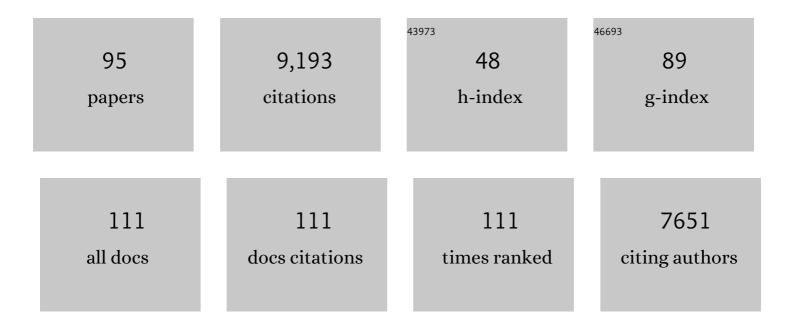
## James M Berger

List of Publications by Year in descending order

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IAMES M REDCED

#	Article	IF	CITATIONS
1	Structure and mechanism of DNA topoisomerase II. Nature, 1996, 379, 225-232.	13.7	813
2	EVOLUTIONARY RELATIONSHIPS AND STRUCTURAL MECHANISMS OF AAA+ PROTEINS. Annual Review of Biophysics and Biomolecular Structure, 2006, 35, 93-114.	18.3	692
3	All tangled up: how cells direct, manage and exploit topoisomerase function. Nature Reviews Molecular Cell Biology, 2011, 12, 827-841.	16.1	527
4	DNA topoisomerases: harnessing and constraining energy to govern chromosome topology. Quarterly Reviews of Biophysics, 2008, 41, 41-101.	2.4	398
5	Structural basis for ATP-dependent DnaA assembly and replication-origin remodeling. Nature Structural and Molecular Biology, 2006, 13, 676-683.	3.6	291
6	The structural basis for MCM2–7 helicase activation by GINS and Cdc45. Nature Structural and Molecular Biology, 2011, 18, 471-477.	3.6	290
7	Running in Reverse: The Structural Basis for Translocation Polarity in Hexameric Helicases. Cell, 2009, 139, 523-534.	13.5	274
8	Structural basis for gate-DNA recognition and bending by type IIA topoisomerases. Nature, 2007, 450, 1201-1205.	13.7	261
9	Structure of the Rho Transcription Terminator. Cell, 2003, 114, 135-146.	13.5	234
10	Ancient Origin of cGAS-STING Reveals Mechanism of Universal 2′,3′ cGAMP Signaling. Molecular Cell, 2015, 59, 891-903.	4.5	224
11	Structure and Function of Cdc6/Cdc18. Molecular Cell, 2000, 6, 637-648.	4.5	211
12	DNA stretching by bacterial initiators promotes replication origin opening. Nature, 2011, 478, 209-213.	13.7	172
13	Mechanisms for initiating cellular DNA replication. Science, 2017, 355, .	6.0	171
14	Crystal structure and stability of gyrase–fluoroquinolone cleaved complexes from <i>Mycobacterium tuberculosis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1706-1713.	3.3	164
15	Mechanisms for Initiating Cellular DNA Replication. Annual Review of Biochemistry, 2013, 82, 25-54.	5.0	161
16	The C-terminal domain of DNA gyrase A adopts a DNA-bending Â-pinwheel fold. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7293-7298.	3.3	148
17	The Structural Basis for Substrate Specificity in DNA Topoisomerase IV. Journal of Molecular Biology, 2005, 351, 545-561.	2.0	147
18	Structure of a topoisomerase Il–DNA–nucleotide complex reveals a new control mechanism for ATPase activity. Nature Structural and Molecular Biology, 2012, 19, 1147-1154.	3.6	147

