

Vasili Hauryliuk

List of Publications by Year in descending order

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77
papers

4,416
citations

126907

33
h-index

123424

61
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99
all docs

99
docs citations

99
times ranked

4015
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent functional insights into the role of (p)ppGpp in bacterial physiology. <i>Nature Reviews Microbiology</i> , 2015, 13, 298-309.	28.6	703
2	The RelA/SpoT Homolog (RSH) Superfamily: Distribution and Functional Evolution of ppGpp Synthetases and Hydrolases across the Tree of Life. <i>PLoS ONE</i> , 2011, 6, e23479.	2.5	418
3	Single-molecule investigations of the stringent response machinery in living bacterial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E365-73.	7.1	254
4	Reassessing the Role of Type II Toxin-Antitoxin Systems in Formation of <i>Escherichia coli</i> Type II Persister Cells. <i>MBio</i> , 2018, 9, .	4.1	174
5	Splitting of the Posttermination Ribosome into Subunits by the Concerted Action of RRF and EF-G. <i>Molecular Cell</i> , 2005, 18, 675-686.	9.7	132
6	The stringent factor RelA adopts an open conformation on the ribosome to stimulate ppGpp synthesis. <i>Nucleic Acids Research</i> , 2016, 44, 6471-6481.	14.5	129
7	Target protection as a key antibiotic resistance mechanism. <i>Nature Reviews Microbiology</i> , 2020, 18, 637-648.	28.6	100
8	Structure of the Dom34-Hbs1 complex and implications for no-go decay. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 1233-1240.	8.2	98
9	HPLC-based quantification of bacterial housekeeping nucleotides and alarmone messengers ppGpp and pppGpp. <i>Scientific Reports</i> , 2017, 7, 11022.	3.3	97
10	Positive allosteric feedback regulation of the stringent response enzyme RelA by its product. <i>EMBO Reports</i> , 2012, 13, 835-839.	4.5	95
11	Evolution of nonstop, no-go and nonsense-mediated mRNA decay and their termination factor-derived components. <i>BMC Evolutionary Biology</i> , 2008, 8, 290.	3.2	91
12	ABCF ATPases Involved in Protein Synthesis, Ribosome Assembly and Antibiotic Resistance: Structural and Functional Diversification across the Tree of Life. <i>Journal of Molecular Biology</i> , 2019, 431, 3568-3590.	4.2	90
13	From (p)ppGpp to (pp)pGpp: Characterization of Regulatory Effects of pGpp Synthesized by the Small Alarmone Synthetase of <i>Enterococcus faecalis</i> . <i>Journal of Bacteriology</i> , 2015, 197, 2908-2919.	2.2	88
14	Mechanism of tetracycline resistance by ribosomal protection protein Tet(O). <i>Nature Communications</i> , 2013, 4, 1477.	12.8	87
15	Persisters "as elusive as ever". <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6545-6553.	3.6	87
16	A widespread toxin-antitoxin system exploiting growth control via alarmone signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10500-10510.	7.1	81
17	Structural basis for antibiotic resistance mediated by the <i>Bacillus subtilis</i> ABCF ATPase VmlR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8978-8983.	7.1	78
18	Thermodynamic Characterization of ppGpp Binding to EF-G or IF2 and of Initiator tRNA Binding to Free IF2 in the Presence of GDP, GTP, or ppGpp. <i>Journal of Molecular Biology</i> , 2010, 402, 838-846.	4.2	76

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19	Antibiotic resistance ABCF proteins reset the peptidyl transferase centre of the ribosome to counter translational arrest. <i>Nucleic Acids Research</i> , 2018, 46, 3753-3763.	14.5	71
20	Subinhibitory Concentrations of Bacteriostatic Antibiotics Induce <i>relA</i> -Dependent and <i>relA</i> -Independent Tolerance to Î²-Lactams. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	58
21	Guanine-nucleotide exchange on ribosome-bound elongation factor G initiates the translocation of tRNAs. <i>Journal of Biology</i> , 2005, 4, 9.	2.7	56
22	Class-1 release factor eRF1 promotes GTP binding by class-2 release factor eRF3. <i>Biochimie</i> , 2006, 88, 747-757.	2.6	54
23	The ribosomal A-site finger is crucial for binding and activation of the stringent factor RelA. <i>Nucleic Acids Research</i> , 2018, 46, 1973-1983.	14.5	53
24	Mitochondrial translation initiation machinery: Conservation and diversification. <i>Biochimie</i> , 2014, 100, 132-140.	2.6	50
25	Negative allosteric regulation of <i>Enterococcus faecalis</i> small alarmone synthetase RelQ by single-stranded RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3726-3731.	7.1	50
26	Structural basis for (p)ppGpp synthesis by the <i>Staphylococcus aureus</i> small alarmone synthetase RelP. <i>Journal of Biological Chemistry</i> , 2018, 293, 3254-3264.	3.4	46
27	The C-Terminal RRM/ACT Domain Is Crucial for Fine-Tuning the Activation of ϵ -Long RelA-SpoT Homolog Enzymes by Ribosomal Complexes. <i>Frontiers in Microbiology</i> , 2020, 11, 277.	3.5	46
28	Analysis of nucleotide pools in bacteria using HPLC-MS in HILIC mode. <i>Talanta</i> , 2019, 205, 120161.	5.5	44
29	<i>In Vitro</i> Studies of Persister Cells. <i>Microbiology and Molecular Biology Reviews</i> , 2020, 84, .	6.6	42
30	Evolutionary and genetic analyses of mitochondrial translation initiation factors identify the missing mitochondrial IF3 in <i>S. cerevisiae</i> . <i>Nucleic Acids Research</i> , 2012, 40, 6122-6134.	14.5	41
31	Structural Basis for Bacterial Ribosome-Associated Quality Control by RqcH and RqcP. <i>Molecular Cell</i> , 2021, 81, 115-126.e7.	9.7	41
32	Structural basis of ABCF-mediated resistance to pleuromutilin, lincosamide, and streptogramin A antibiotics in Gram-positive pathogens. <i>Nature Communications</i> , 2021, 12, 3577.	12.8	40
33	A nucleotide-switch mechanism mediates opposing catalytic activities of Rel enzymes. <i>Nature Chemical Biology</i> , 2020, 16, 834-840.	8.0	39
34	Fusidic Acid Targets Elongation Factor G in Several Stages of Translocation on the Bacterial Ribosome. <i>Journal of Biological Chemistry</i> , 2015, 290, 3440-3454.	3.4	38
35	Cationic bactericidal peptide 1018 does not specifically target the stringent response alarmone (p)ppGpp. <i>Scientific Reports</i> , 2016, 6, 36549.	3.3	37
36	The pretranslocation ribosome is targeted by GTP-bound EF-G in partially activated form. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15678-15683.	7.1	36

