Timothy M Lohman

List of Publications by Year in Descending Order

149 papers	14,304 citations	65 h-index	118 g-index
160 ext. papers	15,386 ext. citations	9.2 avg, IF	6.36 L-index

#	Paper	IF	Citations
149	DNA repair helicase UvrD1 is activated by redox-dependent dimerization via a 2B domain cysteine.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	1
148	How Glutamate Promotes Liquid-liquid Phase Separation and DNA Binding Cooperativity of E. coli SSB Protein.. *Journal of Molecular Biology*, **2022**, 167562	6.5	2
147	Kinetic and structural mechanism for DNA unwinding by a non-hexameric helicase. *Nature Communications*, **2021**, 12, 7015	17.4	2
146	Probing E.coli SSB protein-DNA topology by reversing DNA backbone polarity. *Biophysical Journal*, **2021**, 120, 1522-1533	2.9	
145	Regulation of E. coli Rep helicase activity by PriC. *Journal of Molecular Biology*, **2021**, 433, 167072	6.5	2
144	Replication | Nonhexameric SF1 DNA Helicases/Translocases **2021**, 98-103		
143	Allosteric effects of SSB C-terminal tail on assembly of E. coli RecOR proteins. *Nucleic Acids Research*, **2021**, 49, 1987-2004	20.1	4
142	Heterogeneity in E. coli RecBCD Helicase-DNA Binding and Base Pair Melting. *Journal of Molecular Biology*, **2021**, 433, 167147	6.5	0
141	Development of a single-stranded DNA-binding protein fluorescent fusion toolbox. *Nucleic Acids Research*, **2020**, 48, 6053-6067	20.1	5
140	Comparative Analysis of CPI-Motif Regulation of Biochemical Functions of Actin Capping Protein. *Biochemistry*, **2020**, 59, 1202-1215	3.2	3
139	Regulation of Rep helicase unwinding by an auto-inhibitory subdomain. *Nucleic Acids Research*, **2019**, 47, 2523-2532	20.1	11
138	Dynamics of E. coli single stranded DNA binding (SSB) protein-DNA complexes. *Seminars in Cell and Developmental Biology*, **2019**, 86, 102-111	7.5	43
137	Protein Environment and DNA Orientation Affect Protein-Induced Cy3 Fluorescence Enhancement. *Biophysical Journal*, **2019**, 117, 66-73	2.9	13
136	Are the intrinsically disordered linkers involved in SSB binding to accessory proteins?. *Nucleic Acids Research*, **2019**, 47, 8581-8594	20.1	15
135	UvrD helicase activation by MutL involves rotation of its 2B subdomain. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 16320-16325	11.5	16
134	A novel chlorophyll protein complex in the repair cycle of photosystem II. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 21907-21913	11.5	21
133	Regulation of Nearest-Neighbor Cooperative Binding of E.coli SSB Protein to DNA. *Biophysical Journal*, **2019**, 117, 2120-2140	2.9	12

132	Structural Mechanisms of Cooperative DNA Binding by Bacterial Single-Stranded DNA-Binding Proteins. *Journal of Molecular Biology*, **2019**, 431, 178-195	6.5	17
131	How Does a Helicase Unwind DNA? Insights from RecBCD Helicase. *BioEssays*, **2018**, 40, e1800009	4.1	7
130	Regulation of UvrD Helicase Activity by MutL. *Journal of Molecular Biology*, **2018**, 430, 4260-4274	6.5	10
129	Large domain movements upon UvrD dimerization and helicase activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 12178-12183	11.5	22
128	Modulation of Escherichia coli UvrD Single-Stranded DNA Translocation by DNA Base Composition. *Biophysical Journal*, **2017**, 113, 1405-1415	2.9	7
127	Glutamate promotes SSB protein-protein Interactions via intrinsically disordered regions. *Journal of Molecular Biology*, **2017**, 429, 2790-2801	6.5	32
126	Processive DNA Unwinding by RecBCD Helicase in the Absence of Canonical Motor Translocation. *Journal of Molecular Biology*, **2016**, 428, 2997-3012	6.5	7
