

Robert J Kerns

List of Publications by Year in descending order

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36
papers

2,740
citations

394421

19
h-index

345221

36
g-index

38
all docs

38
docs citations

38
times ranked

3582
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of Quinolone Action and Resistance. <i>Biochemistry</i> , 2014, 53, 1565-1574.	2.5	889
2	Quinolone-Mediated Bacterial Death. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 385-392.	3.2	450
3	Quinolones: Action and Resistance Updated. <i>Current Topics in Medicinal Chemistry</i> , 2009, 9, 981-998.	2.1	292
4	Crystal structure and stability of gyrase-fluoroquinolone cleaved complexes from <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1706-1713.	7.1	164
5	Topoisomerase IV-quinolone interactions are mediated through a water-metal ion bridge: mechanistic basis of quinolone resistance. <i>Nucleic Acids Research</i> , 2013, 41, 4628-4639.	14.5	130
6	Drug Interactions with <i>Bacillus anthracis</i> Topoisomerase IV: Biochemical Basis for Quinolone Action and Resistance. <i>Biochemistry</i> , 2012, 51, 370-381.	2.5	79
7	Structural features of piperazinyl-linked ciprofloxacin dimers required for activity against drug-resistant strains of <i>Staphylococcus aureus</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 2109-2112.	2.2	78
8	Fluoroquinolone interactions with <i>Mycobacterium tuberculosis</i> gyrase: Enhancing drug activity against wild-type and resistant gyrase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E839-46.	7.1	73
9	Overcoming Target-Mediated Quinolone Resistance in Topoisomerase IV by Introducing Metal-Ion-Independent Drug-Enzyme Interactions. <i>ACS Chemical Biology</i> , 2013, 8, 2660-2668.	3.4	59
10	Piperazinyl-linked fluoroquinolone dimers possessing potent antibacterial activity against drug-resistant strains of <i>Staphylococcus aureus</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 1745-1749.	2.2	51
11	A Novel Triphenylphosphonium Carrier to Target Mitochondria without Uncoupling Oxidative Phosphorylation. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 662-676.	6.4	50
12	A Mitochondrial-Targeted Coenzyme Q Analog Prevents Weight Gain and Ameliorates Hepatic Dysfunction in High-Fat Fed Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 351, 699-708.	2.5	39
13	Bypassing Fluoroquinolone Resistance with Quinazolinediones: Studies of Drug-Gyrase-DNA Complexes Having Implications for Drug Design. <i>ACS Chemical Biology</i> , 2014, 9, 2895-2904.	3.4	38
14	Role of the Water-Metal Ion Bridge in Mediating Interactions between Quinolones and <i>Escherichia coli</i> Topoisomerase IV. <i>Biochemistry</i> , 2014, 53, 5558-5567.	2.5	38
15	Lethal synergy involving bicyclomycin: an approach for reviving old antibiotics. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 3227-3235.	3.0	29
16	Effect of a mitochondrial-targeted coenzyme Q analog on pancreatic β -cell function and energetics in high fat fed obese mice. <i>Pharmacology Research and Perspectives</i> , 2018, 6, e00393.	2.4	26
17	<i>N</i> -Arylacyl- <i>O</i> -sulfonated aminoglycosides as novel inhibitors of human neutrophil elastase, cathepsin G and proteinase 3. <i>Glycobiology</i> , 2016, 26, 701-709.	2.5	25
18	Activity of Quinolone CP-115,955 Against Bacterial and Human Type II Topoisomerases Is Mediated by Different Interactions. <i>Biochemistry</i> , 2015, 54, 1278-1286.	2.5	22

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19	Metabolic effects of a mitochondrial-targeted coenzyme Q analog in high fat fed obese mice. <i>Pharmacology Research and Perspectives</i> , 2017, 5, e00301.	2.4	22
20	Suppression of gyrase-mediated resistance by C7 aryl fluoroquinolones. <i>Nucleic Acids Research</i> , 2016, 44, 3304-3316.	14.5	19
21	Effect of mitoquinone (Mito-Q) on neuropathic endpoints in an obese and type 2 diabetic rat model. <i>Free Radical Research</i> , 2020, 54, 311-318.	3.3	19
22	Small molecule SWELL1 complex induction improves glycemic control and nonalcoholic fatty liver disease in murine Type 2 diabetes. <i>Nature Communications</i> , 2022, 13, 784.	12.8	19
23	Design, synthesis, and evaluation of novel N-1 fluoroquinolone derivatives: Probing for binding contact with the active site tyrosine of gyrase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 1903-1910.	2.2	17
24	Interactions between Quinolones and <i>Bacillus anthracis</i> Gyrase and the Basis of Drug Resistance. <i>Biochemistry</i> , 2017, 56, 4191-4200.	2.5	16
25	Bacterial Type II Topoisomerases and Target-Mediated Drug Resistance. , 2018, , 507-529.		13
26	<i>Bacillus anthracis</i> GrlA ^{V96A} Topoisomerase IV, a Quinolone Resistance Mutation That Does Not Affect the Water-Metal Ion Bridge. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 7182-7187.	3.2	10
27	Susceptibility studies of piperazinyl cross-linked fluoroquinolone dimers against test strains of Gram-positive and Gram-negative bacteria. <i>Diagnostic Microbiology and Infectious Disease</i> , 2006, 54, 305-310.	1.8	9
28	Probing structural requirements for human topoisomerase I inhibition by a novel N1-Biphenyl fluoroquinolone. <i>European Journal of Medicinal Chemistry</i> , 2019, 172, 109-130.	5.5	9
29	Identification of an ethyl 5,6-dihydropyrazolo[1,5-c]quinazoline-1-carboxylate as a catalytic inhibitor of DNA gyrase. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115439.	3.0	8
30	Synthetic Methods To Incorporate β -Linked 2-Amino-2-Deoxy-D-Glucopyranoside and 2-Amino-2-Deoxy-D-Galactopyranoside Residues into Glycoconjugate Structures. <i>ACS Symposium Series</i> , 2012, , 235-263.	0.5	7
31	Suppression of human T cell activation by derivatives of glycerol monolaurate. <i>Scientific Reports</i> , 2021, 11, 8943.	3.3	7
32	Selective N-Sulfation of Glucosamine Derivatives using Phenyl Chlorosulfate in Non-Aqueous Solvent. <i>Synthetic Communications</i> , 1996, 26, 2671-2680.	2.1	6
33	Fluoroquinolones stimulate the DNA cleavage activity of topoisomerase IV by promoting the binding of Mg ²⁺ to the second metal binding site. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 569-575.	2.4	6
34	Synthetic Methods to Incorporate β -Linked 2-Amino-2-Deoxy-D-Glucopyranoside and 2-Amino-2-Deoxy-D-Galactopyranoside Residues into Glycoconjugate Structures. <i>ACS Symposium Series</i> , 2006, , 205-236.	0.5	5
35	The C7-aminomethylpyrrolidine group rescues the activity of a thio-fluoroquinolone. <i>Biochimie</i> , 2019, 160, 24-27.	2.6	5
36	Novel N-1 substituted fluoroquinolones inhibit human topoisomerase I activity and exhibit anti-proliferative activity. <i>Investigational New Drugs</i> , 2019, 37, 378-383.	2.6	5