# Robert T Sauer

#### List of Publications by Citations

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281 82 21,727 135 h-index g-index citations papers 23,642 12.9 294 7.02 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
281	Transcription factors: structural families and principles of DNA recognition. <i>Annual Review of Biochemistry</i> , <b>1992</b> , 61, 1053-95	29.1	1284
280	AAA+ proteases: ATP-fueled machines of protein destruction. <i>Annual Review of Biochemistry</i> , <b>2011</b> , 80, 587-612	29.1	525
279	Proteomic discovery of cellular substrates of the ClpXP protease reveals five classes of ClpX-recognition signals. <i>Molecular Cell</i> , <b>2003</b> , 11, 671-83	17.6	465
278	OMP peptide signals initiate the envelope-stress response by activating DegS protease via relief of inhibition mediated by its PDZ domain. <i>Cell</i> , <b>2003</b> , 113, 61-71	56.2	412
277	Alternative packing arrangements in the hydrophobic core of lambda repressor. <i>Nature</i> , <b>1989</b> , 339, 31-6	50.4	376
276	Sculpting the proteome with AAA(+) proteases and disassembly machines. <i>Cell</i> , <b>2004</b> , 119, 9-18	56.2	361
275	lambda Repressor and crocomponents of an efficient molecular switch. <i>Nature</i> , <b>1981</b> , 294, 217-23	50.4	359
274	The SsrA-SmpB system for protein tagging, directed degradation and ribosome rescue. <i>Nature Structural Biology</i> , <b>2000</b> , 7, 449-55		327
273	Are buried salt bridges important for protein stability and conformational specificity?. <i>Nature Structural and Molecular Biology</i> , <b>1995</b> , 2, 122-8	17.6	305
272	Rebuilt AAA + motors reveal operating principles for ATP-fuelled machines. <i>Nature</i> , <b>2005</b> , 437, 1115-20	50.4	299
271	ClpXP, an ATP-powered unfolding and protein-degradation machine. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2012</b> , 1823, 15-28	4.9	287
270	Dynamics of substrate denaturation and translocation by the ClpXP degradation machine. <i>Molecular Cell</i> , <b>2000</b> , 5, 639-48	17.6	271
269	A specificity-enhancing factor for the ClpXP degradation machine. <i>Science</i> , <b>2000</b> , 289, 2354-6	33.3	260
268	DNA recognition by beta-sheets in the Arc repressor-operator crystal structure. <i>Nature</i> , <b>1994</b> , 367, 754-	<b>7</b> 50.4	260
267	The tmRNA system for translational surveillance and ribosome rescue. <i>Annual Review of Biochemistry</i> , <b>2007</b> , 76, 101-24	29.1	253
266	Linkage between ATP consumption and mechanical unfolding during the protein processing reactions of an AAA+ degradation machine. <i>Cell</i> , <b>2003</b> , 114, 511-20	56.2	244
265	Design, construction and characterization of a set of insulated bacterial promoters. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, 1131-41	20.1	237

