Lethal fragmentation of bacterial chromosomes mediated by DNA gyrase and quinolones. <i>Molecular Microbiology</i> , 2006, 61, 810-825.	2.5	111
18	Lateral Flow Immunoassay Using Europium Chelate-Loaded Silica Nanoparticles as Labels. <i>Clinical Chemistry</i> , 2009, 55, 179-182.	3.2	110

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19	Fluoroquinolone-Resistant <i>Streptococcus pneumoniae</i> Associated with Levofloxacin Therapy. <i>Journal of Infectious Diseases</i> , 2001, 184, 794-798.	4.0	108
20	Selection of <i>Streptococcus pneumoniae</i> Mutants Having Reduced Susceptibility to Moxifloxacin and Levofloxacin. <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 522-524.	3.2	100
21	Emergence of resistant <i>Streptococcus pneumoniae</i> in an in vitro dynamic model that simulates moxifloxacin concentrations inside and outside the mutant selection window: related changes in susceptibility, resistance frequency and bacterial killing. <i>Journal of Antimicrobial Chemotherapy</i> , 2003, 52, 616-622.	3.0	99
22	The Mutant Selection Window in Rabbits Infected with <i>Staphylococcus aureus</i> . <i>Journal of Infectious Diseases</i> , 2006, 194, 1601-1608.	4.0	96
23	Gatifloxacin Activity against Quinolone-Resistant Gyrase: Allele-Specific Enhancement of Bacteriostatic and Bactericidal Activities by the C-8-Methoxy Group. <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 2969-2974.	3.2	94
24	Mutant Prevention Concentration as a Measure of Fluoroquinolone Potency against Mycobacteria. <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 3337-3343.	3.2	90
25	Killing of <i>Staphylococcus aureus</i> by C-8-Methoxy Fluoroquinolones. <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42, 956-958.	3.2	86
26	Selective Targeting of Topoisomerase IV and DNA Gyrase in <i>Staphylococcus aureus</i> : Different Patterns of Quinolone- Induced Inhibition of DNA Synthesis. <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 2160-2165.	3.2	84
27	Contribution of reactive oxygen species to thymineless death in <i>Escherichia coli</i> . <i>Nature Microbiology</i> , 2017, 2, 1667-1675.	13.3	75
28	YihE Kinase Is a Central Regulator of Programmed Cell Death in Bacteria. <i>Cell Reports</i> , 2013, 3, 528-537.	6.4	68
29	Fluoroquinolone and Quinazolinone Activities against Wild-Type and Gyrase Mutant Strains of <i>Mycobacterium smegmatis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2335-2343.	3.2	67
30	Inhibitors of Reactive Oxygen Species Accumulation Delay and/or Reduce the Lethality of Several Antistaphylococcal Agents. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 6048-6050.	3.2	66
31	A unified anti-mutant dosing strategy. <i>Journal of Antimicrobial Chemotherapy</i> , 2008, 62, 434-436.	3.0	65
32	Moving forward with reactive oxygen species involvement in antimicrobial lethality. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 639-642.	3.0	65
33	Mutant prevention concentration for ciprofloxacin and levofloxacin with <i>Pseudomonas aeruginosa</i> . <i>International Journal of Antimicrobial Agents</i> , 2006, 27, 120-124.	2.5	60
34	Enhancement of Fluoroquinolone Activity by C-8 Halogen and Methoxy Moieties: Action against a Gyrase Resistance Mutant of <i>Mycobacterium smegmatis</i> and a Gyrase-Topoisomerase IV Double Mutant of <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2001, 45, 2703-2709.	3.2	55
35	Cytokine storm induced by SARS-CoV-2 infection: The spectrum of its neurological manifestations. <i>Cytokine</i> , 2021, 138, 155404.	3.2	55
36	Superoxide-Mediated Protection of <i>Escherichia coli</i> from Antimicrobials. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 5755-5759.	3.2	48

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37	Resistance to Levofloxacin and Failure of Treatment of Pneumococcal Pneumonia. <i>New England Journal of Medicine</i> , 2002, 347, 65-67.	27.0	45
