Nei-Li Chan

List of Publications by Year
in descending order

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44	2,422	304602	233338
papers	citations	22 h-index	45 g-index

73	73	73	3650
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural Basis of Type II Topoisomerase Inhibition by the Anticancer Drug Etoposide. Science, 2011, 333, 459-462.	6.0	414
2	Topoisomerases as anticancer targets. Biochemical Journal, 2018, 475, 373-398.	1.7	303
3	New Mechanistic and Functional Insights into DNA Topoisomerases. Annual Review of Biochemistry, 2013, 82, 139-170.	5.0	296
4	The many blades of the Î²-propeller proteins: conserved but versatile. Trends in Biochemical Sciences, 2011, 36, 553-561.	3.7	158
5	On the structural basis and design guidelines for type II topoisomerase-targeting anticancer drugs. Nucleic Acids Research, 2013, 41, 10630-10640.	6.5	139
6	Crystal Structure of the S-Nitroso Form of Liganded Human Hemoglobin,. Biochemistry, 1998, 37, 16459-16464.	1.2	112
7	Crystallographic Analysis of the Interaction of Nitric Oxide with Quaternary-T Human Hemoglobinâ€,â€¡. Biochemistry, 2004, 43, 118-132.	1.2	88
8	Producing irreversible topoisomerase II-mediated DNA breaks by site-specific Pt(II)-methionine coordination chemistry. Nucleic Acids Research, 2017, 45, 10861-10871.	6.5	68
9	Structural basis of antizyme-mediated regulation of polyamine homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11229-11234.	3.3	62
10	Structural basis of the mercury(II)-mediated conformational switching of the dual-function transcriptional regulator MerR. Nucleic Acids Research, 2015, 43, 7612-7623.	6.5	61
11	Crystal Structure of the Human Prostacyclin Synthase. Journal of Molecular Biology, 2006, 364, 266-274.	2.0	55
12	XpsE oligomerization triggered by ATP binding, not hydrolysis, leads to its association with XpsL. EMBO Journal, 2006, 25, 1426-1435.	3.5	48
13	SMYD3-Mediated H2A.Z.1 Methylation Promotes Cell Cycle and Cancer Proliferation. Cancer Research, 2016, 76, 6043-6053.	0.4	48
14	Structural insights into the gating of DNA passage by the topoisomerase II DNA-gate. Nature Communications, 2018, 9, 3085.	5.8	47
15	Structure of the Topoisomerase IV C-terminal Domain. Journal of Biological Chemistry, 2004, 279, 55587-55593.	1.6	46
16	Structures of Prostacyclin Synthase and Its Complexes with Substrate Analog and Inhibitor Reveal a Ligand-specific Heme Conformation Change. Journal of Biological Chemistry, 2008, 283, 2917-2926.	1.6	44
17	Epoxidation Catalyzed by the Nonheme Iron(II)- and 2-Oxoglutarate-Dependent Oxygenase, AsqJ: Mechanistic Elucidation of Oxygen Atom Transfer by a Ferryl Intermediate. Journal of the American Chemical Society, 2020, 142, 6268-6284.	6.6	44
18	Insights into the Desaturation of Cyclopeptin and its C3 Epimer Catalyzed by a nonâ€Heme Iron Enzyme: Structural Characterization and Mechanism Elucidation. Angewandte Chemie - International Edition, 2018, 57, 1831-1835.	7.2	43

