

Marina Rodnina

List of Publications by Year in descending order

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236
papers

18,370
citations

10070

75
h-index

19470

122
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256
all docs

256
docs citations

256
times ranked

10792
citing authors

#	ARTICLE	IF	CITATIONS
1	A switch from α -helical to β -strand conformation during co-translational protein folding. EMBO Journal, 2022, 41, e109175.	3.5	21
2	Tissue-specific regulation of translational readthrough tunes functions of the traffic jam transcription factor. Nucleic Acids Research, 2022, 50, 6001-6019.	6.5	6
3	Conformational rearrangements upon start codon recognition in human 48S translation initiation complex. Nucleic Acids Research, 2022, 50, 5282-5298.	6.5	15
4	Cotranslational Biogenesis of Membrane Proteins in Bacteria. Frontiers in Molecular Biosciences, 2022, 9, 871121.	1.6	3
5	Mutagenic Analysis of the HIV Restriction Factor Shiftless. Viruses, 2022, 14, 1454.	1.5	3
6	Yeast translation elongation factor eEF3 promotes late stages of tRNA translocation. EMBO Journal, 2021, 40, e106449.	3.5	19
7	Ribosome-bound Get4/5 facilitates the capture of tail-anchored proteins by Sgt2 in yeast. Nature Communications, 2021, 12, 782.	5.8	14
8	Translation error clusters induced by aminoglycoside antibiotics. Nature Communications, 2021, 12, 1830.	5.8	40
9	Lateral gate dynamics of the bacterial translocon during cotranslational membrane protein insertion. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	14
10	Perturbation of ribosomal subunit dynamics by inhibitors of tRNA translocation. Rna, 2021, 27, 981-990.	1.6	8
11	Long-range allostery mediates cooperative adenine nucleotide binding by the Ski2-like RNA helicase Brr2. Journal of Biological Chemistry, 2021, 297, 100829.	1.6	3
12	Structural mechanism of GTPase-powered ribosome-tRNA movement. Nature Communications, 2021, 12, 5933.	5.8	33
13	Kinetic control of nascent protein biogenesis by peptide deformylase. Scientific Reports, 2021, 11, 24457.	1.6	6
14	Translational recoding: canonical translation mechanisms reinterpreted. Nucleic Acids Research, 2020, 48, 1056-1067.	6.5	61
15	Dual function of GTPBP6 in biogenesis and recycling of human mitochondrial ribosomes. Nucleic Acids Research, 2020, 48, 12929-12942.	6.5	33
16	Mechanism of ribosome rescue by alternative ribosome-rescue factor B. Nature Communications, 2020, 11, 4106.	5.8	26
17	Polysomes Bypass a 50-Nucleotide Coding Gap Less Efficiently Than Monosomes Due to Attenuation of a 5' mRNA Stem-Loop and Enhanced Drop-off. Journal of Molecular Biology, 2020, 432, 4369-4387.	2.0	5
18	Cotranslational Folding of Proteins on the Ribosome. Biomolecules, 2020, 10, 97.	1.8	71