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19	The X-ray structure of the papillomavirus helicase in complex with its molecular matchmaker E2. Genes and Development, 2004, 18, 1981-1996.	2.7	145
20	Mechanisms and regulation of DNA replication initiation in eukaryotes. Critical Reviews in Biochemistry and Molecular Biology, 2017, 52, 107-144.	2.3	140
21	Quaternary changes in topoisomerase II may direct orthogonal movement of two DNA strands. Nature Structural Biology, 1999, 6, 322-326.	9.7	137
22	The Structural Basis for Terminator Recognition by the Rho Transcription Termination Factor. Molecular Cell, 1999, 3, 487-493.	4.5	134
23	Replication Origin Recognition and Deformation by a Heterodimeric Archaeal Orc1 Complex. Science, 2007, 317, 1210-1213.	6.0	131
24	The nuts and bolts of ring-translocase structure and mechanism. Current Opinion in Structural Biology, 2011, 21, 240-248.	2.6	122
25	Structure-Guided Reprogramming of Human cGAS Dinucleotide Linkage Specificity. Cell, 2014, 158, 1011-1021.	13.5	111
26	Crystal structure of the eukaryotic origin recognition complex. Nature, 2015, 519, 321-326.	13.7	109
27	Structural Synergy and Molecular Crosstalk between Bacterial Helicase Loaders and Replication Initiators. Cell, 2008, 135, 623-634.	13.5	107
28	DNA binding polarity, dimerization, and ATPase ring remodeling in the CMG helicase of the eukaryotic replisome. ELife, 2014, 3, e03273.	2.8	103
29	Cell Cycle-Dependent Control and Roles of DNA Topoisomerase II. Genes, 2019, 10, 859.	1.0	101
30	Structure of the topoisomerase VI-B subunit: implications for type II topoisomerase mechanism and evolution. EMBO Journal, 2003, 22, 151-163.	3.5	98
31	Identification of Residues in Yeast Spo11p Critical for Meiotic DNA Double-Strand Break Formation. Molecular and Cellular Biology, 2002, 22, 1106-1115.	1.1	97
32	A new class of disordered elements controls DNA replication through initiator self-assembly. ELife, 2019, 8, .	2.8	92
33	The Bacterial DnaC Helicase Loader Is a DnaB Ring Breaker. Cell, 2013, 153, 438-448.	13.5	89
34	Holoenzyme assembly and ATP-mediated conformational dynamics of topoisomerase VI. Nature Structural and Molecular Biology, 2007, 14, 611-619.	3.6	86
35	Crystal structure of the N-terminal domain of the DnaB hexameric helicase. Structure, 1999, 7, 691-698.	1.6	81
36	Cdc45 (cell division cycle protein 45) guards the gate of the Eukaryote Replisome helicase stabilizing leading strand engagement. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E249-58.	3.3	78

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37	Molecular Basis for ATP-Hydrolysis-Driven DNA Translocation by the CMG Helicase of the Eukaryotic Replisome. Cell Reports, 2019, 28, 2673-2688.e8.	2.9	74
38	A high-transparency, micro-patternable chip for X-ray diffraction analysis of microcrystals under native growth conditions. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1987-1997.	2.5	73
39	Fluoroquinolone interactions with <i>Mycobacterium tuberculosis</i> 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.	3.3	73
40	Structural Dissection of ATP Turnover in the Prototypical GHL ATPase TopoVI. Structure, 2005, 13, 873-882.	1.6	69
41	Interdomain Communication of the Chd1 Chromatin Remodeler across the DNA Gyres of the Nucleosome. Molecular Cell, 2017, 65, 447-459.e6.	4.5	67
42	ATP-dependent conformational dynamics underlie the functional asymmetry of the replicative helicase from a minimalist eukaryote. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11999-12004.	3.3	65
43	Mechanism for the Regulated Control of Bacterial Transcription Termination by a Universal Adaptor Protein. Molecular Cell, 2018, 71, 911-922.e4.	4.5	65
44	Capture and X-ray diffraction studies of protein microcrystals in a microfluidic trap array. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 928-940.	2.5	64
45	The ancestral role of ATP hydrolysis in type II topoisomerases: prevention of DNA double-strand breaks. Nucleic Acids Research, 2011, 39, 6327-6339.	6.5	62
46	ATP binding controls distinct structural transitions of Escherichia coli DNA gyrase in complex with DNA. Nature Structural and Molecular Biology, 2012, 19, 538-546.	3.6	61
47	Nucleotide and Partner-Protein Control of Bacterial Replicative Helicase Structure and Function. Molecular Cell, 2013, 52, 844-854.	4.5	57
48	Biochemical characterization of Cdc6/Orc1 binding to the replication origin of the euryarchaeon Methanothermobacter thermoautotrophicus. Nucleic Acids Research, 2004, 32, 4821-4832.	6.5	55
49	Structural frameworks for considering microbial protein―and nucleic acidâ€dependent motor ATPases. Molecular Microbiology, 2008, 69, 1071-1090.	1.2	52
50	Mechanisms for Defining Supercoiling Set Point of DNA Gyrase Orthologs. Journal of Biological Chemistry, 2012, 287, 18636-18644.	1.6	51
51	Divalent metal cofactor binding in the kinetic folding trajectory of <i>Escherichia coli</i> ribonuclease Hl. Protein Science, 2000, 9, 1914-1921.	3.1	49
52	Physical Basis for the Loading of a Bacterial Replicative Helicase onto DNA. Molecular Cell, 2019, 74, 173-184.e4.	4.5	49
53	Molecular mechanisms of substrate-controlled ring dynamics and substepping in a nucleic acid-dependent hexameric motor. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7691-E7700.	3.3	48
54	Mechanisms for Defining Supercoiling Set Point of DNA Gyrase Orthologs. Journal of Biological Chemistry, 2012, 287, 18645-18654.	1.6	46