125	Chemo-mechanical pushing of proteins along single-stranded DNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 6194-9	11.5	29
124	Is a fully wrapped SSB-DNA complex essential for Escherichia coli survival?. *Nucleic Acids Research*, **2016**, 44, 4317-29	20.1	8
123	Defining Single Molecular Forces Required for Notch Activation Using Nano Yoyo. *Nano Letters*, **2016**, 16, 3892-7	11.5	52
122	Protein structure. Direct observation of structure-function relationship in a nucleic acid-processing enzyme. *Science*, **2015**, 348, 352-4	33.3	124
121	Active displacement of RecA filaments by UvrD translocase activity. *Nucleic Acids Research*, **2015**, 43, 4133-49	20.1	38
120	Intrinsically disordered C-terminal tails of E. coli single-stranded DNA binding protein regulate cooperative binding to single-stranded DNA. *Journal of Molecular Biology*, **2015**, 427, 763-774	6.5	65
119	Structural dynamics of E. coli single-stranded DNA binding protein reveal DNA wrapping and unwrapping pathways. *ELife*, **2015**, 4,	8.9	56
118	Diffusion of human replication protein A along single-stranded DNA. *Journal of Molecular Biology*, **2014**, 426, 3246-3261	6.5	85
117	Ultrafast redistribution of E. coli SSB along long single-stranded DNA via intersegment transfer. *Journal of Molecular Biology*, **2014**, 426, 2413-21	6.5	40
116	Multiple C-terminal tails within a single E. coli SSB homotetramer coordinate DNA replication and repair. *Journal of Molecular Biology*, **2013**, 425, 4802-19	6.5	49
115	Direct imaging of single UvrD helicase dynamics on long single-stranded DNA. *Nature Communications*, **2013**, 4, 1878	17.4	68

114	Asymmetric regulation of bipolar single-stranded DNA translocation by the two motors within Escherichia coli RecBCD helicase. *Journal of Biological Chemistry*, **2013**, 288, 1055-64	5.4	15
113	Srs2 prevents Rad51 filament formation by repetitive motion on DNA. *Nature Communications*, **2013**, 4, 2281	17.4	64
112	SSB-DNA binding monitored by fluorescence intensity and anisotropy. *Methods in Molecular Biology* , **2012**, 922, 55-83	1.4	27
111	Single-stranded DNA translocation of E. coli UvrD monomer is tightly coupled to ATP hydrolysis. *Journal of Molecular Biology*, **2012**, 418, 32-46	6.5	26
110	Plasmodium falciparum SSB tetramer wraps single-stranded DNA with similar topology but opposite polarity to E. coli SSB. *Journal of Molecular Biology*, **2012**, 420, 269-83	6.5	31
109	Plasmodium falciparum SSB tetramer binds single-stranded DNA only in a fully wrapped mode. *Journal of Molecular Biology*, **2012**, 420, 284-95	6.5	23
108	Fluorescence methods to study DNA translocation and unwinding kinetics by nucleic acid motors. *Methods in Molecular Biology*, **2012**, 875, 85-104	1.4	16
107	The primary and secondary translocase activities within E. coli RecBC helicase are tightly coupled to ATP hydrolysis by the RecB motor. *Journal of Molecular Biology*, **2012**, 423, 303-14	6.5	15
106	SSB binding to ssDNA using isothermal titration calorimetry. *Methods in Molecular Biology*, **2012**, 922, 37-54	1.4	10
105	Single-molecule views of protein movement on single-stranded DNA. *Annual Review of Biophysics*, **2012**, 41, 295-319	21.1	102
104	Single-molecule nanopositioning: structural transitions of a helicase-DNA complex during ATP hydrolysis. *Biophysical Journal*, **2011**, 101, 976-84	2.9	9
103	SSB functions as a sliding platform that migrates on DNA via reptation. *Cell*, **2011**, 146, 222-32	56.2	138