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19	Cys-93-Î²Î²-Succinimidophenyl Polyethylene Glycol 2000 Hemoglobin A. Journal of Biological Chemistry, 2000, 275, 5527-5534.	1.6	37
20	Structure and Function of the XpsE N-Terminal Domain, an Essential Component of the Xanthomonas campestris Type II Secretion System. Journal of Biological Chemistry, 2005, 280, 42356-42363.	1.6	33
21	Asymmetrical Synthesis of l-Homophenylalanine Using Engineered Escherichia coli Aspartate Aminotransferase. Biotechnology Progress, 2008, 21, 411-415.	1.3	30
22	Twisting of the DNA-binding surface by a Î²-strand-bearing proline modulates DNA gyrase activity. Nucleic Acids Research, 2010, 38, 4173-4181.	6.5	26
23	New insights into DNA-binding by type IIA topoisomerases. Current Opinion in Structural Biology, 2013, 23, 125-133.	2.6	24
24	Hypoxia-induced Slug SUMOylation enhances lung cancer metastasis. Journal of Experimental and Clinical Cancer Research, 2019, 38, 5.	3.5	21
25	Defining polyubiquitin chain topology. , 2001, 8, 650-652.		20
26	Structural characteristics of the nonallosteric human cytosolic malic enzyme. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1773-1783.	1.1	19
27	Chemical Inhibition of Human Thymidylate Kinase and Structural Insights into the Phosphate Binding Loop and Ligand-Induced Degradation. Journal of Medicinal Chemistry, 2016, 59, 9906-9918.	2.9	15
28	The crystal structure of XC1258 from Xanthomonas campestris: A putative procaryotic Nit protein with an arsenic adduct in the active site. Proteins: Structure, Function and Bioinformatics, 2007, 69, 665-671.	1.5	12
29	Anthracenedioneâ€“methionine conjugates are novel topoisomerase II-targeting anticancer agents with favorable drug resistance profiles. Biochemical Pharmacology, 2012, 83, 1208-1216.	2.0	12
30	Investigations into the binding of jadomycin DS to human topoisomerase IIÎ² by WaterLOGSY NMR spectroscopy. Organic and Biomolecular Chemistry, 2015, 13, 10324-10327.	1.5	12
31	DNA Topoisomerase II Is Involved in Regulation of Cyst Wall Protein Genes and Differentiation in Giardia lamblia. PLoS Neglected Tropical Diseases, 2013, 7, e2218.	1.3	11
32	Mechanistic analysis of carbonâ€“carbon bond formation by deoxypodophyllotoxin synthase. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	11
33	Structure of Human Phosphodiesterase 5A1 Complexed with Avanafil Reveals Molecular Basis of Isoform Selectivity and Guidelines for Targeting Î±-Helix Backbone Oxygen by Halogen Bonding. Journal of Medicinal Chemistry, 2020, 63, 8485-8494.	2.9	8
34	Harnessing the Substrate Promiscuity of Dioxygenase AsqJ and Developing Efficient Chemoenzymatic Synthesis for Quinolones. ACS Catalysis, 2021, 11, 7186-7192.	5.5	8
35	Crystal structure of the conserved hypothetical cytosolic protein Xcc0516 fromXanthomonas campestrisreveals a novel quaternary structure assembled by five four-helix bundles. Proteins: Structure, Function and Bioinformatics, 2006, 65, 783-786.	1.5	7
36	In trans interaction of hepatitis C virus helicase domains mediates protease activity critical for internal NS3 cleavage and cell transformation. FEBS Letters, 2010, 584, 482-486.	1.3	6

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37	Structural Analysis of Glycine Sarcosine N-methyltransferase from Methanohalophilus portucalensis Reveals Mechanistic Insights into the Regulation of Methyltransferase Activity. Scientific Reports, 2016, 6, 38071.	1.6	6
38	Functional characterization of the meiosis-specific DNA double-strand break inducing factor SPO-11 from C. elegans. Scientific Reports, 2017, 7, 2370.	1.6	6
39	Crystallization and preliminary X-ray crystallographic analysis of the C-terminal domain of ParC protein fromBacillus stearothermophilus. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 564-566.	2.5	5
40	Mutation of a key residue in the type II secretion system ATPase uncouples ATP hydrolysis from protein translocation. Molecular Microbiology, 2007, 65, 401-412.	1.2	4
41	Insights into the Desaturation of Cyclopeptin and its C3 Epimer Catalyzed by a nonâ€Heme Iron Enzyme: Structural Characterization and Mechanism Elucidation. Angewandte Chemie, 2018, 130, 1849-1853.	1.6	3
42	Crystallization and preliminary X-ray crystallographic analysis of the N-terminal domain of XpsE protein fromXanthomonas campestris, an essential component of the type II protein-secretion machinery. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 129-131.	2.5	1
43	Expression, purification, crystallization and preliminary X-ray analysis of ribitol-5-phosphate cytidylyltransferase fromBacillus subtilis. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1195-1197.	0.7	1
44	Expression, purification, crystallization and preliminary X-ray analysis of the RecQ helicase catalytic core fromDeinococcus radiodurans. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1234-1236.	0.7	1