### (2005-2001)

264	Overlapping recognition determinants within the ssrA degradation tag allow modulation of proteolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 10584-9	11.5	224	
263	Equilibrium dissociation and unfolding of the Arc repressor dimer. <i>Biochemistry</i> , <b>1989</b> , 28, 7139-43	3.2	223	
262	Structures of asymmetric ClpX hexamers reveal nucleotide-dependent motions in a AAA+ protein-unfolding machine. <i>Cell</i> , <b>2009</b> , 139, 744-56	56.2	218	
261	ATP-dependent proteases of bacteria: recognition logic and operating principles. <i>Trends in Biochemical Sciences</i> , <b>2006</b> , 31, 647-53	10.3	217	
260	Pore loops of the AAA+ ClpX machine grip substrates to drive translocation and unfolding. <i>Nature Structural and Molecular Biology</i> , <b>2008</b> , 15, 1147-51	17.6	215	
259	Single-molecule protein unfolding and translocation by an ATP-fueled proteolytic machine. <i>Cell</i> , <b>2011</b> , 145, 257-67	56.2	205	
258	Molecular determinants of complex formation between Clp/Hsp100 ATPases and the ClpP peptidase. <i>Nature Structural Biology</i> , <b>2001</b> , 8, 230-3		205	
257	The role of internal packing interactions in determining the structure and stability of a protein. <i>Journal of Molecular Biology</i> , <b>1991</b> , 219, 359-76	6.5	198	
256	Cleavage of the A site mRNA codon during ribosome pausing provides a mechanism for translational quality control. <i>Molecular Cell</i> , <b>2003</b> , 12, 903-11	17.6	190	
255	Mechanistic insights into bacterial AAA+ proteases and protein-remodelling machines. <i>Nature Reviews Microbiology</i> , <b>2016</b> , 14, 33-44	22.2	179	
254	Recognition of misfolded proteins by Lon, a AAA(+) protease. <i>Genes and Development</i> , <b>2008</b> , 22, 2267-7	712.6	169	
253	Structural and energetic consequences of disruptive mutations in a protein core. <i>Biochemistry</i> , <b>1992</b> , 31, 4324-33	3.2	164	
252	Reverse hydrophobic effects relieved by amino-acid substitutions at a protein surface. <i>Nature</i> , <b>1990</b> , 344, 363-4	50.4	161	
251	Modulating substrate choice: the SspB adaptor delivers a regulator of the extracytoplasmic-stress response to the AAA+ protease ClpXP for degradation. <i>Genes and Development</i> , <b>2004</b> , 18, 2292-301	12.6	160	
250	P22 Arc repressor: folding kinetics of a single-domain, dimeric protein. <i>Biochemistry</i> , <b>1994</b> , 33, 1125-33	3.2	160	
249	Engineering controllable protein degradation. <i>Molecular Cell</i> , <b>2006</b> , 22, 701-7	17.6	156	
248	Crystal structure of the nickel-responsive transcription factor NikR. <i>Nature Structural and Molecular Biology</i> , <b>2003</b> , 10, 794-9	17.6	151	
247	Asymmetric interactions of ATP with the AAA+ ClpX6 unfoldase: allosteric control of a protein machine. <i>Cell</i> , <b>2005</b> , 121, 1017-27	56.2	145	

246	Regulatory functions of the lambda repressor reside in the amino-terminal domain. <i>Nature</i> , <b>1979</b> , 279, 396-400	50.4	142
245	Sequence space, folding and protein design. <i>Current Opinion in Structural Biology</i> , <b>1996</b> , 6, 3-10	8.1	141
244	Regulation of high affinity nickel uptake in bacteria. Ni2+-Dependent interaction of NikR with wild-type and mutant operator sites. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 19735-41	5.4	139
243	Lambda repressor mutations that increase the affinity and specificity of operator binding. <i>Cell</i> , <b>1985</b> , 42, 549-58	56.2	139
242	Bacteriophage lambda repressor and cro protein: interactions with operator DNA. <i>Methods in Enzymology</i> , <b>1980</b> , 65, 839-56	1.7	139
241	Proteomic profiling of ClpXP substrates after DNA damage reveals extensive instability within SOS regulon. <i>Molecular Cell</i> , <b>2006</b> , 22, 193-204	17.6	131
240	Dual molecular signals mediate the bacterial response to outer-membrane stress. <i>Science</i> , <b>2013</b> , 340, 837-41	33.3	130
239	Proline residues at the C terminus of nascent chains induce SsrA tagging during translation termination. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 33825-32	5.4	130
238	Role of the processing pore of the ClpX AAA+ ATPase in the recognition and engagement of specific protein substrates. <i>Genes and Development</i> , <b>2004</b> , 18, 369-74	12.6	129
237	Contributions of a hydrogen bond/salt bridge network to the stability of secondary and tertiary structure in lambda repressor. <i>Protein Science</i> , <b>1994</b> , 3, 2217-25	6.3	127
236	Changing the DNA-binding specificity of a repressor. <i>Cell</i> , <b>1983</b> , 35, 777-83	56.2	126
235	Diverse effects of mutations in the signal sequence on the secretion of beta-lactamase in Salmonella typhimurium. <i>Cell</i> , <b>1982</b> , 30, 903-14	56.2	123
234	Cooperatively folded proteins in random sequence libraries. <i>Nature Structural Biology</i> , <b>1995</b> , 2, 856-64		122
233	The N-terminal arms of lambda repressor wrap around the operator DNA. <i>Nature</i> , <b>1982</b> , 298, 441-3	50.4	122
232	DNA sequence of the bacteriophage gama cl gene. <i>Nature</i> , <b>1978</b> , 276, 301-2	50.4	122
231	Diverse pore loops of the AAA+ ClpX machine mediate unassisted and adaptor-dependent recognition of ssrA-tagged substrates. <i>Molecular Cell</i> , <b>2008</b> , 29, 441-50	17.6	121
230	P22 Arc repressor: transition state properties inferred from mutational effects on the rates of protein unfolding and refolding. <i>Biochemistry</i> , <b>1995</b> , 34, 13914-9	3.2	121
229	Effects of protein stability and structure on substrate processing by the ClpXP unfolding and degradation machine. <i>EMBO Journal</i> , <b>2001</b> , 20, 3092-100	13	120

