Anat Bashan

List of Publications by Year
in descending order

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41 papers	4,448 citations	218677 26 h-index	302126 39 g-index
44 all docs	44 docs citations	44 times ranked	3348 citing authors

#	Article	IF	Citations
1	Origin of life: protoribosome forms peptide bonds and links RNA and protein dominated worlds. Nucleic Acids Research, 2022, 50, 1815-1828.	14.5	38
2	Cryo-EM structure of the ancient eukaryotic ribosome from the human parasite Giardia lamblia. Nucleic Acids Research, 2022, 50, 1770-1782.	14.5	9
3	Structural Studies Reveal the Role of Helix 68 in the Elongation Step of Protein Biosynthesis. MBio, 2022, 13, e0030622.	4.1	6
4	Mutations in RPS19 may affect ribosome function and biogenesis in Diamond Blackfan anemia. FEBS Open Bio, 2022, 12, 1419-1434.	2.3	2
5	Ribosome-binding and anti-microbial studies of the mycinamicins, 16-membered macrolide antibiotics from Micromonospora griseorubida. Nucleic Acids Research, 2021, 49, 9560-9573.	14.5	8
6	Rational prioritization strategy allows the design of macrolide derivatives that overcome antibiotic resistance. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2113632118.	7.1	7
7	Origin of Life: Chiral Short RNA Chains Capable of Nonâ€Enzymatic Peptide Bond Formation. Israel Journal of Chemistry, 2021, 61, 863-872.	2.3	7
8	Cryo-EM structure of the highly atypical cytoplasmic ribosome of Euglena gracilis. Nucleic Acids Research, 2020, 48, 11750-11761.	14.5	19
9	Exit tunnel modulation as resistance mechanism of S. aureus erythromycin resistant mutant. Scientific Reports, 2019, 9, 11460.	3.3	36
10	Structure of Pseudomonas aeruginosa ribosomes from an aminoglycoside-resistant clinical isolate. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22275-22281.	7.1	29
11	Stress response as implemented by hibernating ribosomes: a structural overview. FEBS Journal, 2019, 286, 3558-3565.	4.7	31
12	Structural Basis for Linezolid Binding Site Rearrangement in the Staphylococcus aureus Ribosome. MBio, 2017, 8, .	4.1	37
13	The cryo-EM structure of hibernating 100S ribosome dimer from pathogenic Staphylococcus aureus. Nature Communications, 2017, 8, 723.	12.8	69
14	Structural insights of lincosamides targeting the ribosome of Staphylococcus aureus. Nucleic Acids Research, 2017, 45, 10284-10292.	14.5	50
15	Atomic resolution snapshot of Leishmania ribosome inhibition by the aminoglycoside paromomycin. Nature Communications, 2017, 8, 1589.	12.8	66
16	The Ribosomal Protein uL22 Modulates the Shape of the Protein Exit Tunnel. Structure, 2017, 25, 1233-1241.e3.	3.3	17
17	A Bright Future for Antibiotics?. Annual Review of Biochemistry, 2017, 86, 567-583.	11.1	33
18	Ribosomal Antibiotics: Contemporary Challenges. Antibiotics, 2016, 5, 24.	3.7	8

#	Article	IF	Citations
19	A novel pleuromutilin antibacterial compound, its binding mode and selectivity mechanism. Scientific Reports, 2016, 6, 39004.	3.3	86
20	2.8-Ã... Cryo-EM Structure of the Large Ribosomal Subunit from the Eukaryotic Parasite Leishmania. Cell Reports, 2016, 16, 288-294.	6.4	60
21	The fluctuating ribosome: thermal molecular dynamics characterized by neutron scattering. Scientific Reports, 2016, 6, 37138.	3.3	12
22	Avilamycin and evernimicin induce structural changes in rProteins uL16 and CTC that enhance the inhibition of A-site tRNA binding. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6796-E6805.	7.1	21
23	Structural insights into species-specific features of the ribosome from the pathogen Staphylococcus aureus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5805-14.	7.1	114
24	Protoribosome by quantum kernel energy method. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14900-14905.	7.1	39
25	Crystal structure of the synergistic antibiotic pair, lankamycin and lankacidin, in complex with the large ribosomal subunit. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2717-2722.	7.1	56
26	A vestige of a prebiotic bonding machine is functioning within the contemporary ribosome. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 2972-2978.	4.0	51
27	The linkage between ribosomal crystallography, metal ions, heteropolytungstates and functional flexibility. Journal of Molecular Structure, 2008, 890, 289-294.	3.6	49
28	Correlating ribosome function with high-resolution structures. Trends in Microbiology, 2008, 16, 326-335.	7.7	69
29	On Ribosome Conservation and Evolution. Israel Journal of Ecology and Evolution, 2006, 52, 359-374.	0.6	50
30	Symmetry at the active site of the ribosome: structural and functional implications. Biological Chemistry, 2005, 386, 833-844.	2.5	105
31	Ribosomal Crystallography: Initiation, Peptide Bond Formation, and Amino Acid Polymerization are Hampered by Antibiotics. Annual Review of Microbiology, 2004, 58, 233-251.	7.3	60
32	Functional aspects of ribosomal architecture: symmetry, chirality and regulation. Journal of Physical Organic Chemistry, 2004, 17, 901-912.	1.9	39
33	Ribosomal crystallography: a flexible nucleotide anchoring tRNA translocation, facilitates peptide-bond formation, chirality discrimination and antibiotics synergism. FEBS Letters, 2004, 567, 20-26.	2.8	36
34	Ribosomal crystallography: Peptide bond formation and its inhibition. Biopolymers, 2003, 70, 19-41.	2.4	41
35	On peptide bond formation, translocation, nascent protein progression and the regulatory properties of ribosomes. Delivered on 20 October 2002 at the 28th FEBS Meeting in Istanbul. FEBS Journal, 2003, 270, 2543-2556.	0.2	60
36	Structural Basis of the Ribosomal Machinery for Peptide Bond Formation, Translocation, and Nascent Chain Progression. Molecular Cell, 2003, 11, 91-102.	9.7	285

#	Article	IF	Citations
37	High Resolution Structure of the Large Ribosomal Subunit from a Mesophilic Eubacterium. Cell, 2001, 107, 679-688.	28.9	853
38	Structural basis for the interaction of antibiotics with the peptidyl transferase centre in eubacteria. Nature, 2001, 413, 814-821.	27.8	943
39	Structure of Functionally Activated Small Ribosomal Subunit at 3.3 Ã... Resolution. Cell, 2000, 102, 615-623.	28.9	925
40	Identification of the prebiotic translation apparatus within the contemporary ribosome. Nature Precedings, 0, , .	0.1	19
41	Identification of Selected Ribosomal Components in Crystallographic Maps of Prokaryotic Ribosomal Subunits at Medium Resolution. , 0, , 21-33.		2