

Lynn Zechiedrich

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,430
citations

218677

26
h-index

206112

48
g-index

60
all docs

60
docs citations

60
times ranked

3141
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Non-Viral DNA Vectors for Gene Therapy. <i>Genes</i> , 2017, 8, 65.	2.4	279
2	Expression of Multidrug Efflux Pump Genes <i>acrAB-tolC</i> , <i>mdfA</i> , and <i>norE</i> in <i>Escherichia coli</i> Clinical Isolates as a Function of Fluoroquinolone and Multidrug Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 921-924.	3.2	165
3	The why and how of DNA unlinking. <i>Nucleic Acids Research</i> , 2009, 37, 661-671.	14.5	164
4	Mechanisms Accounting for Fluoroquinolone Resistance in <i>Escherichia coli</i> Clinical Isolates. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 235-241.	3.2	141
5	Quorum sensing and multidrug transporters in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2386-2391.	7.1	127
6	Structural diversity of supercoiled DNA. <i>Nature Communications</i> , 2015, 6, 8440.	12.8	122
7	DNA Disentangling by Type-2 Topoisomerases. <i>Journal of Molecular Biology</i> , 2004, 340, 933-939.	4.2	102
8	Topoisomerase IV, alone, unknots DNA in <i>E. coli</i> . <i>Genes and Development</i> , 2001, 15, 748-761.	5.9	92
9	Bullied no more: when and how DNA shoves proteins around. <i>Quarterly Reviews of Biophysics</i> , 2012, 45, 257-299.	5.7	75
10	Relationships among Ciprofloxacin, Gatifloxacin, Levofloxacin, and Norfloxacin MICs for Fluoroquinolone-Resistant <i>Escherichia coli</i> Clinical Isolates. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 229-234.	3.2	69
11	Temporal Interplay between Efflux Pumps and Target Mutations in Development of Antibiotic Resistance in <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 1680-1685.	3.2	68
12	In the absence of writhe, DNA relieves torsional stress with localized, sequence-dependent structural failure to preserve B-form. <i>Nucleic Acids Research</i> , 2009, 37, 5568-5577.	14.5	61
13	Contributions of the Combined Effects of Topoisomerase Mutations toward Fluoroquinolone Resistance in <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 4205-4208.	3.2	60
14	Increased fluoroquinolone resistance with time in <i>Escherichia coli</i> from >17,000 patients at a large county hospital as a function of culture site, age, sex, and location. <i>BMC Infectious Diseases</i> , 2008, 8, 4.	2.9	58
15	Supercoiled Minivector DNA resists shear forces associated with gene therapy delivery. <i>Gene Therapy</i> , 2012, 19, 94-100.	4.5	57
16	Exploring writhe in supercoiled minicircle DNA. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S145-S159.	1.8	56
17	Topological Information Embodied in Local Juxtaposition Geometry Provides a Statistical Mechanical Basis for Unknotting by Type-2 DNA Topoisomerases. <i>Journal of Molecular Biology</i> , 2006, 361, 268-285.	4.2	56
18	A role for topoisomerase III in a recombination pathway alternative to RuvABC. <i>Molecular Microbiology</i> , 2005, 58, 80-101.	2.5	55