102	Rotations of the 2B sub-domain of E. coli UvrD helicase/translocase coupled to nucleotide and DNA binding. *Journal of Molecular Biology*, **2011**, 411, 633-48	6.5	49
101	E. coli SSB tetramer binds the first and second molecules of (dT)(35) with heat capacities of opposite sign. *Biophysical Chemistry*, **2011**, 159, 48-57	3.5	8
100	Self-assembly of Escherichia coli MutL and its complexes with DNA. *Biochemistry*, **2011**, 50, 7868-80	3.2	10
99	Escherichia coli RecBC helicase has two translocase activities controlled by a single ATPase motor. *Nature Structural and Molecular Biology*, **2010**, 17, 1210-7	17.6	39
98	5SSingle-stranded/duplex DNA junctions are loading sites for E. coli UvrD translocase. *EMBO Journal*, **2010**, 29, 3826-39	13	34
97	Regulation of single-stranded DNA binding by the C termini of Escherichia coli single-stranded DNA-binding (SSB) protein. *Journal of Biological Chemistry*, **2010**, 285, 17246-52	5.4	73

96	Binding of the dimeric Deinococcus radiodurans single-stranded DNA binding protein to single-stranded DNA. *Biochemistry*, **2010**, 49, 8266-75	3.2	30
95	Binding specificity of Escherichia coli single-stranded DNA binding protein for the chi subunit of DNA pol III holoenzyme and PriA helicase. *Biochemistry*, **2010**, 49, 3555-66	3.2	55
94	Clipping along. *Journal of Molecular Biology*, **2010**, 399, 663-4	6.5	2
93	PcrA helicase dismantles RecA filaments by reeling in DNA in uniform steps. *Cell*, **2010**, 142, 544-55	56.2	133
92	Ensemble methods for monitoring enzyme translocation along single stranded nucleic acids. *Methods*, **2010**, 51, 269-76	4.6	26
91	Kinetics of motor protein translocation on single-stranded DNA. *Methods in Molecular Biology*, **2010** , 587, 45-56	1.4	13
90	SSB protein diffusion on single-stranded DNA stimulates RecA filament formation. *Nature*, **2009**, 461, 1092-7	50.4	203
89	Srs2 disassembles Rad51 filaments by a protein-protein interaction triggering ATP turnover and dissociation of Rad51 from DNA. *Molecular Cell*, **2009**, 35, 105-15	17.6	113
88	Non-hexameric DNA helicases and translocases: mechanisms and regulation. *Nature Reviews Molecular Cell Biology*, **2008**, 9, 391-401	48.7	261
87	Kinetic control of Mg2+-dependent melting of duplex DNA ends by Escherichia coli RecBC. *Journal of Molecular Biology*, **2008**, 378, 761-77	6.5	12
86	Influence of DNA end structure on the mechanism of initiation of DNA unwinding by the Escherichia coli RecBCD and RecBC helicases. *Journal of Molecular Biology*, **2008**, 382, 312-26	6.5	18
85	SSB as an organizer/mobilizer of genome maintenance complexes. *Critical Reviews in Biochemistry and Molecular Biology*, **2008**, 43, 289-318	8.7	378
84	Bacillus stearothermophilus PcrA monomer is a single-stranded DNA translocase but not a processive helicase in vitro. *Journal of Biological Chemistry*, **2007**, 282, 27076-27085	5.4	90
83	Dynamic structural rearrangements between DNA binding modes of E. coli SSB protein. *Journal of Molecular Biology*, **2007**, 369, 1244-57	6.5	112
82	A nonuniform stepping mechanism for E. coli UvrD monomer translocation along single-stranded DNA. *Molecular Cell*, **2007**, 26, 335-47	17.6	102
81	Effects of monovalent anions on a temperature-dependent heat capacity change for Escherichia coli SSB tetramer binding to single-stranded DNA. *Biochemistry*, **2006**, 45, 5190-205	3.2	29
80	Saccharomyces cerevisiae replication protein A binds to single-stranded DNA in multiple salt-dependent modes. *Biochemistry*, **2006**, 45, 11958-73	3.2	62
