Marat M Yusupov

List of Publications by Year
in descending order

97 papers	10,440 citations	70961 41 h-index	45213 90 g-index
99 all docs	99 docs citations	99 times ranked	7941 citing authors

#	Article	IF	Citations
1	E-site drug specificity of the human pathogen <i>Candida albicans</i> ribosome. Science Advances, 2022, 8, .	4.7	10
2	Is RsfS a Hibernation Factor or a Ribosome Biogenesis Factor?. Biochemistry (Moscow), 2022, 87, 500-510.	0.7	1
3	Inhibition of the Eukaryotic 80S Ribosome as a Potential Anticancer Therapy: A Structural Perspective. Cancers, 2021, 13, 4392.	1.7	4
4	A Path to the Atomic-Resolution Structures of Prokaryotic and Eukaryotic Ribosomes. Biochemistry (Moscow), 2021, 86, 926-941.	0.7	3
5	Stabilization of Ribosomal RNA of the Small Subunit by Spermidine in Staphylococcus aureus. Frontiers in Molecular Biosciences, 2021, 8, 738752.	1.6	7
6	Accuracy mechanism of eukaryotic ribosome translocation. Nature, 2021, 600, 543-546.	13.7	26
7	Dimerization of long hibernation promoting factor from Staphylococcus aureus: Structural analysis and biochemical characterization. Journal of Structural Biology, 2020, 209, 107408.	1.3	4
8	Cryoâ€EM structure of the ribosome functional complex of the human pathogen <i>StaphylococcusÂ aureus</i> at 3.2ÂÃ… resolution. FEBS Letters, 2020, 594, 3551-3567.	1.3	14
9	NMR and crystallographic structural studies of the Elongation factor P from Staphylococcus aureus. European Biophysics Journal, 2020, 49, 223-230.	1.2	2
10	Mechanism of ribosome shutdown by RsfS in Staphylococcus aureus revealed by integrative structural biology approach. Nature Communications, 2020, 11, 1656.	5.8	30
11	Posttranslational modification of Elongation Factor P from StaphylococcusÂ aureus. FEBS Open Bio, 2020, 10, 1342-1347.	1.0	2
12	Elongation Factor P: New Mechanisms of Function and an Evolutionary Diversity of Translation Regulation. Molecular Biology, 2019, 53, 501-512.	0.4	3
13	Importance of potassium ions for ribosome structure and function revealed by long-wavelength X-ray diffraction. Nature Communications, 2019, 10, 2519.	5.8	124
14	Solution structure of the N-terminal domain of the Staphylococcus aureus hibernation promoting factor. Journal of Biomolecular NMR, 2019, 73, 223-227.	1.6	3
15	The multiple flavors of GoU pairs in RNA. Journal of Molecular Recognition, 2019, 32, e2782.	1.1	30
16	Structural dynamics of a spinlabeled ribosome elongation factor P (EF-P) from Staphylococcus aureus by EPR spectroscopy. SN Applied Sciences, 2019, 1, 1.	1.5	3
17	Understanding the role of intermolecular interactions between lissoclimides and the eukaryotic ribosome. Nucleic Acids Research, 2019, 47, 3223-3232.	6.5	15
18	Backbone and side chain NMR assignments for the ribosome binding factor A (RbfA) from Staphylococcus aureus. Biomolecular NMR Assignments, 2019, 13, 27-30.	0.4	3

