

Jissy A Kuriappan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30 papers	2,262 citations	21 h-index	30 g-index
30 ext. papers	2,468 ext. citations	5.6 avg, IF	5.07 L-index

#	Paper	IF	Citations
30	Topoisomerase poisons: harnessing the dark side of enzyme mechanism. <i>Journal of Biological Chemistry</i> , 1995 , 270, 21429-32	5.4	411
29	The DNA cleavage reaction of topoisomerase II: wolf in sheep's clothing. <i>Nucleic Acids Research</i> , 2009 , 37, 738-48	20.1	323
28	DNA topoisomerase II, genotoxicity, and cancer. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2007 , 623, 83-97	3.3	280
27	Effect of antineoplastic agents on the DNA cleavage/religation reaction of eukaryotic topoisomerase II: inhibition of DNA religation by etoposide. <i>Biochemistry</i> , 1989 , 28, 6157-60	3.2	218
26	Topoisomerase II and leukemia. <i>Annals of the New York Academy of Sciences</i> , 2014 , 1310, 98-110	6.5	129
25	Topoisomerase II and the etiology of chromosomal translocations. <i>DNA Repair</i> , 2006 , 5, 1093-108	4.3	116
24	A two-drug model for etoposide action against human topoisomerase IIalpha. <i>Journal of Biological Chemistry</i> , 2003 , 278, 7406-12	5.4	112
23	DNA Topology and Topoisomerases: Teaching a "Knotty" Subject. <i>Biochemistry and Molecular Biology Education</i> , 2008 , 37, 2-10	1.3	81
22	Topoisomerase II - drug interaction domains: identification of substituents on etoposide that interact with the enzyme. <i>Biochemistry</i> , 2007 , 46, 8217-25	3.2	51
21	Interactions between the etoposide derivative F14512 and human type II topoisomerases: implications for the C4 spermine moiety in promoting enzyme-mediated DNA cleavage. <i>Biochemistry</i> , 2011 , 50, 3240-9	3.2	48
20	The efficacy of topoisomerase II-targeted anticancer agents reflects the persistence of drug-induced cleavage complexes in cells. <i>Biochemistry</i> , 2008 , 47, 11900-8	3.2	46
19	The use of divalent metal ions by type II topoisomerases. <i>Metallomics</i> , 2010 , 2, 450-9	4.5	43
18	A mutation in yeast TOP2 homologous to a quinolone-resistant mutation in bacteria. Mutation of the amino acid homologous to Ser83 of Escherichia coli gyrA alters sensitivity to eukaryotic topoisomerase inhibitors. <i>Journal of Biological Chemistry</i> , 1995 , 270, 20359-64	5.4	43
17	Parametrization and Benchmark of Long-Range Corrected DFTB2 for Organic Molecules. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 115-125	6.4	41
16	Human topoisomerase IIalpha uses a two-metal-ion mechanism for DNA cleavage. <i>Nucleic Acids Research</i> , 2008 , 36, 4883-93	20.1	41
15	Quinolones share a common interaction domain on topoisomerase II with other DNA cleavage-enhancing antineoplastic drugs. <i>Biochemistry</i> , 1997 , 36, 2919-24	3.2	39
14	Substituents on etoposide that interact with human topoisomerase IIalpha in the binary enzyme-drug complex: contributions to etoposide binding and activity. <i>Biochemistry</i> , 2008 , 47, 4501-9	3.2	38

13	Etoposide quinone is a covalent poison of human topoisomerase II <i>Biochemistry</i> , 2014 , 53, 3229-36	3.2	35
12	Sequence-Dependent Duplex Stabilization upon Formation of a Metal-Mediated Base Pair. <i>Chemistry - A European Journal</i> , 2016 , 22, 295-301	4.8	26
11	Inhibition of human DNA topoisomerase II by two novel ellipticine derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 1809-12	2.9	25
10	Molecular pathogenesis of secondary acute promyelocytic leukemia. <i>Mediterranean Journal of Hematology and Infectious Diseases</i> , 2011 , 3, e2011045	3.2	23
9	Catalytic core of human topoisomerase II insights into enzyme-DNA interactions and drug mechanism. <i>Biochemistry</i> , 2014 , 53, 6595-602	3.2	21
8	Novel xanthone-polyamine conjugates as catalytic inhibitors of human topoisomerase II <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 4687-4693	2.9	16
7	Toward more efficient density-based adaptive QM/MM methods. <i>International Journal of Quantum Chemistry</i> , 2017 , 117, e25336	2.1	14
6	Coupling the core of the anticancer drug etoposide to an oligonucleotide induces topoisomerase II-mediated cleavage at specific DNA sequences. <i>Nucleic Acids Research</i> , 2018 , 46, 2218-2233	20.1	13
5	Polyamine-containing etoposide derivatives as poisons of human type II topoisomerases: Differential effects on topoisomerase II and II <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 2961-2968	2.9	8
4	Design, Synthesis, Dynamic Docking, Biochemical Characterization, and Pharmacokinetics Studies of Novel Topoisomerase II Poisons with Promising Antiproliferative Activity. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 3508-3521	8.3	7
3	Smoothed Potential MD Simulations for Dissociation Kinetics of Etoposide To Unravel Isoform Specificity in Targeting Human Topoisomerase II. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 4007-4017	6.1	6
2	Effects of Secondary Metabolites from the Fungus <i>Septofusidium berolinense</i> on DNA Cleavage Mediated by Human Topoisomerase II <i>Chemical Research in Toxicology</i> , 2016 , 29, 415-20	4	4
1	Novel, Potent, and Druglike Tetrahydroquinazoline Inhibitor That Is Highly Selective for Human Topoisomerase II over <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 12873-12886	8.3	4