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19	Co-translational insertion and topogenesis of bacterial membrane proteins monitored in real time. <i>EMBO Journal</i> , 2020, 39, e104054.	3.5	17
20	Translational Control by Ribosome Pausing in Bacteria: How a Non-uniform Pace of Translation Affects Protein Production and Folding. <i>Frontiers in Microbiology</i> , 2020, 11, 619430.	1.5	53
21	Gradual compaction of the nascent peptide during cotranslational folding on the ribosome. <i>ELife</i> , 2020, 9, .	2.8	36
22	Cotranslational Folding of Protein Domains on the Ribosome. <i>Biophysical Journal</i> , 2020, 118, 319a.	0.2	0
23	Thermodynamic control of +1 programmed ribosomal frameshifting. <i>Nature Communications</i> , 2019, 10, 4598.	5.8	34
24	Converting GTP hydrolysis into motion: versatile translational elongation factor G. <i>Biological Chemistry</i> , 2019, 401, 131-142.	1.2	41
25	Mechanisms and biomedical implications of +1 programmed ribosome frameshifting on viral and bacterial mRNAs. <i>FEBS Letters</i> , 2019, 593, 1468-1482.	1.3	43
26	EF-G-induced ribosome sliding along the noncoding mRNA. <i>Science Advances</i> , 2019, 5, eaaw9049.	4.7	12
27	Broad range of missense error frequencies in cellular proteins. <i>Nucleic Acids Research</i> , 2019, 47, 2932-2945.	6.5	27
28	Modulation of HIV-1 Gag/Gag-Pol frameshifting by tRNA abundance. <i>Nucleic Acids Research</i> , 2019, 47, 5210-5222.	6.5	35
29	Monitoring Dynamics of Protein Nascent Chain on the Ribosome using PET-FCS. <i>Biophysical Journal</i> , 2019, 116, 189a-190a.	0.2	1
30	Active role of elongation factor G in maintaining the mRNA reading frame during translation. <i>Science Advances</i> , 2019, 5, eaax8030.	4.7	38
31	Translation in Prokaryotes. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a032664.	2.3	186
32	Translation initiation in bacterial polysomes through ribosome loading on a standby site on a highly translated mRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4411-4416.	3.3	30
33	Visualization of translation termination intermediates trapped by the Apidaecin ¹³⁷ peptide during RF3-mediated recycling of RF1. <i>Nature Communications</i> , 2018, 9, 3053.	5.8	48
34	Co-Translational Folding Trajectory of the HemK Helical Domain. <i>Biochemistry</i> , 2018, 57, 3460-3464.	1.2	31
35	Decomposition of time-dependent fluorescence signals reveals codon-specific kinetics of protein synthesis. <i>Nucleic Acids Research</i> , 2018, 46, e130-e130.	6.5	8
36	Functions of unconventional mammalian translational GTPases GTPBP1 and GTPBP2. <i>Genes and Development</i> , 2018, 32, 1226-1241.	2.7	25

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37	Small synthetic molecule-stabilized RNA pseudoknot as an activator for +1 ribosomal frameshifting. <i>Nucleic Acids Research</i> , 2018, 46, 8079-8089.	6.5	24
38	Dynamics of ribosomes and release factors during translation termination in <i>E. coli</i> . <i>ELife</i> , 2018, 7, .	2.8	38
39	Ribosome dynamics during decoding. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160182.	1.8	76
40	Conditional Switch between Frameshifting Regimes upon Translation of <i>dnaX</i> mRNA. <i>Molecular Cell</i> , 2017, 66, 558-567.e4.	4.5	41
41	Ribosome rearrangements at the onset of translational bypassing. <i>Science Advances</i> , 2017, 3, e1700147.	4.7	31
42	Thio-Modification of tRNA at the Wobble Position as Regulator of the Kinetics of Decoding and Translocation on the Ribosome. <i>Journal of the American Chemical Society</i> , 2017, 139, 5857-5864.	6.6	66
43	Co-translational protein folding: progress and methods. <i>Current Opinion in Structural Biology</i> , 2017, 42, 83-89.	2.6	98
44	Non-canonical Binding Site for Bacterial Initiation Factor 3 on the Large Ribosomal Subunit. <i>Cell Reports</i> , 2017, 20, 3113-3122.	2.9	14
45	Structural Basis for Polyproline-Mediated Ribosome Stalling and Rescue by the Translation Elongation Factor EF-P. <i>Molecular Cell</i> , 2017, 68, 515-527.e6.	4.5	118
46	Effect of Fusidic Acid on the Kinetics of Molecular Motions During EF-G-Induced Translocation on the Ribosome. <i>Scientific Reports</i> , 2017, 7, 10536.	1.6	18
47	An antimicrobial peptide that inhibits translation by trapping release factors on the ribosome. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 752-757.	3.6	123
48	Signal recognition particle binds to translating ribosomes before emergence of a signal anchor sequence. <i>Nucleic Acids Research</i> , 2017, 45, 11858-11866.	6.5	30
49	Protein Elongation, Co-translational Folding and Targeting. <i>Journal of Molecular Biology</i> , 2016, 428, 2165-2185.	2.0	64
50	Kinetics of Spontaneous and EF-G-Accelerated Rotation of Ribosomal Subunits. <i>Cell Reports</i> , 2016, 16, 2187-2196.	2.9	52
51	Review: Translational GTPases. <i>Biopolymers</i> , 2016, 105, 463-475.	1.2	73
52	<scp>NSUN</scp> 3 and <scp>ABH</scp> 1 modify the wobble position of mtâ€œ <scp>RNA</scp> ^{Met} to expand codon recognition in mitochondrial translation. <i>EMBO Journal</i> , 2016, 35, 2104-2119.	3.5	197
53	Essential structural elements in tRNA ^{Pro} for EF-P-mediated alleviation of translation stalling. <i>Nature Communications</i> , 2016, 7, 11657.	5.8	68
54	The pathway to GTPase activation of elongation factor SelB on the ribosome. <i>Nature</i> , 2016, 540, 80-85.	13.7	93