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19	The Amaryllidaceae Alkaloid Haemanthamine Binds the Eukaryotic Ribosome to Repress Cancer Cell Growth. Structure, 2018, 26, 416-425.e4.	1.6	51
20	NMR assignments of the N-terminal domain of Staphylococcus aureus hibernation promoting factor (SaHPF). Biomolecular NMR Assignments, 2018, 12, 85-89.	0.4	5
21	Cryo-EM structure of the hibernating Thermus thermophilus 100S ribosome reveals a protein-mediated dimerization mechanism. Nature Communications, 2018, 9, 4179.	5.8	34
22	Tautomeric Gâ€¢U pairs within the molecular ribosomal grip and fidelity of decoding in bacteria. Nucleic Acids Research, 2018, 46, 7425-7435.	6.5	29
23	Backbone and side chain NMR assignments for the ribosome Elongation Factor P (EF-P) from Staphylococcus aureus. Biomolecular NMR Assignments, 2018, 12, 351-355.	0.4	4
24	Structural Insights into the Role of Diphthamide on Elongation Factor 2 in mRNA Reading-Frame Maintenance. Journal of Molecular Biology, 2018, 430, 2677-2687.	2.0	38
25	Crystal structure of eukaryotic ribosome and its complexes with inhibitors. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160184.	1.8	34
26	Inhibition of Eukaryotic Translation by the Antitumor Natural Product Agelastatin A. Cell Chemical Biology, 2017, 24, 605-613.e5.	2.5	41
27	Aminoglycoside interactions and impacts on the eukaryotic ribosome. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10899-E10908.	3.3	148
28	Evidence for rRNA 2â€²-O-methylation plasticity: Control of intrinsic translational capabilities of human ribosomes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12934-12939.	3.3	197
29	Structures and dynamics of hibernating ribosomes from <i>Staphylococcus aureus</i> mediated by intermolecular interactions of <scp>HPF</scp>. EMBO Journal, 2017, 36, 2073-2087.	3.5	62
30	Synthesis facilitates an understanding of the structural basis for translation inhibition by the lissoclimides. Nature Chemistry, 2017, 9, 1140-1149.	6.6	36
31	New Structural Insights into Translational Miscoding. Trends in Biochemical Sciences, 2016, 41, 798-814.	3.7	64
32	Molecular insights into protein synthesis with proline residues. EMBO Reports, 2016, 17, 1776-1784.	2.0	73
33	Ribosomes Structure and Mechanisms in Regulation of Protein Synthesis Part I. Journal of Molecular Biology, 2016, 428, 2133.	2.0	0
34	Crystal Structure of Hypusine-Containing Translation Factor eIF5A Bound to a Rotated Eukaryotic Ribosome. Journal of Molecular Biology, 2016, 428, 3570-3576.	2.0	53
35	The ribosome prohibits the Gâ€¢U wobble geometry at the first position of the codonâ€“anticodon helix. Nucleic Acids Research, 2016, 44, gkw431.	6.5	59
36	A glimpse on Staphylococcus aureus translation machinery and its control. Molecular Biology, 2016, 50, 477-488.	0.4	5

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37	Editorial. Journal of Molecular Biology, 2016, 428, 3557.	2.0	0
38	Amicoumacin A induces cancer cell death by targeting the eukaryotic ribosome. Scientific Reports, 2016, 6, 27720.	1.6	42
39	Structure of the 70S ribosome from human pathogen<i>Staphylococcus aureus</i>. Nucleic Acids Research, 2016, 44, gkw933.	6.5	39
40	Novel base-pairing interactions at the tRNA wobble position crucial for accurate reading of the genetic code. Nature Communications, 2016, 7, 10457.	5.8	141
41	Crystal Structures of the uL3 Mutant Ribosome: Illustration of the Importance of Ribosomal Proteins for Translation Efficiency. Journal of Molecular Biology, 2016, 428, 2195-2202.	2.0	17
42	Reconstitution of Functionally Active Thermus thermophilus 30S Ribosomal Subunit from Ribosomal 16S RNA and Ribosomal Proteins. Methods in Molecular Biology, 2016, 1320, 303-314.	0.4	3
43	Structural insights into the translational infidelity mechanism. Nature Communications, 2015, 6, 7251.	5.8	100
44	Insights into the origin of the nuclear localization signals in conserved ribosomal proteins. Nature Communications, 2015, 6, 7382.	5.8	26
45	Ribosome biochemistry in crystal structure determination. Rna, 2015, 21, 771-773.	1.6	14
46	A new system for naming ribosomal proteins. Current Opinion in Structural Biology, 2014, 24, 165-169.	2.6	481
47	High-Resolution Structure of the Eukaryotic 80S Ribosome. Annual Review of Biochemistry, 2014, 83, 467-486.	5.0	110
48	Structural basis for the inhibition of the eukaryotic ribosome. Nature, 2014, 513, 517-522.	13.7	434
49	Recognition of Watson-Crick base pairs: constraints and limits due to geometric selection and tautomerism. F1000prime Reports, 2014, 6, 19.	5.9	47
50	Recent Progress in Ribosome Structure Studies. , 2014, , 23-43.		0
51	Structural basis for potent inhibitory activity of the antibiotic tigecycline during protein synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3812-3816.	3.3	152
52	New structural insights into the decoding mechanism: Translation infidelity via a GÂ·U pair with Watsonâ€“Crick geometry. FEBS Letters, 2013, 587, 1848-1857.	1.3	50
53	Crystal structure of the 80S yeast ribosome. Current Opinion in Structural Biology, 2012, 22, 759-767.	2.6	120
54	A new understanding of the decoding principle on the ribosome. Nature, 2012, 484, 256-259.	13.7	293

