Lynn Zechiedrich

List of Publications by Year
in descending order

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	Antibody responses of healthy adults to the p27 peptide of respiratory syncytial virus fusion protein. Vaccine, 2022, 40, 536-543.	3.8	3
2	Adult Memory T Cell Responses to the Respiratory Syncytial Virus Fusion Protein During a Single RSV Season (2018â€“2019). Frontiers in Immunology, 2022, 13, 823652.	4.8	4
3	A prospective surveillance study on the kinetics of the humoral immune response to the respiratory syncytial virus fusion protein in adults in Houston, Texas. Vaccine, 2021, 39, 1248-1256.	3.8	16
4	Supercoiling and looping promote DNA base accessibility and coordination among distant sites. Nature Communications, 2021, 12, 5683.	12.8	24
5	Improving therapeutic potential of non-viral minimized DNA vectors. Cell & Gene Therapy Insights, 2020, 6, 1489-1505.	0.1	7
6	Biophysics Meets Gene Therapy: How Exploring Supercoiling-Dependent Structural Changes in DNA Led to the Development of Minivector DNA. Technology and Innovation, 2019, 20, 427-439.	0.2	2
7	Sugar and iron: Toward understanding the antibacterial effect of ciclopirox in Escherichia coli. PLoS ONE, 2019, 14, e0210547.	2.5	7
8	TopA, the Sulfolobus solfataricus topoisomerase III, is a decatenase. Nucleic Acids Research, 2018, 46, 861-872.	14.5	39
9	1822. Veterans Are Special: Clinical Decision Tree Misses ESBL Status in Bacteremic Veterans. Open Forum Infectious Diseases, 2018, 5, S518-S518.	0.9	0
10	Wicked: The untold story of ciprofloxacin. PLoS Pathogens, 2018, 14, e1006805.	4.7	33
11	Influence of DNA sequence on the structure of minicircles under torsional stress. Nucleic Acids Research, 2017, 45, 7633-7642.	14.5	32
12	Comparing a Clinical Decision Tree vs. Standard of Care for Predicting ESBL+ Bacteremia in a VA Population. Open Forum Infectious Diseases, 2017, 4, S261-S261.	0.9	0
13	Advances in Non-Viral DNA Vectors for Gene Therapy. Genes, 2017, 8, 65.	2.4	279
14	Escherichia coli DNA ligase B may mitigate damage from oxidative stress. PLoS ONE, 2017, 12, e0180800.	2.5	4
15	Discordant Ertapenem/Imipenem Susceptibilities in Enterobacter Bacteremia: Frequency and Outcomes. Open Forum Infectious Diseases, 2017, 4, S151-S152.	0.9	0
16	Prevalence of hypervirulent Klebsiella pneumoniae-associated genes rmpA and magA in two tertiary hospitals in Houston, TX, USA. Journal of Medical Microbiology, 2016, 65, 1047-1048.	1.8	21
17	Emergence of Klebsiella pneumoniae ST273 Carrying blaNDM-7 and ST656 Carrying blaNDM-1 in Manila, Philippines. Microbial Drug Resistance, 2016, 22, 585-588.	2.0	26
18	Importance of disentanglement and entanglement during DNA replication and segregation. Physics of Life Reviews, 2016, 18, 160-164.	2.8	2