# (2014-2005)

228	Specificity versus stability in computational protein design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 12724-9	11.5	118
227	Primary structure of the lambda repressor. <i>Biochemistry</i> , <b>1978</b> , 17, 1092-100	3.2	114
226	Cytoplasmic degradation of ssrA-tagged proteins. <i>Molecular Microbiology</i> , <b>2005</b> , 57, 1750-61	4.1	113
225	Communication between ClpX and ClpP during substrate processing and degradation. <i>Nature Structural and Molecular Biology</i> , <b>2004</b> , 11, 404-11	17.6	109
224	Differential DNA-binding specificity of the engrailed homeodomain: the role of residue 50. <i>Biochemistry</i> , <b>1994</b> , 33, 9187-94	3.2	109
223	PDZ-like domains mediate binding specificity in the Clp/Hsp100 family of chaperones and protease regulatory subunits. <i>Cell</i> , <b>1997</b> , 91, 939-47	56.2	106
222	Stabilization of lambda repressor against thermal denaturation by site-directed GlyAla changes in alpha-helix 3. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1986</b> , 1, 43-6	4.2	103
221	Identification of endogenous SsrA-tagged proteins reveals tagging at positions corresponding to stop codons. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 28509-15	5.4	102
220	Protein stability effects of a complete set of alanine substitutions in Arc repressor. <i>Nature Structural Biology</i> , <b>1994</b> , 1, 518-23		102
219	NikR is a ribbon-helix-helix DNA-binding protein. <i>Protein Science</i> , <b>1999</b> , 8, 2494-500	6.3	101
218	Allosteric activation of DegS, a stress sensor PDZ protease. <i>Cell</i> , <b>2007</b> , 131, 572-83	56.2	101
217	Identification of the Cdc4800S proteasome as an ancient AAA+ proteolytic machine. <i>Science</i> , <b>2012</b> , 337, 843-6	33.3	100
216	NikR repressor: high-affinity nickel binding to the C-terminal domain regulates binding to operator DNA. <i>Chemistry and Biology</i> , <b>2002</b> , 9, 1141-8		99
215	Protein unfolding by a AAA+ protease is dependent on ATP-hydrolysis rates and substrate energy landscapes. <i>Nature Structural and Molecular Biology</i> , <b>2008</b> , 15, 139-45	17.6	98
214	Evolution of a protein fold in vitro. <i>Science</i> , <b>1999</b> , 284, 325-8	33.3	97
213	Distinct static and dynamic interactions control ATPase-peptidase communication in a AAA+ protease. <i>Molecular Cell</i> , <b>2007</b> , 27, 41-52	17.6	96
212	Stop codons preceded by rare arginine codons are efficient determinants of SsrA tagging in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 3440-5	11.5	96
211	Stochastic but highly coordinated protein unfolding and translocation by the ClpXP proteolytic machine. <i>Cell</i> , <b>2014</b> , 158, 647-58	56.2	95