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55	One core, two shells: bacterial and eukaryotic ribosomes. Nature Structural and Molecular Biology, 2012, 19, 560-567.	3.6	345
56	X-Ray Analysis of Prokaryotic and Eukaryotic Ribosomes. , 2012, , 1-25.		0
57	The Structure of the Eukaryotic Ribosome at 3.0 Å… Resolution. Science, 2011, 334, 1524-1529.	6.0	1,006
58	Interaction of bacterial ribosomes with mRNA and tRNA as studied by X-ray crystallographic analysis. , 2011, , 45-55.		2
59	Crystal structure of the eukaryotic 80S ribosome. , 2011, , 75-81.		1
60	Interactions of the ribosome with mRNA and tRNA. Current Opinion in Structural Biology, 2010, 20, 325-332.	2.6	45
61	Structural aspects of messenger RNA reading frame maintenance by the ribosome. Nature Structural and Molecular Biology, 2010, 17, 555-560.	3.6	276
62	Structural rearrangements of the ribosome at the tRNA proofreading step. Nature Structural and Molecular Biology, 2010, 17, 1072-1078.	3.6	135
63	Isolation and crystallization of a chimeric QÎ² replicase containing Thermus thermophilus EF-Ts. Biochemistry (Moscow), 2010, 75, 989-994.	0.7	4
64	Crystal Structure of the Eukaryotic Ribosome. Science, 2010, 330, 1203-1209.	6.0	370
65	A structural view of translation initiation in bacteria. Cellular and Molecular Life Sciences, 2009, 66, 423-436.	2.4	123
66	Ribosomal Initiation Complexes Probed by Toeprinting and Effect of trans-Acting Translational Regulators in Bacteria. Methods in Molecular Biology, 2009, 540, 247-263.	0.4	35
67	Ribosomal position and contacts of mRNA in eukaryotic translation initiation complexes. EMBO Journal, 2008, 27, 1609-1621.	3.5	202
68	Structure of the 30S translation initiation complex. Nature, 2008, 455, 416-420.	13.7	194
69	Structured mRNAs Regulate Translation Initiation by Binding to the Platform of the Ribosome. Cell, 2007, 130, 1019-1031.	13.5	129
70	Messenger RNA movement on the ribosome. Molecular Biology, 2007, 41, 240-249.	0.4	0
71	Messenger RNA conformations in the ribosomal E site revealed by Xâ€ray crystallography. EMBO Reports, 2007, 8, 846-850.	2.0	58
72	Structural basis for messenger RNA movement on the ribosome. Nature, 2006, 444, 391-394.	13.7	245