38	<i>Escherichia coli</i> genes that reduce the lethal effects of stress. <i>BMC Microbiology</i> , 2010, 10, 35.	3.3	44
39	Mutant Prevention Concentration of Garenoxacin (BMS-284756) for Ciprofloxacin-Susceptible or -Resistant <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2003, 47, 1023-1027.	3.2	43
40	Daptomycin inoculum effects and mutant prevention concentration with <i>Staphylococcus aureus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2007, 60, 1380-1383.	3.0	43
41	Mutant Prevention Concentration-Based Pharmacokinetic/Pharmacodynamic Indices as Dosing Targets for Suppressing the Enrichment of Levofloxacin-Resistant Subpopulations of <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2409-2412.	3.2	43
42	Low Correlation between MIC and Mutant Prevention Concentration. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 403-404.	3.2	42
43	Are the new quinolones appropriate treatment for community-acquired methicillin-resistant <i>Staphylococcus aureus</i> ?. <i>International Journal of Antimicrobial Agents</i> , 2004, 24, 32-34.	2.5	38
44	Dimethyl Sulfoxide Protects <i>Escherichia coli</i> from Rapid Antimicrobial-Mediated Killing. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5054-5058.	3.2	38
45	Effect of chloramphenicol, erythromycin, moxifloxacin, penicillin and tetracycline concentration on the recovery of resistant mutants of <i>Mycobacterium smegmatis</i> and <i>Staphylococcus aureus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2003, 52, 61-64.	3.0	34
46	Reactive oxygen species play a dominant role in all pathways of rapid quinolone-mediated killing. <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 576-585.	3.0	32
47	Resveratrol Antagonizes Antimicrobial Lethality and Stimulates Recovery of Bacterial Mutants. <i>PLoS ONE</i> , 2016, 11, e0153023.	2.5	32
48	Multicolor Combinatorial Probe Coding for Real-Time PCR. <i>PLoS ONE</i> , 2011, 6, e16033.	2.5	31
49	Bacterial death from treatment with fluoroquinolones and other lethal stressors. <i>Expert Review of Anti-Infective Therapy</i> , 2021, 19, 601-618.	4.4	30
50	gyrB-225, a mutation of DNA gyrase that compensates for topoisomerase I deficiency: investigation of its low activity and quinolone hypersensitivity. <i>Journal of Molecular Biology</i> , 2001, 309, 1219-1231.	4.2	29
51	A Toxin-Antitoxin Module in <i>Bacillus subtilis</i> Can Both Mitigate and Amplify Effects of Lethal Stress. <i>PLoS ONE</i> , 2011, 6, e23909.	2.5	29
52	Lethal synergy involving bicyclomycin: an approach for reviving old antibiotics. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 3227-3235.	3.0	29
53	Emergence of carbapenem resistance in <i>Bacteroides fragilis</i> in China. <i>International Journal of Antimicrobial Agents</i> , 2019, 53, 859-863.	2.5	29
54	Lethality of Quinolones against <i>Mycobacterium smegmatis</i> in the Presence or Absence of Chloramphenicol. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 2008-2014.	3.2	28

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55	Selection of rifampicin-resistant <i>Staphylococcus aureus</i> during tuberculosis therapy: concurrent bacterial eradication and acquisition of resistance. <i>Journal of Antimicrobial Chemotherapy</i> , 2005, 56, 1172-1175.	3.0	27
56	Ribosomal Elongation Factor 4 Promotes Cell Death Associated with Lethal Stress. <i>MBio</i> , 2014, 5, e01708.	4.1	27
57	Suppression of Reactive Oxygen Species Accumulation Accounts for Paradoxical Bacterial Survival at High Quinolone Concentration. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	26
58	Early stage detection of <i>Staphylococcus epidermidis</i> biofilm formation using MgZnO dual-gate TFT biosensor. <i>Biosensors and Bioelectronics</i> , 2020, 151, 111993.	10.1	25
