

Anat Bashan

List of Publications by Year in descending order

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41
papers

4,448
citations

218677

26
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302126

39
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44
all docs

44
docs citations

44
times ranked

3348
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis for the interaction of antibiotics with the peptidyl transferase centre in eubacteria. <i>Nature</i> , 2001, 413, 814-821.	27.8	943
2	Structure of Functionally Activated Small Ribosomal Subunit at 3.3 Å... Resolution. <i>Cell</i> , 2000, 102, 615-623.	28.9	925
3	High Resolution Structure of the Large Ribosomal Subunit from a Mesophilic Eubacterium. <i>Cell</i> , 2001, 107, 679-688.	28.9	853
4	Structural Basis of the Ribosomal Machinery for Peptide Bond Formation, Translocation, and Nascent Chain Progression. <i>Molecular Cell</i> , 2003, 11, 91-102.	9.7	285
5	Structural insights into species-specific features of the ribosome from the pathogen <i>Staphylococcus aureus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5805-14.	7.1	114
6	Symmetry at the active site of the ribosome: structural and functional implications. <i>Biological Chemistry</i> , 2005, 386, 833-844.	2.5	105
7	A novel pleuromutilin antibacterial compound, its binding mode and selectivity mechanism. <i>Scientific Reports</i> , 2016, 6, 39004.	3.3	86
8	Correlating ribosome function with high-resolution structures. <i>Trends in Microbiology</i> , 2008, 16, 326-335.	7.7	69
9	The cryo-EM structure of hibernating 100S ribosome dimer from pathogenic <i>Staphylococcus aureus</i> . <i>Nature Communications</i> , 2017, 8, 723.	12.8	69
10	Atomic resolution snapshot of <i>Leishmania</i> ribosome inhibition by the aminoglycoside paromomycin. <i>Nature Communications</i> , 2017, 8, 1589.	12.8	66
11	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. <i>FEBS Journal</i> , 2003, 270, 2543-2556.	0.2	60
12	Ribosomal Crystallography: Initiation, Peptide Bond Formation, and Amino Acid Polymerization are Hampered by Antibiotics. <i>Annual Review of Microbiology</i> , 2004, 58, 233-251.	7.3	60
13	2.8-Å... Cryo-EM Structure of the Large Ribosomal Subunit from the Eukaryotic Parasite <i>Leishmania</i> . <i>Cell Reports</i> , 2016, 16, 288-294.	6.4	60
14	Crystal structure of the synergistic antibiotic pair, lankamycin and lankacidin, in complex with the large ribosomal subunit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2717-2722.	7.1	56
15	A vestige of a prebiotic bonding machine is functioning within the contemporary ribosome. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 2972-2978.	4.0	51
16	On Ribosome Conservation and Evolution. <i>Israel Journal of Ecology and Evolution</i> , 2006, 52, 359-374.	0.6	50
17	Structural insights of lincosamides targeting the ribosome of <i>Staphylococcus aureus</i> . <i>Nucleic Acids Research</i> , 2017, 45, 10284-10292.	14.5	50
18	The linkage between ribosomal crystallography, metal ions, heteropolytungstates and functional flexibility. <i>Journal of Molecular Structure</i> , 2008, 890, 289-294.	3.6	49

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19	Ribosomal crystallography: Peptide bond formation and its inhibition. <i>Biopolymers</i> , 2003, 70, 19-41.	2.4	41
20	Functional aspects of ribosomal architecture: symmetry, chirality and regulation. <i>Journal of Physical Organic Chemistry</i> , 2004, 17, 901-912.	1.9	39
21	Protoribosome by quantum kernel energy method. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14900-14905.	7.1	39
22	Origin of life: protoribosome forms peptide bonds and links RNA and protein dominated worlds. <i>Nucleic Acids Research</i> , 2022, 50, 1815-1828.	14.5	38
23	Structural Basis for Linezolid Binding Site Rearrangement in the <i>Staphylococcus aureus</i> Ribosome. <i>MBio</i> , 2017, 8, .	4.1	37
24	Ribosomal crystallography: a flexible nucleotide anchoring tRNA translocation, facilitates peptide-bond formation, chirality discrimination and antibiotics synergism. <i>FEBS Letters</i> , 2004, 567, 20-26.	2.8	36
25	Exit tunnel modulation as resistance mechanism of <i>S. aureus</i> erythromycin resistant mutant. <i>Scientific Reports</i> , 2019, 9, 11460.	3.3	36
26	A Bright Future for Antibiotics?. <i>Annual Review of Biochemistry</i> , 2017, 86, 567-583.	11.1	33
27	Stress response as implemented by hibernating ribosomes: a structural overview. <i>FEBS Journal</i> , 2019, 286, 3558-3565.	4.7	31
28	Structure of <i>Pseudomonas aeruginosa</i> ribosomes from an aminoglycoside-resistant clinical isolate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22275-22281.	7.1	29
29	Avilamycin and evernimicin induce structural changes in rProteins uL16 and CTC that enhance the inhibition of A-site tRNA binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6796-E6805.	7.1	21
30	Identification of the prebiotic translation apparatus within the contemporary ribosome. <i>Nature Precedings</i> , 0, , .	0.1	19
31	Cryo-EM structure of the highly atypical cytoplasmic ribosome of <i>Euglena gracilis</i> . <i>Nucleic Acids Research</i> , 2020, 48, 11750-11761.	14.5	19
32	The Ribosomal Protein uL22 Modulates the Shape of the Protein Exit Tunnel. <i>Structure</i> , 2017, 25, 1233-1241.e3.	3.3	17
33	The fluctuating ribosome: thermal molecular dynamics characterized by neutron scattering. <i>Scientific Reports</i> , 2016, 6, 37138.	3.3	12
34	Cryo-EM structure of the ancient eukaryotic ribosome from the human parasite <i>Giardia lamblia</i> . <i>Nucleic Acids Research</i> , 2022, 50, 1770-1782.	14.5	9
35	Ribosomal Antibiotics: Contemporary Challenges. <i>Antibiotics</i> , 2016, 5, 24.	3.7	8
36	Ribosome-binding and anti-microbial studies of the mycinamicins, 16-membered macrolide antibiotics from <i>Micromonospora griseorubida</i> . <i>Nucleic Acids Research</i> , 2021, 49, 9560-9573.	14.5	8

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37	Rational prioritization strategy allows the design of macrolide derivatives that overcome antibiotic resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2113632118.	7.1	7
38	Origin of Life: Chiral Short RNA Chains Capable of Non-Enzymatic Peptide Bond Formation. <i>Israel Journal of Chemistry</i> , 2021, 61, 863-872.	2.3	7
39	Structural Studies Reveal the Role of Helix 68 in the Elongation Step of Protein Biosynthesis. <i>MBio</i> , 2022, 13, e0030622.	4.1	6
40	Identification of Selected Ribosomal Components in Crystallographic Maps of Prokaryotic Ribosomal Subunits at Medium Resolution. , 0, , 21-33.		2
41	Mutations in <i>RPS19</i> may affect ribosome function and biogenesis in Diamond Blackfan anemia. <i>FEBS Open Bio</i> , 2022, 12, 1419-1434.	2.3	2