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73	The fidelity of translation initiation: reciprocal activities of eIF1, IF3 and YciH. EMBO Journal, 2006, 25, 196-210.	3.5	105
74	Translational Operator of mRNA on the Ribosome: How Repressor Proteins Exclude Ribosome Binding. Science, 2005, 308, 120-123.	6.0	99
75	Conformational transition of initiation factor 2 from the GTP- to GDP-bound state visualized on the ribosome. Nature Structural and Molecular Biology, 2005, 12, 1145-1149.	3.6	130
76	Bulk-solvent correction in large macromolecular structures. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 1299-1301.	2.5	48
77	Translocation of tRNA during protein synthesis. FEBS Letters, 2002, 514, 11-16.	1.3	128
78	Crystal Structure of the Ribosome at 5.5 A Resolution. Science, 2001, 292, 883-896.	6.0	1,789
79	The Path of Messenger RNA through the Ribosome. Cell, 2001, 106, 233-241.	13.5	554
80	Structure of the Ribosome at 5.5 A Resolution and Its Interactions with Functional Ligands. Cold Spring Harbor Symposia on Quantitative Biology, 2001, 66, 57-66.	2.0	21
81	The location of protein S8 and surrounding elements of 16S rRNA in the 70S ribosome from combined use of directed hydroxyl radical probing and X-ray crystallography. Rna, 2000, 6, 717-729.	1.6	20
82	Crystallization of the dimerization-initiation site of genomic HIV-1 RNA: preliminary crystallographic results. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 281-284.	2.5	1
83	The crystal structure of the dimerization initiation site of genomic HIV-1 RNA reveals an extended duplex with two adenine bulges. Structure, 1999, 7, 1439-1449.	1.6	157
84	X-ray Crystal Structures of 70S Ribosome Functional Complexes. Science, 1999, 285, 2095-2104.	6.0	567
85	Identification of an RNA-Protein Bridge Spanning the Ribosomal Subunit Interface. Science, 1999, 285, 2133-2135.	6.0	82
86	Crystals of Thermus thermophilus tRNAAsp Complexed with its Cognate Aspartyl-tRNA Synthetase Have a Solvent Content of 75%. Comparison with Other Aminoacylation Systems. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 1382-1386.	2.5	3
87	Primer Selection by HIV-1 Reverse Transcriptase on RNA â€“ tRNA3Lysand DNA â€“ tRNA3LysHybrids. Journal of Molecular Biology, 1996, 261, 315-321.	2.0	21
88	Synthesis and ribosome binding properties of model mRNAs modified with undecagold cluster. Bioconjugate Chemistry, 1993, 4, 549-553.	1.8	10
89	Sequence of tRNAAspformThermus thermophilusHB8. Nucleic Acids Research, 1993, 21, 4399-4399.	6.5	20
90	Thermus thermophilus ribosomes for crystallographic studies. Biochimie, 1991, 73, 887-897.	1.3	18

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91	Purification and crystallization of components of the protein-synthesizing system from Thermus thermophilus. Journal of Crystal Growth, 1991, 110, 228-236.	0.7	9
92	Preliminary X-ray investigation of 70 S ribosome crystals from Thermus thermophilus. Journal of Molecular Biology, 1989, 209, 327-328.	2.0	43
93	A new crystalline form of 30 S ribosomal subunits from Thermus thermophilus. FEBS Letters, 1988, 238, 113-115.	1.3	16
94	Crystallization of 70 S ribosomes and 30 S ribosomal subunits from Thermus thermophilus. FEBS Letters, 1987, 220, 319-322.	1.3	86
95	Proteins of theThermus thermophilusribosome Purification of several individual proteins and crystallization of protein TL7. FEBS Letters, 1987, 220, 227-230.	1.3	20
96	Are there proteins between the ribosomal subunits?. FEBS Letters, 1986, 197, 229-233.	1.3	25
97	Studies on the Structure and Function of Ribosomes by Combined Use of Chemical Probing and X-Ray Crystallography. , 0, , 127-150.		1