79	Microsecond dynamics of protein-DNA interactions: direct observation of the wrapping/unwrapping kinetics of single-stranded DNA around the E. coli SSB tetramer. *Journal of Molecular Biology*, **2006**, 359, 55-65	6.5	55

78	Probing 3SssDNA loop formation in E. coli RecBCD/RecBC-DNA complexes using non-natural DNA: a model for "Chi" recognition complexes. *Journal of Molecular Biology*, **2006**, 362, 26-43	6.5	19
77	Energetics of DNA end binding by E.coli RecBC and RecBCD helicases indicate loop formation in the 3Ssingle-stranded DNA tail. *Journal of Molecular Biology*, **2005**, 352, 765-82	6.5	31
76	Repetitive shuttling of a motor protein on DNA. *Nature*, **2005**, 437, 1321-5	50.4	233
75	Autoinhibition of Escherichia coli Rep monomer helicase activity by its 2B subdomain. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 10076-81	11.5	112
74	The C-terminal domain of full-length E. coli SSB is disordered even when bound to DNA. *Protein Science*, **2004**, 13, 1942-7	6.3	115
73	DNA-binding orientation and domain conformation of the E. coli rep helicase monomer bound to a partial duplex junction: single-molecule studies of fluorescently labeled enzymes. *Journal of Molecular Biology*, **2004**, 336, 395-408	6.5	144
72	Fluorescence stopped-flow studies of single turnover kinetics of E.coli RecBCD helicase-catalyzed DNA unwinding. *Journal of Molecular Biology*, **2004**, 339, 731-50	6.5	69
71	Effects of temperature and ATP on the kinetic mechanism and kinetic step-size for E.coli RecBCD helicase-catalyzed DNA unwinding. *Journal of Molecular Biology*, **2004**, 339, 751-71	6.5	41
70	ATP-dependent translocation of proteins along single-stranded DNA: models and methods of analysis of pre-steady state kinetics. *Journal of Molecular Biology*, **2004**, 344, 1265-86	6.5	61
69	Mechanism of ATP-dependent translocation of E.coli UvrD monomers along single-stranded DNA. *Journal of Molecular Biology*, **2004**, 344, 1287-309	6.5	170
68	Probing single-stranded DNA conformational flexibility using fluorescence spectroscopy. *Biophysical Journal*, **2004**, 86, 2530-7	2.9	479
67	DNA Helicases: Dimeric Enzyme Action **2004**, 618-623		1
66	Kinetic mechanism for formation of the active, dimeric UvrD helicase-DNA complex. *Journal of Biological Chemistry*, **2003**, 278, 31930-40	5.4	43
65	DNA helicases, motors that move along nucleic acids: Lessons from the SF1 helicase superfamily. *The Enzymes*, **2003**, 303-VII	2.3	11
64	Self-association equilibria of Escherichia coli UvrD helicase studied by analytical ultracentrifugation. *Journal of Molecular Biology*, **2003**, 325, 889-912	6.5	41
63	A Dimer of Escherichia coli UvrD is the active form of the helicase in vitro. *Journal of Molecular Biology*, **2003**, 325, 913-35	6.5	168
62	General methods for analysis of sequential "n-step" kinetic mechanisms: application to single turnover kinetics of helicase-catalyzed DNA unwinding. *Biophysical Journal*, **2003**, 85, 2224-39	2.9	120
61	Initiation and re-initiation of DNA unwinding by the Escherichia coli Rep helicase. *Nature*, **2002**, 419, 638-41	50.4	390

60	The 2B domain of the Escherichia coli Rep protein is not required for DNA helicase activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 16006-11	11.5	57
59	Stopped-flow studies of the kinetics of single-stranded DNA binding and wrapping around the Escherichia coli SSB tetramer. *Biochemistry*, **2002**, 41, 6032-44	3.2	83