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55	Translocation as continuous movement through the ribosome. <i>RNA Biology</i> , 2016, 13, 1197-1203.	1.5	24
56	The ribosome in action: Tuning of translational efficiency and protein folding. <i>Protein Science</i> , 2016, 25, 1390-1406.	3.1	154
57	Choreography of molecular movements during ribosome progression along mRNA. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 342-348.	3.6	77
58	Synonymous Codons Direct Cotranslational Folding toward Different Protein Conformations. <i>Molecular Cell</i> , 2016, 61, 341-351.	4.5	297
59	tRNA wobble modifications and protein homeostasis. <i>Translation</i> , 2016, 4, e1143076.	2.9	52
60	Structure of the E. coli ribosomeâ€EF-Tu complex at <3Å... resolution by Cs-corrected cryo-EM. <i>Nature</i> , 2015, 520, 567-570.	13.7	338
61	Major reorientation of tRNA substrates defines specificity of dihydrouridine synthases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6033-6037.	3.3	38
62	Changed in translation: mRNA recoding by âˆ’1 programmed ribosomal frameshifting. <i>Trends in Biochemical Sciences</i> , 2015, 40, 265-274.	3.7	105
63	Fluctuations between multiple EF-G-induced chimeric tRNA states during translocation on the ribosome. <i>Nature Communications</i> , 2015, 6, 7442.	5.8	55
64	Activities of the peptidyl transferase center of ribosomes lacking protein L27. <i>Rna</i> , 2015, 21, 2047-2052.	1.6	17
65	Partitioning between recoding and termination at a stop codonâ€selenocysteine insertion sequence. <i>Nucleic Acids Research</i> , 2015, 43, 6426-6438.	6.5	20
66	Directional transition from initiation to elongation in bacterial translation. <i>Nucleic Acids Research</i> , 2015, 43, 10700-10712.	6.5	41
67	Entropic Contribution of Elongation Factor P to Proline Positioning at the Catalytic Center of the Ribosome. <i>Journal of the American Chemical Society</i> , 2015, 137, 12997-13006.	6.6	88
68	Cotranslational protein folding on the ribosome monitored in real time. <i>Science</i> , 2015, 350, 1104-1107.	6.0	178
69	Deducing the Kinetics of Protein Synthesis In Vivo from the Transition Rates Measured In Vitro. <i>PLoS Computational Biology</i> , 2014, 10, e1003909.	1.5	45
70	Ribosome-induced tuning of GTP hydrolysis by a translational GTPase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14418-14423.	3.3	43
71	Lateral opening of the bacterial translocon on ribosome binding and signal peptide insertion. <i>Nature Communications</i> , 2014, 5, 5263.	5.8	48
72	REGULATING RIBOSOME PAUSING DURING TRANSLATION. , 2014, , .		0