210	Identification of protein folds: matching hydrophobicity patterns of sequence sets with solvent accessibility patterns of known structures. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1990</b> , 7, 257	-6 <sup>4</sup> 4 <sup>2</sup>	92
209	Nucleotide binding and conformational switching in the hexameric ring of a AAA+ machine. <i>Cell</i> , <b>2013</b> , 153, 628-39	56.2	91
208	Ribosome rescue: tmRNA tagging activity and capacity in Escherichia coli. <i>Molecular Microbiology</i> , <b>2005</b> , 58, 456-66	4.1	91
207	Simultaneous and functional binding of SmpB and EF-Tu-TP to the alanyl acceptor arm of tmRNA. <i>Journal of Molecular Biology</i> , <b>2001</b> , 314, 9-21	6.5	91
206	Dexamethasone Methotrexate: An Efficient Chemical Inducer of Protein Dimerization In Vivo. Journal of the American Chemical Society, 2000, 122, 4247-4248	16.4	90
205	Amino acid substitutions that increase the thermal stability of the lambda Cro protein. <i>Proteins:</i> Structure, Function and Bioinformatics, <b>1989</b> , 5, 202-10	4.2	87
204	Distinct peptide signals in the UmuD and UmuD & ubunits of UmuD/D Omediate tethering and substrate processing by the ClpXP protease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 13219-24	11.5	86
203	Partitioning between unfolding and release of native domains during ClpXP degradation determines substrate selectivity and partial processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 1390-5	11.5	86
202	Probing the roles of residues at the e and g positions of the GCN4 leucine zipper by combinatorial mutagenesis. <i>Protein Science</i> , <b>1993</b> , 2, 1072-84	6.3	86
201	Sequence determinants of C-terminal substrate recognition by the Tsp protease. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 2589-93	5.4	85
200	Protein stabilization by removal of unsatisfied polar groups: computational approaches and experimental tests. <i>Biochemistry</i> , <b>1996</b> , 35, 7621-5	3.2	84
199	Structure of a delivery protein for an AAA+ protease in complex with a peptide degradation tag. <i>Molecular Cell</i> , <b>2003</b> , 12, 365-72	17.6	79
198	Flexible linkers leash the substrate binding domain of SspB to a peptide module that stabilizes delivery complexes with the AAA+ ClpXP protease. <i>Molecular Cell</i> , <b>2003</b> , 12, 355-63	17.6	79
197	Characterization of a specificity factor for an AAA+ ATPase: assembly of SspB dimers with ssrA-tagged proteins and the ClpX hexamer. <i>Chemistry and Biology</i> , <b>2002</b> , 9, 1237-45		78
196	Nonlinear free energy relationships in Arc repressor unfolding imply the existence of unstable, native-like folding intermediates. <i>Biochemistry</i> , <b>1996</b> , 35, 4795-802	3.2	78
195	Direct and adaptor-mediated substrate recognition by an essential AAA+ protease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 6590-5	11.5	77
194	Latent ClpX-recognition signals ensure LexA destruction after DNA damage. <i>Genes and Development</i> , <b>2003</b> , 17, 1084-9	12.6	77
193	Phage P22 tail protein: gene and amino acid sequence. <i>Biochemistry</i> , <b>1982</b> , 21, 5811-5	3.2	75