58	Kinetic mechanism of direct transfer of Escherichia coli SSB tetramers between single-stranded DNA molecules. *Biochemistry*, **2002**, 41, 11611-27	3.2	71
57	DNA unwinding step-size of E. coli RecBCD helicase determined from single turnover chemical quenched-flow kinetic studies. *Journal of Molecular Biology*, **2002**, 324, 409-28	6.5	82
56	E. coli Rep oligomers are required to initiate DNA unwinding in vitro. *Journal of Molecular Biology*, **2001**, 310, 327-50	6.5	120
55	Large contributions of coupled protonation equilibria to the observed enthalpy and heat capacity changes for ssDNA binding to Escherichia coli SSB protein. *Proteins: Structure, Function and Bioinformatics*, **2000**, Suppl 4, 8-22	4.2	51
54	Structure of the DNA binding domain of E. coli SSB bound to ssDNA. *Nature Structural Biology*, **2000** , 7, 648-52		366
53	Adenine base unstacking dominates the observed enthalpy and heat capacity changes for the Escherichia coli SSB tetramer binding to single-stranded oligoadenylates. *Biochemistry*, **1999**, 38, 7388-97	3.2	70
52	An oligomeric form of E. coli UvrD is required for optimal helicase activity. *Journal of Molecular Biology*, **1999**, 293, 815-34	6.5	95
51	Comparisons between the structures of HCV and Rep helicases reveal structural similarities between SF1 and SF2 super-families of helicases. *Protein Science*, **1998**, 7, 605-10	6.3	97
50	Staying on track: common features of DNA helicases and microtubule motors. *Cell*, **1998**, 93, 9-12	56.2	60
49	Kinetic mechanism for the sequential binding of two single-stranded oligodeoxynucleotides to the Escherichia coli Rep helicase dimer. *Biochemistry*, **1998**, 37, 891-9	3.2	14
48	Calorimetric studies of E. coli SSB protein-single-stranded DNA interactions. Effects of monovalent salts on binding enthalpy. *Journal of Molecular Biology*, **1998**, 278, 999-1014	6.5	84
47	A two-site mechanism for ATP hydrolysis by the asymmetric Rep dimer P2S as revealed by site-specific inhibition with ADP-A1F4. *Biochemistry*, **1997**, 36, 3115-25	3.2	26
46	Major domain swiveling revealed by the crystal structures of complexes of E. coli Rep helicase bound to single-stranded DNA and ADP. *Cell*, **1997**, 90, 635-47	56.2	448
45	A mutation in E. coli SSB protein (W54S) alters intra-tetramer negative cooperativity and inter-tetramer positive cooperativity for single-stranded DNA binding. *Biophysical Chemistry*, **1997**, 64, 235-51	3.5	23
44	Kinetic mechanism of DNA binding and DNA-induced dimerization of the Escherichia coli Rep helicase. *Biochemistry*, **1996**, 35, 2268-82	3.2	47
43	Mechanisms of helicase-catalyzed DNA unwinding. *Annual Review of Biochemistry*, **1996**, 65, 169-214	29.1	668

42	A highly salt-dependent enthalpy change for Escherichia coli SSB protein-nucleic acid binding due to ion-protein interactions. *Biochemistry*, **1996**, 35, 5272-9	3.2	82
41	ATPase activity of Escherichia coli Rep helicase is dramatically dependent on DNA ligation and protein oligomeric states. *Biochemistry*, **1996**, 35, 5726-34	3.2	37
40	ATP hydrolysis stimulates binding and release of single stranded DNA from alternating subunits of the dimeric E. coli Rep helicase: implications for ATP-driven helicase translocation. *Journal of Molecular Biology*, **1996**, 263, 411-22	6.5	29
39	Thermodynamics of charged oligopeptide-heparin interactions. *Biochemistry*, **1995**, 34, 2908-15	3.2	83
38	Escherichia coli single-stranded DNA-binding protein: multiple DNA-binding modes and cooperativities. *Annual Review of Biochemistry*, **1994**, 63, 527-70	29.1	543