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73	GTP hydrolysis by EF-G synchronizes tRNA movement on small and large ribosomal subunits. <i>EMBO Journal</i> , 2014, 33, 1073-1085.	3.5	81
74	Amicoumacin A Inhibits Translation by Stabilizing mRNA Interaction with the Ribosome. <i>Molecular Cell</i> , 2014, 56, 531-540.	4.5	73
75	Timing of GTP binding and hydrolysis by translation termination factor RF3. <i>Nucleic Acids Research</i> , 2014, 42, 1812-1820.	6.5	28
76	High-efficiency translational bypassing of non-coding nucleotides specified by mRNA structure and nascent peptide. <i>Nature Communications</i> , 2014, 5, 4459.	5.8	28
77	Structural basis for the inhibition of the eukaryotic ribosome. <i>Nature</i> , 2014, 513, 517-522.	13.7	434
78	Synchronous tRNA movements during translocation on the ribosome are orchestrated by elongation factor G and GTP hydrolysis. <i>BioEssays</i> , 2014, 36, 908-918.	1.2	25
79	Programmed +1 Frameshifting by Kinetic Partitioning during Impeded Translocation. <i>Cell</i> , 2014, 157, 1619-1631.	13.5	143
80	Elongation factor P: Function and effects on bacterial fitness. <i>Biopolymers</i> , 2013, 99, 837-845.	1.2	24
81	Energy barriers and driving forces in tRNA translocation through the ribosome. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1390-1396.	3.6	150
82	A Kinetic Safety Gate Controlling the Delivery of Unnatural Amino Acids to the Ribosome. <i>Journal of the American Chemical Society</i> , 2013, 135, 17031-17038.	6.6	53
83	tRNA tK ^{UUU} , tQ ^{UUG} , and tE ^{UUC} wobble position modifications fine-tune protein translation by promoting ribosome A-site binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12289-12294.	3.3	138
84	Evolution of the protein stoichiometry in the L12 stalk of bacterial and organellar ribosomes. <i>Nature Communications</i> , 2013, 4, 1387.	5.8	32
85	EF-P Is Essential for Rapid Synthesis of Proteins Containing Consecutive Proline Residues. <i>Science</i> , 2013, 339, 85-88.	6.0	418
86	Translocation of tRNAs through the Ribosome followed by Single Molecule FRET. <i>Biophysical Journal</i> , 2013, 104, 258a.	0.2	0
87	The ribosome as a versatile catalyst: reactions at the peptidyl transferase center. <i>Current Opinion in Structural Biology</i> , 2013, 23, 595-602.	2.6	53
88	Dual use of GTP hydrolysis by elongation factor G on the ribosome. <i>Translation</i> , 2013, 1, e24315.	2.9	62
89	Translocation in Action. <i>Science</i> , 2013, 340, 1534-1535.	6.0	3
90	Impact of methylations of m2G966/m5C967 in 16S rRNA on bacterial fitness and translation initiation. <i>Nucleic Acids Research</i> , 2012, 40, 7885-7895.	6.5	55

