

Yury S Polikanov

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50 papers	1,882 citations	25 h-index	43 g-index
56 ext. papers	2,551 ext. citations	13.8 avg, IF	4.98 L-index

#	Paper	IF	Citations
50	Nucleosomes can form a polar barrier to transcript elongation by RNA polymerase II. <i>Molecular Cell</i> , 2006 , 24, 469-79	17.6	201
49	Structural insights into the role of rRNA modifications in protein synthesis and ribosome assembly. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 342-344	17.6	148
48	How hibernation factors RMF, HPF, and YfiA turn off protein synthesis. <i>Science</i> , 2012 , 336, 915-8	33.3	145
47	A proton wire to couple aminoacyl-tRNA accommodation and peptide-bond formation on the ribosome. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 787-93	17.6	127
46	Ribosome-Targeting Antibiotics: Modes of Action, Mechanisms of Resistance, and Implications for Drug Design. <i>Annual Review of Biochemistry</i> , 2018 , 87, 451-478	29.1	98
45	Structural and evolutionary insights into ribosomal RNA methylation. <i>Nature Chemical Biology</i> , 2018 , 14, 226-235	11.7	87
44	Distant activation of transcription: mechanisms of enhancer action. <i>Molecular and Cellular Biology</i> , 2012 , 32, 4892-7	4.8	84
43	Odilorhabdins, Antibacterial Agents that Cause Miscoding by Binding at a New Ribosomal Site. <i>Molecular Cell</i> , 2018 , 70, 83-94.e7	17.6	58
42	Amicoumacin a inhibits translation by stabilizing mRNA interaction with the ribosome. <i>Molecular Cell</i> , 2014 , 56, 531-40	17.6	58
41	Distinct tRNA Accommodation Intermediates Observed on the Ribosome with the Antibiotics Hygromycin A and A201A. <i>Molecular Cell</i> , 2015 , 58, 832-44	17.6	57
40	Insights into RNA binding by the anticancer drug cisplatin from the crystal structure of cisplatin-modified ribosome. <i>Nucleic Acids Research</i> , 2016 , 44, 4978-87	20.1	50
39	Pseudouridylation of mRNA coding sequences alters translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23068-23074	11.5	50
38	The Mechanisms of Action of Ribosome-Targeting Peptide Antibiotics. <i>Frontiers in Molecular Biosciences</i> , 2018 , 5, 48	5.6	49
37	Internucleosomal interactions mediated by histone tails allow distant communication in chromatin. <i>Journal of Biological Chemistry</i> , 2012 , 287, 20248-57	5.4	43
36	In vitro activity of apramycin against multidrug-, carbapenem- and aminoglycoside-resistant Enterobacteriaceae and Acinetobacter baumannii. <i>Journal of Antimicrobial Chemotherapy</i> , 2019 , 74, 944-952	5.1	40
35	Negamycin interferes with decoding and translocation by simultaneous interaction with rRNA and tRNA. <i>Molecular Cell</i> , 2014 , 56, 541-50	17.6	38
34	Chromatin structure can strongly facilitate enhancer action over a distance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 17690-5	11.5	36