192	The molecular basis of N-end rule recognition. <i>Molecular Cell</i> , <b>2008</b> , 32, 406-14	17.6	73
191	P22 Arc repressor: enhanced expression of unstable mutants by addition of polar C-terminal sequences. <i>Protein Science</i> , <b>1993</b> , 2, 2198-205	6.3	73
190	Specificity of minor-groove and major-groove interactions in a homeodomain-DNA complex. <i>Biochemistry</i> , <b>1995</b> , 34, 14601-8	3.2	72
189	An evolutionary bridge to a new protein fold. <i>Nature Structural Biology</i> , <b>2000</b> , 7, 1129-32		71
188	Major groove DNA recognition by Esheets: the ribbon-helix-helix family of gene regulatory proteins. <i>Current Opinion in Structural Biology</i> , <b>1994</b> , 4, 36-43	8.1	70
187	Bacteriophage P22 Mnt repressor. DNA binding and effects on transcription in vitro. <i>Journal of Molecular Biology</i> , <b>1987</b> , 195, 311-22	6.5	70
186	Primary structure of the imml immunity region of bacteriophage P22. <i>Journal of Molecular Biology</i> , <b>1983</b> , 168, 699-713	6.5	70
185	Functionally acceptable substitutions in two alpha-helical regions of lambda repressor. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1990</b> , 7, 306-16	4.2	69
184	Inhibition of regulated proteolysis by RseB. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 3771-6	11.5	68
183	Control of Pseudomonas aeruginosa AlgW protease cleavage of MucA by peptide signals and MucB. <i>Molecular Microbiology</i> , <b>2009</b> , 72, 368-79	4.1	67
182	Crystal structure of Mycobacterium tuberculosis ClpP1P2 suggests a model for peptidase activation by AAA+ partner binding and substrate delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E4587-95	11.5	66
181	Control of substrate gating and translocation into ClpP by channel residues and ClpX binding. <i>Journal of Molecular Biology</i> , <b>2010</b> , 399, 707-18	6.5	66
180	Random mutagenesis of protein sequences using oligonucleotide cassettes. <i>Methods in Enzymology</i> , <b>1991</b> , 208, 564-86	1.7	66
179	Primary structure of the phage P22 repressor and its gene c2. <i>Biochemistry</i> , <b>1981</b> , 20, 3591-8	3.2	66
178	Restriction of the conformational dynamics of the cyclic acyldepsipeptide antibiotics improves their antibacterial activity. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 1922-9	16.4	65
177	Degrons in protein substrates program the speed and operating efficiency of the AAA+ Lon proteolytic machine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 18503-8	11.5	65
176	Understanding protein hydrogen bond formation with kinetic H/D amide isotope effects. <i>Nature Structural Biology</i> , <b>2002</b> , 9, 458-63		64
175	Mechanochemical basis of protein degradation by a double-ring AAA+ machine. <i>Nature Structural and Molecular Biology</i> , <b>2014</b> , 21, 871-5	17.6	63

174	Covalent linkage of distinct substrate degrons controls assembly and disassembly of DegP proteolytic cages. <i>Cell</i> , <b>2011</b> , 145, 67-78	56.2	63
173	Nucleotide-dependent substrate handoff from the SspB adaptor to the AAA+ ClpXP protease. <i>Molecular Cell</i> , <b>2004</b> , 16, 343-50	17.6	63
172	Arc repressor is tetrameric when bound to operator DNA. <i>Biochemistry</i> , <b>1990</b> , 29, 11189-95	3.2	61
171	Nickel coordination is regulated by the DNA-bound state of NikR. <i>Nature Structural Biology</i> , <b>2003</b> , 10, 126-30		60
170	Isolation and analysis of arc repressor mutants: evidence for an unusual mechanism of DNA binding. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1986</b> , 1, 302-11	4.2	60
169	Equilibrium stability and sub-millisecond refolding of a designed single-chain Arc repressor. <i>Biochemistry</i> , <b>1996</b> , 35, 13878-84	3.2	59
168	Solution structure of dimeric Mnt repressor (1-76). <i>Biochemistry</i> , <b>1994</b> , 33, 15036-45	3.2	59
167	C-terminal specific protein degradation: activity and substrate specificity of the Tsp protease. <i>Protein Science</i> , <b>1995</b> , 4, 1507-15	6.3	58
166	ClpS modulates but is not essential for bacterial N-end rule degradation. <i>Genes and Development</i> , <b>2007</b> , 21, 403-8	12.6	57
165	Stability and DNA binding of the phd protein of the phage P1 plasmid addiction system. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 2652-7	5.4	57
164	Signal detection by the PhoQ sensor-transmitter. Characterization of the sensor domain and a response-impaired mutant that identifies ligand-binding determinants. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 26630-6	5.4	57
163	Stepwise unfolding of a Ibarrel protein by the AAA+ ClpXP protease. <i>Journal of Molecular Biology</i> , <b>2011</b> , 413, 4-16	6.5	56
162	Nucleotide-dependent substrate recognition by the AAA+ HslUV protease. <i>Nature Structural and Molecular Biology</i> , <b>2005</b> , 12, 245-51	17.6	55
161	Identification of active site residues of the Tsp protease. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 288	6 <del>≰</del> 1zβ	55
160	Lambda repressor: a model system for understanding protein-DNA interactions and protein stability. <i>Advances in Protein Chemistry</i> , <b>1990</b> , 40, 1-61		55
159	Covalent attachment of Arc repressor subunits by a peptide linker enhances affinity for operator DNA. <i>Biochemistry</i> , <b>1996</b> , 35, 109-16	3.2	54
158	Signal integration by DegS and RseB governs the σ E-mediated envelope stress response in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 2106-11	11.5	53
157	Bipartite determinants mediate an evolutionarily conserved interaction between Cdc48 and the 20S peptidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 3327-32	11.5	52