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91	Ribosome clearance by FusB-type proteins mediates resistance to the antibiotic fusidic acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2102-2107.	3.3	36
92	Quality control of mRNA decoding on the bacterial ribosome. <i>Advances in Protein Chemistry and Structural Biology</i> , 2012, 86, 95-128.	1.0	39
93	Thermodynamics of the GTP-GDP-operated Conformational Switch of Selenocysteine-specific Translation Factor SelB. <i>Journal of Biological Chemistry</i> , 2012, 287, 27906-27912.	1.6	22
94	Real-time assembly landscape of bacterial 30S translation initiation complex. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 609-615.	3.6	88
95	Dynamic switch of the signal recognition particle from scanning to targeting. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 1332-1337.	3.6	65
96	Rapid Kinetic Analysis of Protein Synthesis. , 2012, , 119-139.		0
97	Kinetic control of translation initiation in bacteria. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2012, 47, 334-348.	2.3	95
98	Different substrate-dependent transition states in the active site of the ribosome. <i>FASEB Journal</i> , 2012, 26, 544.1.	0.2	0
99	Single Molecule FRET Studies of Protein Conformational Landscapes: 3 Prototypic Examples for the Relation Between Conformational Dynamics and Function. <i>Biophysical Journal</i> , 2011, 100, 474a-475a.	0.2	2
100	The ribosome as a molecular machine: the mechanism of tRNA-mRNA movement in translocation. <i>Biochemical Society Transactions</i> , 2011, 39, 658-662.	1.6	111
101	Different substrate-dependent transition states in the active site of the ribosome. <i>Nature</i> , 2011, 476, 351-354.	13.7	77
102	Distortion of tRNA upon Near-cognate Codon Recognition on the Ribosome. <i>Journal of Biological Chemistry</i> , 2011, 286, 8158-8164.	1.6	18
103	Evolutionary optimization of speed and accuracy of decoding on the ribosome. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 2979-2986.	1.8	120
104	The Cryo-EM Structure of a Complete 30S Translation Initiation Complex from <i>Escherichia coli</i> . <i>PLoS Biology</i> , 2011, 9, e1001095.	2.6	102
105	Mechanisms of decoding and peptide bond formation. , 2011, , 199-212.		6
106	Functions of elongation factor G in translocation and ribosome recycling. , 2011, , 329-338.		8
107	Aminoacyl-tRNA-Charged Eukaryotic Elongation Factor 1A Is the Bona Fide Substrate for <i>Legionella pneumophila</i> Effector Glucosyltransferases. <i>PLoS ONE</i> , 2011, 6, e29525.	1.1	25
108	The ribosome goes Nobel. <i>Trends in Biochemical Sciences</i> , 2010, 35, 1-5.	3.7	6

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109	Optimization of speed and accuracy of decoding in translation. <i>EMBO Journal</i> , 2010, 29, 3701-3709.	3.5	94
110	The ribosome-bound initiation factor 2 recruits initiator tRNA to the 30S initiation complex. <i>EMBO Reports</i> , 2010, 11, 312-316.	2.0	86
111	Protein synthesis meets ABC ATPases: new roles for Rli1/ABCE1. <i>EMBO Reports</i> , 2010, 11, 143-144.	2.0	11
112	Ribosome dynamics and tRNA movement by time-resolved electron cryomicroscopy. <i>Nature</i> , 2010, 466, 329-333.	13.7	400
113	Mutations at the accommodation gate of the ribosome impair RF2-dependent translation termination. <i>Rna</i> , 2010, 16, 1848-1853.	1.6	23
114	Thermodynamic and Kinetic Framework of Selenocysteyl-tRNA ^{Sec} Recognition by Elongation Factor SelB. <i>Journal of Biological Chemistry</i> , 2010, 285, 3014-3020.	1.6	38
115	The crystal structure of unmodified tRNA Phe from <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2010, 38, 4154-4162.	6.5	85
116	The dynamic view of the ribosome in translocation. <i>FASEB Journal</i> , 2010, 24, 79.1.	0.2	0
117	Conformation of the signal recognition particle in ribosomal targeting complexes. <i>Rna</i> , 2009, 15, 44-54.	1.6	20
118	Visualizing the protein synthesis machinery: New focus on the translational GTPase elongation factor Tu. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 969-970.	3.3	6
119	Distinct functions of elongation factor G in ribosome recycling and translocation. <i>Rna</i> , 2009, 15, 772-780.	1.6	117
120	Recent mechanistic insights into eukaryotic ribosomes. <i>Current Opinion in Cell Biology</i> , 2009, 21, 435-443.	2.6	115
121	Long-range signalling in activation of the translational GTPase EF-Tu. <i>EMBO Journal</i> , 2009, 28, 619-620.	3.5	4
122	An Uncharged Amine in the Transition State of the Ribosomal Peptidyl Transfer Reaction. <i>Chemistry and Biology</i> , 2008, 15, 493-500.	6.2	44
123	Signal sequence-independent membrane targeting of ribosomes containing short nascent peptides within the exit tunnel. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 494-499.	3.6	157
124	Colicin E3 cleavage of 16S rRNA impairs decoding and accelerates tRNA translocation on <i>Escherichia coli</i> ribosomes. <i>Molecular Microbiology</i> , 2008, 69, 390-401.	1.2	36
125	Kinetic Checkpoint at a Late Step in Translation Initiation. <i>Molecular Cell</i> , 2008, 30, 712-720.	4.5	115
126	Conservation of Bacterial Protein Synthesis Machinery: Initiation and Elongation in <i>Mycobacterium smegmatis</i> . <i>Biochemistry</i> , 2008, 47, 8828-8839.	1.2	22