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55	The role of DNA bending in type IIA topoisomerase function. Nucleic Acids Research, 2013, 41, 5444-5456.	6.5	46
56	Resveratrol: A novel type of topoisomerase II inhibitor. Journal of Biological Chemistry, 2017, 292, 21011-21022.	1.6	45
57	A Meier-Gorlin syndrome mutation in a conserved C-terminal helix of Orc6 impedes origin recognition complex formation. ELife, 2013, 2, e00882.	2.8	45
58	Synergistic Coordination of Chromatin Torsional Mechanics and Topoisomerase Activity. Cell, 2019, 179, 619-631.e15.	13.5	44
59	Molecular determinants of origin discrimination by Orc1 initiators in archaea. Nucleic Acids Research, 2011, 39, 3621-3631.	6.5	42
60	Structural and functional characterization of the Spo11 core complex. Nature Structural and Molecular Biology, 2021, 28, 92-102.	3.6	41
61	An Atypical AAA+ ATPase Assembly Controls Efficient Transposition through DNA Remodeling and Transposase Recruitment. Cell, 2015, 162, 860-871.	13.5	38
62	Conformational control and DNA-binding mechanism of the metazoan origin recognition complex. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5906-E5915.	3.3	34
63	Loading strategies of ring-shaped nucleic acid translocases and helicases. Current Opinion in Structural Biology, 2014, 25, 16-24.	2.6	33
64	Ligand-induced and small-molecule control of substrate loading in a hexameric helicase. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13714-13719.	3.3	33
65	Lethal synergy involving bicyclomycin: an approach for reviving old antibiotics. Journal of Antimicrobial Chemotherapy, 2014, 69, 3227-3235.	1.3	29
66	Structural Mechanisms for Replicating DNA in Eukaryotes. Annual Review of Biochemistry, 2021, 90, 77-106.	5.0	29
67	Mechanism of Action of <i>Mycobacterium tuberculosis</i> Gyrase Inhibitors: A Novel Class of Gyrase Poisons. ACS Infectious Diseases, 2018, 4, 1211-1222.	1.8	23
68	A naturally chimeric type IIA topoisomerase in <i>Aquifex aeolicus</i> highlights an evolutionary path for the emergence of functional paralogs. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22055-22059.	3.3	20
69	Garcinol and Related Polyisoprenylated Benzophenones as Topoisomerase II Inhibitors: Biochemical and Molecular Modeling Studies. Journal of Natural Products, 2019, 82, 2768-2779.	1.5	20
70	Mechanisms of hexameric helicases. Critical Reviews in Biochemistry and Molecular Biology, 2021, 56, 621-639.	2.3	20
71	The role of ATP-dependent machines in regulating genome topology. Current Opinion in Structural Biology, 2016, 36, 85-96.	2.6	19
72	Topoisomerase VI senses and exploits both DNA crossings and bends to facilitate strand passage. ELife, 2018, 7, .	2.8	19