37	Co-operative binding of Escherichia coli SSB tetramers to single-stranded DNA in the (SSB)35 binding mode. *Journal of Molecular Biology*, **1994**, 236, 106-23	6.5	94
36	Linkage of pH, anion and cation effects in protein-nucleic acid equilibria. Escherichia coli SSB protein-single stranded nucleic acid interactions. *Journal of Molecular Biology*, **1994**, 236, 165-78	6.5	59
35	Single-turnover kinetics of helicase-catalyzed DNA unwinding monitored continuously by fluorescence energy transfer. *Biochemistry*, **1994**, 33, 14306-16	3.2	96
34	Effects of base composition on the negative cooperativity and binding mode transitions of Escherichia coli SSB-single-stranded DNA complexes. *Biochemistry*, **1994**, 33, 6167-76	3.2	24
33	Apparent heat capacity change accompanying a nonspecific protein-DNA interaction. Escherichia coli SSB tetramer binding to oligodeoxyadenylates. *Biochemistry*, **1994**, 33, 12896-910	3.2	85
32	Overexpression, purification, DNA binding, and dimerization of the Escherichia coli uvrD gene product (helicase II). *Biochemistry*, **1993**, 32, 602-12	3.2	84
31	Escherichia coli rep helicase unwinds DNA by an active mechanism. *Biochemistry*, **1993**, 32, 6815-20	3.2	106
30	Kinetics of Escherichia coli helicase II-catalyzed unwinding of fully duplex and nicked circular DNA. *Biochemistry*, **1993**, 32, 4128-38	3.2	20
29	Thermodynamics of ligand-nucleic acid interactions. *Methods in Enzymology*, **1992**, 212, 400-24	1.7	108
28	Nonspecific ligand-DNA equilibrium binding parameters determined by fluorescence methods. *Methods in Enzymology*, **1992**, 212, 424-58	1.7	60
27	Cooperative binding of polyamines induces the Escherichia coli single-strand binding protein-DNA binding mode transitions. *Biochemistry*, **1992**, 31, 6166-74	3.2	27
26	DNA-induced dimerization of the Escherichia coli Rep helicase. *Journal of Molecular Biology*, **1991**, 221, 1165-81	6.5	86
25	Monomers of the Escherichia coli SSB-1 mutant protein bind single-stranded DNA. *Journal of Molecular Biology*, **1991**, 217, 63-74	6.5	36

24	Thermodynamic methods for model-independent determination of equilibrium binding isotherms for protein-DNA interactions: spectroscopic approaches to monitor binding. *Methods in Enzymology* , **1991**, 208, 258-90	1.7	102
23	On the cooperative binding of large ligands to a one-dimensional homogeneous lattice: the generalized three-state lattice model. *Biopolymers*, **1989**, 28, 1637-43	2.2	67
22	Negative co-operativity in Escherichia coli single strand binding protein-oligonucleotide interactions. I. Evidence and a quantitative model. *Journal of Molecular Biology*, **1989**, 207, 249-68	6.5	69
21	Negative co-operativity in Escherichia coli single strand binding protein-oligonucleotide interactions. II. Salt, temperature and oligonucleotide length effects. *Journal of Molecular Biology*, **1989**, 207, 269-88	6.5	69
20	Negative cooperativity within individual tetramers of Escherichia coli single strand binding protein is responsible for the transition between the (SSB)35 and (SSB)56 DNA binding modes. *Biochemistry* , **1988**, 27, 2260-5	3.2	70
19	Equilibrium binding of Escherichia coli single-strand binding protein to single-stranded nucleic acids in the (SSB)65 binding mode. Cation and anion effects and polynucleotide specificity. *Biochemistry*, **1988**, 27, 456-71	3.2	150