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19	Repurposed Transcriptomic Data Reveal Small Viral RNA Produced by Influenza Virus during Infection in Mice. PLoS ONE, 2016, 11, e0165729.	2.5	4
20	Effects of Circular DNA Length on Transfection Efficiency by Electroporation into HeLa Cells. PLoS ONE, 2016, 11, e0167537.	2.5	53
21	Structural diversity of supercoiled DNA. Nature Communications, 2015, 6, 8440.	12.8	122
22	Combining Random Gene Fission and Rational Gene Fusion To Discover Near-Infrared Fluorescent Protein Fragments That Report on Proteinâ€“Protein Interactions. ACS Synthetic Biology, 2015, 4, 615-624.	3.8	23
23	Novel Conserved Genotypes Correspond to Antibiotic Resistance Phenotypes of E. coli Clinical Isolates. PLoS ONE, 2013, 8, e65961.	2.5	10
24	Toward Repurposing Ciclopirox as an Antibiotic against Drug-Resistant Acinetobacter baumannii, Escherichia coli, and Klebsiella pneumoniae. PLoS ONE, 2013, 8, e69646.	2.5	51
25	Temporal Interplay between Efflux Pumps and Target Mutations in Development of Antibiotic Resistance in Escherichia coli. Antimicrobial Agents and Chemotherapy, 2012, 56, 1680-1685.	3.2	68
26	Supercoiled Minivector DNA resists shear forces associated with gene therapy delivery. Gene Therapy, 2012, 19, 94-100.	4.5	57
27	Bullied no more: when and how DNA shoves proteins around. Quarterly Reviews of Biophysics, 2012, 45, 257-299.	5.7	75
28	Editorial Comment to Genomeâ€wide transcriptome analysis of fluoroquinolone resistance in clinical isolates of Escherichia coli. International Journal of Urology, 2012, 19, 368-369.	1.0	0
29	Transfection of shRNA-encoding Minivector DNA of a few hundred base pairs to regulate gene expression in lymphoma cells. Gene Therapy, 2011, 18, 220-224.	4.5	49
30	Expression of Multidrug Efflux Pump Genes acrAB-tolC , mdfA , and norE in Escherichia coli Clinical Isolates as a Function of Fluoroquinolone and Multidrug Resistance. Antimicrobial Agents and Chemotherapy, 2011, 55, 921-924.	3.2	165
31	Topoisomerase IB-DNA Interactions: X Marks the Spot. Structure, 2010, 18, 661-663.	3.3	4
32	Local site preference rationalizes disentangling by DNA topoisomerases. Physical Review E, 2010, 81, 031902.	2.1	14
33	Action at Hooked or Twistedâ€“Hooked DNA Juxtapositions Rationalizes Unlinking Preference of Type-2 Topoisomerases. Journal of Molecular Biology, 2010, 400, 963-982.	4.2	27
34	The why and how of DNA unlinking. Nucleic Acids Research, 2009, 37, 661-671.	14.5	164
35	Mechanisms Accounting for Fluoroquinolone Resistance in Escherichia coli Clinical Isolates. Antimicrobial Agents and Chemotherapy, 2009, 53, 235-241.	3.2	141
36	Relationships among Ciprofloxacin, Gatifloxacin, Levofloxacin, and Norfloxacin MICs for Fluoroquinolone-Resistant Escherichia coli Clinical Isolates. Antimicrobial Agents and Chemotherapy, 2009, 53, 229-234.	3.2	69

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37	In the absence of writhe, DNA relieves torsional stress with localized, sequence-dependent structural failure to preserve B-form. Nucleic Acids Research, 2009, 37, 5568-5577.	14.5	61
38	Differences Between Positively and Negatively Supercoiled DNA that Topoisomerases May Distinguish. The IMA Volumes in Mathematics and Its Applications, 2009, , 73-121.	0.5	9
39	Increased fluoroquinolone resistance with time in Escherichia coli from >17,000 patients at a large county hospital as a function of culture site, age, sex, and location. BMC Infectious Diseases, 2008, 8, 4.	2.9	58
40	Contributions of the Combined Effects of Topoisomerase Mutations toward Fluoroquinolone Resistance in Escherichia coli. Antimicrobial Agents and Chemotherapy, 2007, 51, 4205-4208.	3.2	60
41	Assessing Sensitivity to Antibacterial Topoisomerase II Inhibitors. Current Protocols in Pharmacology, 2007, 39, Unit3.13.	4.0	5
42	Hin-mediated DNA knotting and recombining promote replicon dysfunction and mutation. BMC Molecular Biology, 2007, 8, 44.	3.0	55
43	Inferring Global Topology from Local Juxtaposition Geometry: Interlinking Polymer Rings and Ramifications for Topoisomerase Action. Biophysical Journal, 2006, 90, 2344-2355.	0.5	35
44	Exploring writhe in supercoiled minicircle DNA. Journal of Physics Condensed Matter, 2006, 18, S145-S159.	1.8	56
45	Topological Information Embodied in Local Juxtaposition Geometry Provides a Statistical Mechanical Basis for Unknotting by Type-2 DNA Topoisomerases. Journal of Molecular Biology, 2006, 361, 268-285.	4.2	56
46	Quorum sensing and multidrug transporters inEscherichiacoli. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2386-2391.	7.1	127
47	Electrostatics of DNAâ€“DNA juxtapositions: consequences for type II topoisomerase function. Journal of Physics Condensed Matter, 2006, 18, S173-S185.	1.8	18
48	A role for topoisomerase III in a recombination pathway alternative to RuvABC. Molecular Microbiology, 2005, 58, 80-101.	2.5	55
49	A Mutation in Escherichia coli DNA Gyrase Conferring Quinolone Resistance Results in Sensitivity to Drugs Targeting Eukaryotic Topoisomerase II. Antimicrobial Agents and Chemotherapy, 2004, 48, 4495-4504.	3.2	32
50	DNA Disentangling by Type-2 Topoisomerases. Journal of Molecular Biology, 2004, 340, 933-939.	4.2	102
51	Topoisomerase IV, alone, unknots DNA in E. coli. Genes and Development, 2001, 15, 748-761.	5.9	92