33	Structures of the orthosomycin antibiotics avilamycin and evernimicin in complex with the bacterial 70S ribosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7527-32	11.5	33
32	Design, Multigram Synthesis, and in Vitro and in Vivo Evaluation of Propylamycin: A Semisynthetic 4,5-Deoxystreptamine Class Aminoglycoside for the Treatment of Drug-Resistant Enterobacteriaceae and Other Gram-Negative Pathogens. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5051-5061	16.4	32
31	Klebsazolicin inhibits 70S ribosome by obstructing the peptide exit tunnel. <i>Nature Chemical Biology</i> , 2017 , 13, 1129-1136	11.7	32
30	High-resolution crystal structures of ribosome-bound chloramphenicol and erythromycin provide the ultimate basis for their competition. <i>Rna</i> , 2019 , 25, 600-606	5.8	30
29	The antibiotics dityromycin and GE82832 bind protein S12 and block EF-G-catalyzed translocation. <i>Cell Reports</i> , 2014 , 6, 357-65	10.6	30
28	Probability of the site juxtaposition determines the rate of protein-mediated DNA looping. <i>Biophysical Journal</i> , 2007 , 93, 2726-31	2.9	30
27	Binding and Action of Amino Acid Analogs of Chloramphenicol upon the Bacterial Ribosome. <i>Journal of Molecular Biology</i> , 2018 , 430, 842-852	6.5	28
26	Co-produced natural ketolides methymycin and pikromycin inhibit bacterial growth by preventing synthesis of a limited number of proteins. <i>Nucleic Acids Research</i> , 2017 , 45, 9573-9582	20.1	25
25	Nucleosome-free DNA regions differentially affect distant communication in chromatin. <i>Nucleic Acids Research</i> , 2017 , 45, 3059-3067	20.1	22
24	Structure of ribosome-bound azole-modified peptide phazolicin rationalizes its species-specific mode of bacterial translation inhibition. <i>Nature Communications</i> , 2019 , 10, 4563	17.4	22
23	Structure of Erm-modified 70S ribosome reveals the mechanism of macrolide resistance. <i>Nature Chemical Biology</i> , 2021 , 17, 412-420	11.7	21
22	A nucleotide-switch mechanism mediates opposing catalytic activities of Rel enzymes. <i>Nature Chemical Biology</i> , 2020 , 16, 834-840	11.7	20
21	Madumycin II inhibits peptide bond formation by forcing the peptidyl transferase center into an inactive state. <i>Nucleic Acids Research</i> , 2017 , 45, 7507-7514	20.1	18
20	Mechanistic insights into the slow peptide bond formation with D-amino acids in the ribosomal active site. <i>Nucleic Acids Research</i> , 2019 , 47, 2089-2100	20.1	18
19	A synthetic antibiotic class overcoming bacterial multidrug resistance. <i>Nature</i> , 2021 , 599, 507-512	50.4	18
18	Sarecycline interferes with tRNA accommodation and tethers mRNA to the 70S ribosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 20530-20537	11.5	17
17	Tetracenomycin X inhibits translation by binding within the ribosomal exit tunnel. <i>Nature Chemical Biology</i> , 2020 , 16, 1071-1077	11.7	14
16	Biochemical analysis of enhancer-promoter communication in chromatin. <i>Methods</i> , 2007 , 41, 250-8	4.6	14

15	Two transmembrane dimers of the bovine papillomavirus E5 oncoprotein clamp the PDGF α receptor in an active dimeric conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7262-E7271	11.5	13
14	Elements of ribosomal drug resistance and specificity. <i>Current Opinion in Structural Biology</i> , 2012 , 22, 750-8	8.1	13
13	Acoustic vibrations contribute to the diffuse scatter produced by ribosome crystals. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 2021-31		11
12	Peptide Inhibitors of Bacterial Protein Synthesis with Broad Spectrum and SbmA-Independent Bactericidal Activity against Clinical Pathogens. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 9590-9602	8.3	11
11	Structure of Dirithromycin Bound to the Bacterial Ribosome Suggests New Ways for Rational Improvement of Macrolides. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	8
10	Analysis of distant communication on defined chromatin templates in vitro. <i>Methods in Molecular Biology</i> , 2009 , 543, 563-76	1.4	8
9	Insights into the improved macrolide inhibitory activity from the high-resolution cryo-EM structure of dirithromycin bound to the 70S ribosome. <i>Rna</i> , 2020 , 26, 715-723	5.8	6
8	A selective antibiotic for Lyme disease. <i>Cell</i> , 2021 , 184, 5405-5418.e16	56.2	4
7	Nucleotide-mediated allosteric regulation of bifunctional Rel enzymes		4
6	Binding and Action of Triphenylphosphonium Analog of Chloramphenicol upon the Bacterial Ribosome. <i>Antibiotics</i> , 2021 , 10,	4.9	4
5	Structural basis for the context-specific action of the classic peptidyl transferase inhibitor chloramphenicol.. <i>Nature Structural and Molecular Biology</i> , 2022 ,	17.6	3
4	A Synthetic Antibiotic Scaffold Effective Against Multidrug-Resistant Bacterial Pathogens		2
3	The Odilorhabdin Antibiotic Biosynthetic Cluster and Acetyltransferase Self-Resistance Locus Are Niche and Species Specific.. <i>MBio</i> , 2022 , e0282621	7.8	1
2	Phazolicin $\mathbf{1b}$ Novel Thiazole/Oxazole-Modified Peptide Inhibiting the Bacterial Ribosome in a Species-Specific Way		1
1	The Role of Release Factors in the Hydrolysis of Ester Bond in Peptidyl-tRNA. <i>Biochemistry (Moscow)</i> , 2021 , 86, 1122-1127	2.9	