18	Interactions of the E. coli single strand binding (SSB) protein with ss nucleic acids. Binding mode transitions and equilibrium binding studies. *Biochemical Pharmacology*, **1988**, 37, 1781-2	6	15
17	Limited co-operativity in protein-nucleic acid interactions. A thermodynamic model for the interactions of Escherichia coli single strand binding protein with single-stranded nucleic acids in the "beaded", (SSB)65 mode. *Journal of Molecular Biology*, **1987**, 195, 897-907	6.5	69
16	A general method of analysis of ligand-macromolecule equilibria using a spectroscopic signal from the ligand to monitor binding. Application to Escherichia coli single-strand binding protein-nucleic acid interactions. *Biochemistry*, **1987**, 26, 3099-106	3.2	106
15	Escherichia coli single-strand binding protein forms multiple, distinct complexes with single-stranded DNA. *Biochemistry*, **1986**, 25, 7799-802	3.2	169
14	Kinetics of protein-nucleic acid interactions: use of salt effects to probe mechanisms of interaction. *Critical Reviews in Biochemistry*, **1986**, 19, 191-245		159
13	Large-scale overproduction and rapid purification of the Escherichia coli ssb gene product. Expression of the ssb gene under lambda PL control. *Biochemistry*, **1986**, 25, 21-5	3.2	214
12	Salt-dependent changes in the DNA binding co-operativity of Escherichia coli single strand binding protein. *Journal of Molecular Biology*, **1986**, 187, 603-15	6.5	152
11	Kinetics and mechanism of dissociation of cooperatively bound T4 gene 32 protein-single-stranded nucleic acid complexes. 1. Irreversible dissociation induced by sodium chloride concentration jumps. *Biochemistry*, **1984**, 23, 4656-65	3.2	40
10	Kinetics and mechanism of dissociation of cooperatively bound T4 gene 32 protein-single-stranded nucleic acid complexes. 2. Changes in mechanism as a function of sodium chloride concentration and other solution variables. *Biochemistry*, **1984**, 23, 4665-75	3.2	32
9	Model for the irreversible dissociation kinetics of cooperatively bound protein-nucleic acid complexes. *Biopolymers*, **1983**, 22, 1697-713	2.2	21
8	Kinetics and mechanism of the association of the bacteriophage T4 gene 32 (helix destabilizing) protein with single-stranded nucleic acids. Evidence for protein translocation. *Journal of Molecular Biology*, **1981**, 152, 67-109	6.5	56
7	Pentalysine-deoxyribonucleic acid interactions: a model for the general effects of ion concentrations on the interactions of proteins with nucleic acids. *Biochemistry*, **1980**, 19, 3522-30	3.2	191

6	Analysis of ion concentration effects of the kinetics of protein-nucleic acid interactions. Application to lac repressor-operator interactions. *Biophysical Chemistry*, **1978**, 8, 281-94	3.5	80
5	A semiempirical extension of polyelectrolyte theory to the treatment of oligoelectrolytes: Application to oligonucleotide helix-coil transitions. *Biopolymers*, **1978**, 17, 159-166	2.2	93
4	Thermodynamic analysis of ion effects on the binding and conformational equilibria of proteins and nucleic acids: the roles of ion association or release, screening, and ion effects on water activity. *Quarterly Reviews of Biophysics*, **1978**, 11, 103-78	7	1435
3	Interpretation of monovalent and divalent cation effects on the lac repressor-operator interaction. *Biochemistry*, **1977**, 16, 4791-6	3.2	244
2	Ion effects on ligand-nucleic acid interactions. *Journal of Molecular Biology*, **1976**, 107, 145-58	6.5	965
1	Na+ effects on transition of DNA and polynucleotides of variable linear charge density. *Biopolymers* , **1976**, 15, 893-915	2.2	117