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127	Modulation of the Rate of Peptidyl Transfer on the Ribosome by the Nature of Substrates. <i>Journal of Biological Chemistry</i> , 2008, 283, 32229-32235.	1.6	141
128	Structure of ratcheted ribosomes with tRNAs in hybrid states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16924-16927.	3.3	161
129	Kinetics of the Interactions between Yeast Elongation Factors 1A and 1B [±] , Guanine Nucleotides, and Aminoacyl-tRNA. <i>Journal of Biological Chemistry</i> , 2007, 282, 35629-35637.	1.6	34
130	Towards understanding selenocysteine incorporation into bacterial proteins. <i>Biological Chemistry</i> , 2007, 388, 1061-1067.	1.2	16
131	Colicins and their potential in cancer treatment. <i>Blood Cells, Molecules, and Diseases</i> , 2007, 38, 15-18.	0.6	29
132	Codon Reading by tRNA ^{Ala} with Modified Uridine in the Wobble Position. <i>Molecular Cell</i> , 2007, 25, 167-174.	4.5	61
133	The Ribosomal Peptidyl Transferase. <i>Molecular Cell</i> , 2007, 26, 311-321.	4.5	148
134	Mechanism of EF-Ts-Catalyzed Guanine Nucleotide Exchange in EF-Tu: Contribution of Interactions Mediated by Helix B of EF-Tu. <i>Biochemistry</i> , 2007, 46, 4977-4984.	1.2	19
135	Transient Kinetics, Fluorescence, and FRET in Studies of Initiation of Translation in Bacteria. <i>Methods in Enzymology</i> , 2007, 430, 1-30.	0.4	110
136	Importance of tRNA interactions with 23S rRNA for peptide bond formation on the ribosome: studies with substrate analogs. <i>Biological Chemistry</i> , 2007, 388, 687-91.	1.2	20
137	Spontaneous reverse movement of mRNA-bound tRNA through the ribosome. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 318-324.	3.6	87
138	How ribosomes make peptide bonds. <i>Trends in Biochemical Sciences</i> , 2007, 32, 20-26.	3.7	131
139	Mechanism of peptide bond formation on the ribosome. <i>Quarterly Reviews of Biophysics</i> , 2006, 39, 203-225.	2.4	50
140	Kinetic Analysis of Interaction of Eukaryotic Release Factor 3 with Guanine Nucleotides. <i>Journal of Biological Chemistry</i> , 2006, 281, 40224-40235.	1.6	70
141	Delayed Release of Inorganic Phosphate from Elongation Factor Tu Following GTP Hydrolysis on the Ribosome. <i>Biochemistry</i> , 2006, 45, 12767-12774.	1.2	62
142	The ribosome's response to "codon-anticodon mismatches. <i>Biochimie</i> , 2006, 88, 1001-1011.	1.3	73
143	A Uniform Response to Mismatches in Codon-Anticodon Complexes Ensures Ribosomal Fidelity. <i>Molecular Cell</i> , 2006, 21, 369-377.	4.5	142
144	Peptide bond formation does not involve acid-base catalysis by ribosomal residues. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 423-428.	3.6	109

