

# Sergey V Melnikov

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

2,425  
citations

471509

17  
h-index

677142

22  
g-index

27  
all docs

27  
docs citations

27  
times ranked

3406  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptation to genome decay in the structure of the smallest eukaryotic ribosome. <i>Nature Communications</i> , 2022, 13, 591.	12.8	22
2	Bacterial translation machinery for deliberate mistranslation of the genetic code. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9
3	Archaeal Ribosomal Proteins Possess Nuclear Localization Signal-Type Motifs: Implications for the Origin of the Cell Nucleus. <i>Molecular Biology and Evolution</i> , 2020, 37, 124-133.	8.9	17
4	Exploiting evolutionary trade-offs for posttreatment management of drug-resistant populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17924-17931.	7.1	19
5	Aminoacyl-tRNA Synthetases and tRNAs for an Expanded Genetic Code: What Makes them Orthogonal?. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1929.	4.1	25
6	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.	14.5	36
7	Engineered Aminoacyl-tRNA Synthetases with Improved Selectivity toward Noncanonical Amino Acids. <i>ACS Chemical Biology</i> , 2019, 14, 603-612.	3.4	23
8	Revising the Structural Diversity of Ribosomal Proteins Across the Three Domains of Life. <i>Molecular Biology and Evolution</i> , 2018, 35, 1588-1598.	8.9	66
9	Loss of protein synthesis quality control in host-restricted organisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11505-E11512.	7.1	24
10	Muller's Ratchet and Ribosome Degeneration in the Obligate Intracellular Parasites Microsporidia. <i>International Journal of Molecular Sciences</i> , 2018, 19, 4125.	4.1	22
11	Structural Insights into the Role of Diphthamide on Elongation Factor 2 in mRNA Reading-Frame Maintenance. <i>Journal of Molecular Biology</i> , 2018, 430, 2677-2687.	4.2	38
12	Error-prone protein synthesis in parasites with the smallest eukaryotic genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6245-E6253.	7.1	30
13	Molecular insights into protein synthesis with proline residues. <i>EMBO Reports</i> , 2016, 17, 1776-1784.	4.5	73
14	Crystal Structure of Hypusine-Containing Translation Factor eIF5A Bound to a Rotated Eukaryotic Ribosome. <i>Journal of Molecular Biology</i> , 2016, 428, 3570-3576.	4.2	53
15	Insights into RNA binding by the anticancer drug cisplatin from the crystal structure of cisplatin-modified ribosome. <i>Nucleic Acids Research</i> , 2016, 44, 4978-4987.	14.5	69
16	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.	8.2	224
17	Insights into the origin of the nuclear localization signals in conserved ribosomal proteins. <i>Nature Communications</i> , 2015, 6, 7382.	12.8	26
18	Structure of the Eukaryotic Ribosome: Tips and Tricks. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2013, , 313-320.	0.5	1

#	ARTICLE	IF	CITATIONS
19	Crystal structure of the 80S yeast ribosome. <i>Current Opinion in Structural Biology</i> , 2012, 22, 759-767.	5.7	120
20	One core, two shells: bacterial and eukaryotic ribosomes. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 560-567.	8.2	345
21	The Structure of the Eukaryotic Ribosome at 3.0 Å.. Resolution. <i>Science</i> , 2011, 334, 1524-1529.	12.6	1,006
22	Nuclear Oncoprotein Prothymosin $\hat{\pm}$ Is a Partner of Keap1: Implications for Expression of Oxidative Stress-Protecting Genes. <i>Molecular and Cellular Biology</i> , 2005, 25, 1089-1099.	2.3	162