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73	Distinct Regions of the Escherichia coli ParC C-Terminal Domain Are Required for Substrate Discrimination by Topoisomerase IV. Journal of Molecular Biology, 2013, 425, 3029-3045.	2.0	18
74	Dynamic coupling between conformations and nucleotide states in DNA gyrase. Nature Chemical Biology, 2018, 14, 565-574.	3.9	18
75	Design, synthesis and molecular docking of new N-4-piperazinyl ciprofloxacin-triazole hybrids with potential antimicrobial activity. Bioorganic Chemistry, 2019, 88, 102952.	2.0	18
76	A Primase-Induced Conformational Switch Controls the Stability of the Bacterial Replisome. Molecular Cell, 2020, 79, 140-154.e7.	4.5	18
77	Primus inter pares (first among equals). , 2001, 8, 2-4.		17
78	Recognition of DNA Supercoil Geometry by Mycobacterium tuberculosis Gyrase. Biochemistry, 2017, 56, 5440-5448.	1.2	17
79	IOTA: integration optimization, triage and analysis tool for the processing of XFEL diffraction images. Journal of Applied Crystallography, 2016, 49, 1057-1064.	1.9	17
80	Viral hijacking of a replicative helicase loader and its implications for helicase loading control and phage replication. ELife, 2016, 5, .	2.8	16
81	Enzymes that push DNA around. , 1999, 6, 900-902.		12
82	Synthesis, molecular docking, antimicrobial evaluation, and DNA cleavage assay of new thiadiazole/oxadiazole ciprofloxacin derivatives. Monatshefte Für Chemie, 2019, 150, 1809-1824.	0.9	12
83	Tuning the sequence specificity of a transcription terminator. Current Genetics, 2019, 65, 729-733.	0.8	12
84	Synthesis and antimicrobial evaluation of new nitric oxideâ€donating fluoroquinolone/oxime hybrids. Archiv Der Pharmazie, 2021, 354, e2000180.	2.1	11
85	Molecular determinants of phase separation for Drosophila DNA replication licensing factors. ELife, 2021, 10, .	2.8	11
86	A complex suite of loci and elements in eukaryotic type II topoisomerases determine selective sensitivity to distinct poisoning agents. Nucleic Acids Research, 2019, 47, 8163-8179.	6.5	10
87	Control of topoisomerase II activity and chemotherapeutic inhibition by TCA cycle metabolites. Cell Chemical Biology, 2022, 29, 476-489.e6.	2.5	10
88	New fluoroquinolones/nitric oxide donor hybrids: design, synthesis and antitubercular activity. Medicinal Chemistry Research, 2019, 28, 1272-1283.	1.1	9
89	The molecular coupling between substrate recognition and ATP turnover in aÂAAA+ hexameric helicase loader. ELife, 2021, 10, .	2.8	7
90	Modulated control of DNA supercoiling balance by the DNA-wrapping domain of bacterial gyrase. Nucleic Acids Research, 2020, 48, 2035-2049.	6.5	3

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91	A Fluorescent Assay to Monitor Ligand-Dependent Closure of the Hexameric Rho Helicase Ring. Methods in Molecular Biology, 2021, 2209, 133-142.	0.4	2
92	Mechanisms and Functional Diversity of Macromolecular Remodeling by ATP-Dependent Motors. Journal of Molecular Biology, 2016, 428, 1819-1821.	2.0	0
93	Caught in the Open: A Domain Insertion of M.Âtuberculosis Gyrase Suppresses ATPase Dimerization. Structure, 2019, 27, 561-563.	1.6	Ο
94	Building A Replication Fork: Structural Synergy And Molecular Crosstalk Between Bacterial Initiators And Helicase Loaders. FASEB Journal, 2010, 24, 196.1.	0.2	0
95	Biochemical methods to monitor loading and activation of hexameric helicases. Methods in Enzymology, 2022, , 143-152.	0.4	0