Robert J Kerns

List of Publications by Year
in descending order

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	Small molecule SWELL1 complex induction improves glycemic control and nonalcoholic fatty liver disease in murine Type 2 diabetes. Nature Communications, 2022, 13, 784.	12.8	19
2	A Novel Triphenylphosphonium Carrier to Target Mitochondria without Uncoupling Oxidative Phosphorylation. Journal of Medicinal Chemistry, 2021, 64, 662-676.	6.4	50
3	Suppression of human T cell activation by derivatives of glycerol monolaurate. Scientific Reports, 2021, 11, 8943.	3.3	7
4	Effect of mitoquinone (Mito-Q) on neuropathic endpoints in an obese and type 2 diabetic rat model. Free Radical Research, 2020, 54, 311-318.	3.3	19
5	Identification of an ethyl 5,6-dihydropyrazolo[1,5-c]quinazoline-1-carboxylate as a catalytic inhibitor of DNA gyrase. Bioorganic and Medicinal Chemistry, 2020, 28, 115439.	3.0	8
6	Probing structural requirements for human topoisomerase I inhibition by a novel N1-Biphenyl fluoroquinolone. European Journal of Medicinal Chemistry, 2019, 172, 109-130.	5.5	9
7	The C7-aminomethylpyrrolidine group rescues the activity of a thio-fluoroquinolone. Biochimie, 2019, 160, 24-27.	2.6	5
8	Novel N-1 substituted fluoroquinolones inhibit human topoisomerase I activity and exhibit anti-proliferative activity. Investigational New Drugs, 2019, 37, 378-383.	2.6	5
9	Design, synthesis, and evaluation of novel N-1 fluoroquinolone derivatives: Probing for binding contact with the active site tyrosine of gyrase. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 1903-1910.	2.2	17
10	Bacterial Type II Topoisomerases and Target-Mediated Drug Resistance. , 2018, , 507-529.		13
11	Effect of a mitochondrialâ€targeted coenzyme Q analog on pancreatic Î²â€cell function and energetics in high fat fed obese mice. Pharmacology Research and Perspectives, 2018, 6, e00393.	2.4	26
12	Metabolic effects of a mitochondrial-targeted coenzyme Q analog in high fat fed obese mice. Pharmacology Research and Perspectives, 2017, 5, e00301.	2.4	22
13	Interactions between Quinolones and Bacillus anthracis Gyrase and the Basis of Drug Resistance. Biochemistry, 2017, 56, 4191-4200.	2.5	16
14	Suppression of gyrase-mediated resistance by C7 aryl fluoroquinolones. Nucleic Acids Research, 2016, 44, 3304-3316.	14.5	19
15	Crystal structure and stability of gyraseâ€“fluoroquinolone cleaved complexes from Mycobacterium tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1706-1713.	7.1	164
16	Fluoroquinolone interactions with Mycobacterium tuberculosis gyrase: Enhancing drug activity against wild-type and resistant gyrase. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E839-46.	7.1	73
17	N-ArylacylO-sulfonated aminoglycosides as novel inhibitors of human neutrophil elastase, cathepsin G and proteinase 3. Glycobiology, 2016, 26, 701-709.	2.5	25
18	Fluoroquinolones stimulate the DNA cleavage activity of topoisomerase IV by promoting the binding of Mg2+ to the second metal binding site. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 569-575.	2.4	6

#	Article	IF	Citations
19	Activity of Quinolone CP-115,955 Against Bacterial and Human Type II Topoisomerases Is Mediated by Different Interactions. Biochemistry, 2015, 54, 1278-1286.	2.5	22
20	Bacillus anthracis GrlA ^{V96A} Topoisomerase IV, a Quinolone Resistance Mutation That Does Not Affect the Water-Metal Ion Bridge. Antimicrobial Agents and Chemotherapy, 2014, 58, 7182-7187.	3.2	10
21	A Mitochondrial-Targeted Coenzyme Q Analog Prevents Weight Gain and Ameliorates Hepatic Dysfunction in High-Fatâ€"Fed Mice. Journal of Pharmacology and Experimental Therapeutics, 2014, 351, 699-708.	2.5	39
22	Bypassing Fluoroquinolone Resistance with Quinazolinediones: Studies of Drugâ€"Gyraseâ€"DNA Complexes Having Implications for Drug Design. ACS Chemical Biology, 2014, 9, 2895-2904.	3.4	38
23	Mechanism of Quinolone Action and Resistance. Biochemistry, 2014, 53, 1565-1574.	2.5	889
24	Role of the Waterâ€"Metal Ion Bridge in Mediating Interactions between Quinolones and Escherichia coli Topoisomerase IV. Biochemistry, 2014, 53, 5558-5567.	2.5	38
25	Lethal synergy involving bicyclomycin: an approach for reviving old antibiotics. Journal of Antimicrobial Chemotherapy, 2014, 69, 3227-3235.	3.0	29
26	Overcoming Target-Mediated Quinolone Resistance in Topoisomerase IV by Introducing Metal-Ion-Independent Drugâ€"Enzyme Interactions. ACS Chemical Biology, 2013, 8, 2660-2668.	3.4	59
27	Topoisomerase IV-quinolone interactions are mediated through a water-metal ion bridge: mechanistic basis of quinolone resistance. Nucleic Acids Research, 2013, 41, 4628-4639.	14.5	130
28	Drug Interactions with Bacillus anthracis Topoisomerase IV: Biochemical Basis for Quinolone Action and Resistance. Biochemistry, 2012, 51, 370-381.	2.5	79
29	Synthetic Methods To Incorporate Î±-Linked 2-Amino-2-Deoxy-D-Glucopyranoside and 2-Amino-2-Deoxy-D-Galactopyranoside Residues into Glycoconjugate Structures. ACS Symposium Series, 2012, , 235-263.	0.5	7
30	Quinolones: Action and Resistance Updated. Current Topics in Medicinal Chemistry, 2009, 9, 981-998.	2.1	292
31	Quinolone-Mediated Bacterial Death. Antimicrobial Agents and Chemotherapy, 2008, 52, 385-392.	3.2	450
32	Susceptibility studies of piperazinylâ€"cross-linked fluoroquinolone dimers against test strains of Gram-positive and Gram-negative bacteria. Diagnostic Microbiology and Infectious Disease, 2006, 54, 305-310.	1.8	9
33	Synthetic Methods to Incorporate Î±-Linked 2-Amino-2-Deoxy-D-Glucopyranoside and 2-Amino-2-Deoxy-D-Galactopyranoside Residues into Glycoconjugate Structures. ACS Symposium Series, 2006, , 205-236.	0.5	5
34	Structural features of piperazinyl-linked ciprofloxacin dimers required for activity against drug-resistant strains of Staphylococcus aureus. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2109-2112.	2.2	78
35	Piperazinyl-linked fluoroquinolone dimers possessing potent antibacterial activity against drug-resistant strains of Staphylococcus aureus. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 1745-1749.	2.2	51
36	SelectiveN-Sulfation of Glucosamine Derivatives using Phenyl Chlorosulfate in Non-Aqueous Solvent. Synthetic Communications, 1996, 26, 2671-2680.	2.1	6