59	Resistance Rather Than Virulence Selects for the Clonal Spread of Methicillin-Resistant <i>Staphylococcus aureus</i> : Implications for MRSA Transmission. <i>Microbial Drug Resistance</i> , 2000, 6, 239-244.	2.0	24
60	Lethal Action of Quinolones against a Temperature-Sensitive <i>dnaB</i> Replication Mutant of <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 362-364.	3.2	24
61	Fluoroquinolones as pneumococcal therapy: closing the barn door before the horse escapes. <i>Lancet Infectious Diseases</i> , The, 2001, 1, 145-146.	9.1	23
62	A broadly applicable, stress-mediated bacterial death pathway regulated by the phosphotransferase system (PTS) and the cAMP-Crp cascade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	21
63	Suppression of gyrase-mediated resistance by C7 aryl fluoroquinolones. <i>Nucleic Acids Research</i> , 2016, 44, 3304-3316.	14.5	19
64	Gain-of-Function Mutations in Acid Stress Response (<i>evgS</i>) Protect <i>Escherichia coli</i> from Killing by Gallium Nitrate, an Antimicrobial Candidate. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	3.2	15
65	Clarification of MPC and the mutant selection window concept. <i>Journal of Antimicrobial Chemotherapy</i> , 2003, 52, 731-731.	3.0	14
66	Induction of Mycobacterial Resistance to Quinolone Class Antimicrobials. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 3879-3887.	3.2	14
67	Bactericidal activity and target preference of a piperazinyl-cross-linked ciprofloxacin dimer with <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2006, 58, 1283-1286.	3.0	13
68	Spoligotyping of <i>Mycobacterium tuberculosis</i> Complex Isolates by Use of Ligation-Based Amplification and Melting Curve Analysis. <i>Journal of Clinical Microbiology</i> , 2016, 54, 2384-2387.	3.9	12
69	Minimising moxifloxacin resistance with tuberculosis. <i>Lancet Infectious Diseases</i> , The, 2008, 8, 273-275.	9.1	11
70	Involvement of Holliday Junction Resolvase in Fluoroquinolone-Mediated Killing of <i>Mycobacterium smegmatis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 1782-1785.	3.2	9
71	Fluoroquinolone Resistance: Mechanisms, Restrictive Dosing, and Anti-Mutant Screening Strategies for New Compounds. , 2012, , 485-514.		8
72	<i>Mycoplasma pneumoniae</i> infection is associated with subacute cough. <i>European Respiratory Journal</i> , 2014, 43, 1178-1181.	6.7	7

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73	Rapid and dynamic detection of antimicrobial treatment response using spectral amplitude modulation in MZO nanostructure-modified quartz crystal microbalance. <i>Journal of Microbiological Methods</i> , 2020, 178, 106071.	1.6	7
74	MicroPET imaging of bacterial infection with nitroreductase-specific responsive 18F-labelled nitrogen mustard analogues. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 2645-2654.	6.4	7
75	Is "dosing-to-cure"™ appropriate in the face of antimicrobial resistance?. <i>Reviews in Medical Microbiology</i> , 2004, 15, 73-80.	0.9	6
76	Fluoroquinolone-resistant <i>Streptococcus pneumoniae</i> . <i>Reviews in Medical Microbiology</i> , 2003, 14, 95-103.	0.9	5
77	<i>In Situ</i> Live Imaging of Gut Microbiota. <i>MSphere</i> , 2021, 6, e0054521.	2.9	5
78	Antimicrobial Studies with the <i>Pseudomonas aeruginosa</i> Two-Allele Library Require Caution. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 3826-3827.	3.2	4
79	Heteroresistance: A Harbinger of Future Resistance. , 2018, , 269-296.		2
80	Mutant Selection Window Hypothesis: A Framework for Anti-mutant Dosing of Antimicrobial Agents. , 2008, , 101-106.		2
81	An Anti-mutant Approach for Antimicrobial Use. , 2008, , 371-400.		2
82	Cytotoxic Hammerhead Ribozymes. <i>Oligonucleotides</i> , 1999, 9, 117-123.	4.3	0
83	Antimicrobial-Mediated Bacterial Suicide. , 2018, , 619-642.		0
84	Controlling Antibiotic Resistance: Strategies Based on the Mutant Selection Window. , 2004, , 295-331.		0