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19	Hin-mediated DNA knotting and recombining promote replicon dysfunction and mutation. <i>BMC Molecular Biology</i> , 2007, 8, 44.	3.0	55
20	Effects of Circular DNA Length on Transfection Efficiency by Electroporation into HeLa Cells. <i>PLoS ONE</i> , 2016, 11, e0167537.	2.5	53
21	Toward Repurposing Ciprofloxacin as an Antibiotic against Drug-Resistant <i>Acinetobacter baumannii</i> , <i>Escherichia coli</i> , and <i>Klebsiella pneumoniae</i> . <i>PLoS ONE</i> , 2013, 8, e69646.	2.5	51
22	Transfection of shRNA-encoding Minivector DNA of a few hundred base pairs to regulate gene expression in lymphoma cells. <i>Gene Therapy</i> , 2011, 18, 220-224.	4.5	49
23	TopA, the <i>Sulfolobus solfataricus</i> topoisomerase III, is a decatenase. <i>Nucleic Acids Research</i> , 2018, 46, 861-872.	14.5	39
24	Inferring Global Topology from Local Juxtaposition Geometry: Interlinking Polymer Rings and Ramifications for Topoisomerase Action. <i>Biophysical Journal</i> , 2006, 90, 2344-2355.	0.5	35
25	Wicked: The untold story of ciprofloxacin. <i>PLoS Pathogens</i> , 2018, 14, e1006805.	4.7	33
26	A Mutation in <i>Escherichia coli</i> DNA Gyrase Conferring Quinolone Resistance Results in Sensitivity to Drugs Targeting Eukaryotic Topoisomerase II. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 4495-4504.	3.2	32
27	Influence of DNA sequence on the structure of minicircles under torsional stress. <i>Nucleic Acids Research</i> , 2017, 45, 7633-7642.	14.5	32
28	Action at Hooked or Twisted DNA Juxtapositions Rationalizes Unlinking Preference of Type-2 Topoisomerases. <i>Journal of Molecular Biology</i> , 2010, 400, 963-982.	4.2	27
29	Emergence of <i>Klebsiella pneumoniae</i> ST273 Carrying bla _{NDM-7} and ST656 Carrying bla _{NDM-1} in Manila, Philippines. <i>Microbial Drug Resistance</i> , 2016, 22, 585-588.	2.0	26
30	Supercoiling and looping promote DNA base accessibility and coordination among distant sites. <i>Nature Communications</i> , 2021, 12, 5683.	12.8	24
31	Combining Random Gene Fission and Rational Gene Fusion To Discover Near-Infrared Fluorescent Protein Fragments That Report on Protein-Protein Interactions. <i>ACS Synthetic Biology</i> , 2015, 4, 615-624.	3.8	23
32	Prevalence of hypervirulent <i>Klebsiella pneumoniae</i> -associated genes <i>rmpA</i> and <i>magA</i> in two tertiary hospitals in Houston, TX, USA. <i>Journal of Medical Microbiology</i> , 2016, 65, 1047-1048.	1.8	21
33	Electrostatics of DNA-DNA juxtapositions: consequences for type II topoisomerase function. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S173-S185.	1.8	18
34	A prospective surveillance study on the kinetics of the humoral immune response to the respiratory syncytial virus fusion protein in adults in Houston, Texas. <i>Vaccine</i> , 2021, 39, 1248-1256.	3.8	16
35	Local site preference rationalizes disentangling by DNA topoisomerases. <i>Physical Review E</i> , 2010, 81, 031902.	2.1	14
36	Novel Conserved Genotypes Correspond to Antibiotic Resistance Phenotypes of <i>E. coli</i> Clinical Isolates. <i>PLoS ONE</i> , 2013, 8, e65961.	2.5	10

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37	Differences Between Positively and Negatively Supercoiled DNA that Topoisomerases May Distinguish. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2009, , 73-121.	0.5	9
38	Sugar and iron: Toward understanding the antibacterial effect of ciclopirox in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2019, 14, e0210547.	2.5	7
39	Improving therapeutic potential of non-viral minimized DNA vectors. <i>Cell & Gene Therapy Insights</i> , 2020, 6, 1489-1505.	0.1	7
40	Assessing Sensitivity to Antibacterial Topoisomerase II Inhibitors. <i>Current Protocols in Pharmacology</i> , 2007, 39, Unit3.13.	4.0	5
41	Topoisomerase IB-DNA Interactions: X Marks the Spot. <i>Structure</i> , 2010, 18, 661-663.	3.3	4
42	<i>Escherichia coli</i> DNA ligase B may mitigate damage from oxidative stress. <i>PLoS ONE</i> , 2017, 12, e0180800.	2.5	4
43	Repurposed Transcriptomic Data Reveal Small Viral RNA Produced by Influenza Virus during Infection in Mice. <i>PLoS ONE</i> , 2016, 11, e0165729.	2.5	4
44	Adult Memory T Cell Responses to the Respiratory Syncytial Virus Fusion Protein During a Single RSV Season (2018â€“2019). <i>Frontiers in Immunology</i> , 2022, 13, 823652.	4.8	4
45	Antibody responses of healthy adults to the p27 peptide of respiratory syncytial virus fusion protein. <i>Vaccine</i> , 2022, 40, 536-543.	3.8	3
46	Importance of disentanglement and entanglement during DNA replication and segregation. <i>Physics of Life Reviews</i> , 2016, 18, 160-164.	2.8	2
47	Biophysics Meets Gene Therapy: How Exploring Supercoiling-Dependent Structural Changes in DNA Led to the Development of Minivector DNA. <i>Technology and Innovation</i> , 2019, 20, 427-439.	0.2	2
48	Editorial Comment to Genome-wide transcriptome analysis of fluoroquinolone resistance in clinical isolates of <i>Escherichia coli</i> . <i>International Journal of Urology</i> , 2012, 19, 368-369.	1.0	0
49	Comparing a Clinical Decision Tree vs. Standard of Care for Predicting ESBL+ Bacteremia in a VA Population. <i>Open Forum Infectious Diseases</i> , 2017, 4, S261-S261.	0.9	0
50	Discordant Ertapenem/Imipenem Susceptibilities in <i>Enterobacter</i> Bacteremia: Frequency and Outcomes. <i>Open Forum Infectious Diseases</i> , 2017, 4, S151-S152.	0.9	0
51	1822. Veterans Are Special: Clinical Decision Tree Misses ESBL Status in Bacteremic Veterans. <i>Open Forum Infectious Diseases</i> , 2018, 5, S518-S518.	0.9	0