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145	Rapid peptide bond formation on isolated 50S ribosomal subunits. <i>EMBO Reports</i> , 2006, 7, 699-703.	2.0	48
146	Single-step purification of specific tRNAs by hydrophobic tagging. <i>Analytical Biochemistry</i> , 2006, 356, 148-150.	1.1	20
147	Involvement of Helix 34 of 16 S rRNA in Decoding and Translocation on the Ribosome. <i>Journal of Biological Chemistry</i> , 2006, 281, 35235-35244.	1.6	13
148	The nucleotide-binding site of bacterial translation initiation factor 2 (IF2) as a metabolic sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13962-13967.	3.3	155
149	The Importance of P-loop and Domain Movements in EF-Tu for Guanine Nucleotide Exchange. <i>Journal of Biological Chemistry</i> , 2006, 281, 21139-21146.	1.6	16
150	Role and timing of GTP binding and hydrolysis during EF-G-dependent tRNA translocation on the ribosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13670-13675.	3.3	113
151	Ten remarks on peptide bond formation on the ribosome. <i>Biochemical Society Transactions</i> , 2005, 33, 493-498.	1.6	15
152	Control of phosphate release from elongation factor G by ribosomal protein L7/12. <i>EMBO Journal</i> , 2005, 24, 4316-4323.	3.5	105
153	GTPases of the Translation Apparatus. <i>Molecular Biology</i> , 2005, 39, 646-660.	0.4	12
154	Conformation of 4.5S RNA in the signal recognition particle and on the 30S ribosomal subunit. <i>Rna</i> , 2005, 11, 1374-1384.	1.6	25
155	Essential Mechanisms in the Catalysis of Peptide Bond Formation on the Ribosome. <i>Journal of Biological Chemistry</i> , 2005, 280, 36065-36072.	1.6	77
156	Domain rearrangement of SRP protein Ffh upon binding 4.5S RNA and the SRP receptor FtsY. <i>Rna</i> , 2005, 11, 947-957.	1.6	38
157	Structural and Functional Investigation of a Putative Archaeal Selenocysteine Synthase. <i>Biochemistry</i> , 2005, 44, 13315-13327.	1.2	297
158	Conformations of the Signal Recognition Particle Protein Ffh from <i>Escherichia coli</i> as Determined by FRET. <i>Journal of Molecular Biology</i> , 2005, 351, 417-430.	2.0	30
159	Sequence of Steps in Ribosome Recycling as Defined by Kinetic Analysis. <i>Molecular Cell</i> , 2005, 18, 403-412.	4.5	137
160	Structural Basis for the Function of the Ribosomal L7/12 Stalk in Factor Binding and GTPase Activation. <i>Cell</i> , 2005, 121, 991-1004.	13.5	354
161	Recognition and selection of tRNA in translation. <i>FEBS Letters</i> , 2005, 579, 938-942.	1.3	137
162	The ribosome as an entropy trap. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7897-7901.	3.3	311

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163	Trigger factor binds to ribosome-signal-recognition particle (SRP) complexes and is excluded by binding of the SRP receptor. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7902-7906.	3.3	77
164	Exploration of the conserved A+C wobble pair within the ribosomal peptidyl transferase center using affinity purified mutant ribosomes. Nucleic Acids Research, 2004, 32, 3760-3770.	6.5	47
165	Purine bases at position 37 of tRNA stabilize codon-anticodon interaction in the ribosomal A site by stacking and Mg ²⁺ -dependent interactions. Rna, 2004, 10, 90-101.	1.6	106
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