### (2008-2004)

156	Effects of local protein stability and the geometric position of the substrate degradation tag on the efficiency of ClpXP denaturation and degradation. <i>Journal of Structural Biology</i> , <b>2004</b> , 146, 130-40	3.4	52
155	Bivalent tethering of SspB to ClpXP is required for efficient substrate delivery: a protein-design study. <i>Molecular Cell</i> , <b>2004</b> , 13, 443-9	17.6	52
154	Dimerization of the operator binding domain of phage lambda repressor. <i>Biochemistry</i> , <b>1987</b> , 26, 897-9	04.2	52
153	Dynamic and static components power unfolding in topologically closed rings of a AAA+ proteolytic machine. <i>Nature Structural and Molecular Biology</i> , <b>2012</b> , 19, 616-22	17.6	51
152	Characterization of the N-terminal repeat domain of Escherichia coli ClpA-A class I Clp/HSP100 ATPase. <i>Protein Science</i> , <b>2001</b> , 10, 551-9	6.3	51
151	Assembly of the Arc repressor-operator complex: cooperative interactions between DNA-bound dimers. <i>Biochemistry</i> , <b>1993</b> , 32, 1354-63	3.2	51
150	The ClpS adaptor mediates staged delivery of N-end rule substrates to the AAA+ ClpAP protease. <i>Molecular Cell</i> , <b>2011</b> , 43, 217-28	17.6	50
149	Polypeptide translocation by the AAA+ ClpXP protease machine. <i>Chemistry and Biology</i> , <b>2009</b> , 16, 605-1	2	50
148	TraY proteins of F and related episomes are members of the Arc and Mnt repressor family. <i>Journal of Molecular Biology</i> , <b>1990</b> , 211, 5-6	6.5	50
147	Phage lambda repressor revertants. Amino acid substitutions that restore activity to mutant proteins. <i>Journal of Molecular Biology</i> , <b>1985</b> , 186, 53-63	6.5	50
146	Structures of the ATP-fueled ClpXP proteolytic machine bound to protein substrate. <i>ELife</i> , <b>2020</b> , 9,	8.9	50
145	Coordinated gripping of substrate by subunits of a AAA+ proteolytic machine. <i>Nature Chemical Biology</i> , <b>2015</b> , 11, 201-6	11.7	49
144	Architecture and assembly of the archaeal Cdc48*20S proteasome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E1687-94	11.5	49
143	The IbpA and IbpB small heat-shock proteins are substrates of the AAA+ Lon protease. <i>Molecular Microbiology</i> , <b>2010</b> , 75, 1539-49	4.1	49
142	Energy-dependent degradation: Linkage between ClpX-catalyzed nucleotide hydrolysis and protein-substrate processing. <i>Protein Science</i> , <b>2003</b> , 12, 893-902	6.3	49
141	The Doc toxin and Phd antidote proteins of the bacteriophage P1 plasmid addiction system form a heterotrimeric complex. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 16813-8	5.4	49
140	Cage assembly of DegP protease is not required for substrate-dependent regulation of proteolytic activity or high-temperature cell survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 7263-8	11.5	48
139	Evolution of the ssrA degradation tag in Mycoplasma: specificity switch to a different protease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 16113-8	11.5	48

138	Ribosomal protein S1 binds mRNA and tmRNA similarly but plays distinct roles in translation of these molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 13454-9	11.5	48
137	Acceleration of the refolding of Arc repressor by nucleic acids and other polyanions. <i>Nature Structural Biology</i> , <b>1999</b> , 6, 569-73		48
136	Analysis of DNA-protein interactions by affinity coelectrophoresis. <i>Methods in Enzymology</i> , <b>1991</b> , 208, 196-210	1.7	48
135	Distinct quaternary structures of the AAA+ Lon protease control substrate degradation.  Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2002-8	11.5	47
134	Molecular basis of substrate selection by the N-end rule adaptor protein ClpS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 8888-93	11.5	47
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