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37	The bacterial toxin RelE induces specific mRNA cleavage in the A site of the eukaryote ribosome. <i>Rna</i> , 2008, 14, 233-239.	3.5	35
38	Cofactor Dependent Conformational Switching of GTPases. <i>Biophysical Journal</i> , 2008, 95, 1704-1715.	0.5	33
39	Single molecule tracking fluorescence microscopy in mitochondria reveals highly dynamic but confined movement of Tom40. <i>Scientific Reports</i> , 2011, 1, 195.	3.3	31
40	GTP-dependent structural rearrangement of the eRF1:eRF3 complex and eRF3 sequence motifs essential for PABP binding. <i>Nucleic Acids Research</i> , 2010, 38, 548-558.	14.5	30
41	Intramolecular Interactions Dominate the Autoregulation of Escherichia coli Stringent Factor RelA. <i>Frontiers in Microbiology</i> , 2019, 10, 1966.	3.5	30
42	Ribosome association primes the stringent factor Rel for tRNA-dependent locking in the A-site and activation of (p)ppGpp synthesis. <i>Nucleic Acids Research</i> , 2021, 49, 444-457.	14.5	29
43	A role for the <i>Saccharomyces cerevisiae</i> ABCF protein New1 in translation termination/recycling. <i>Nucleic Acids Research</i> , 2019, 47, 8807-8820.	14.5	26
44	RelA-SpoT Homolog toxins pyrophosphorylate the CCA end of tRNA to inhibit protein synthesis. <i>Molecular Cell</i> , 2021, 81, 3160-3170.e9.	9.7	26
45	Structural basis for PoxTA-mediated resistance to phenicol and oxazolidinone antibiotics. <i>Nature Communications</i> , 2022, 13, 1860.	12.8	25
46	Thermodynamics of GTP and GDP Binding to Bacterial Initiation Factor 2 Suggests Two Types of Structural Transitions. <i>Journal of Molecular Biology</i> , 2009, 394, 621-626.	4.2	23
47	A hyperpromiscuous antitoxin protein domain for the neutralization of diverse toxin domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	22
48	Aim-less translation: loss of <i>Saccharomyces cerevisiae</i> mitochondrial translation initiation factor mIF3/Aim23 leads to unbalanced protein synthesis. <i>Scientific Reports</i> , 2016, 6, 18749.	3.3	21
49	Molecular mutagenesis of ppGpp: turning a RelA activator into an inhibitor. <i>Scientific Reports</i> , 2017, 7, 41839.	3.3	21
50	<i>Photorhabdus</i> antibacterial Rhs polymorphic toxin inhibits translation through ADP-ribosylation of 23S ribosomal RNA. <i>Nucleic Acids Research</i> , 2021, 49, 8384-8395.	14.5	21
51	(p)ppGpp controls stringent factors by exploiting antagonistic allosteric coupling between catalytic domains. <i>Molecular Cell</i> , 2021, 81, 3310-3322.e6.	9.7	21
52	Composition of the outgrowth medium modulates wake-up kinetics and ampicillin sensitivity of stringent and relaxed <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2016, 6, 22308.	3.3	18
53	Ribosome profiling analysis of eEF3-depleted <i>Saccharomyces cerevisiae</i> . <i>Scientific Reports</i> , 2019, 9, 3037.	3.3	18
54	Auxotrophy-based High Throughput Screening assay for the identification of <i>Bacillus subtilis</i> stringent response inhibitors. <i>Scientific Reports</i> , 2016, 6, 35824.	3.3	17

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55	Small Alarmone Synthetases as novel bacterial RNA-binding proteins. <i>RNA Biology</i> , 2017, 14, 1695-1699.	3.1	17
56	Sal-type ABC-F proteins: intrinsic and common mediators of pleuromutilin resistance by target protection in staphylococci. <i>Nucleic Acids Research</i> , 2022, 50, 2128-2142.	14.5	16
57	Expression of <i>Bacillus subtilis</i> ABCF antibiotic resistance factor VmlR is regulated by RNA polymerase pausing, transcription attenuation, translation attenuation and (p)ppGpp. <i>Nucleic Acids Research</i> , 2022, 50, 6174-6189.	14.5	15
58	The Rel stringent factor from <i>Thermus thermophilus</i> : crystallization and X-ray analysis. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 561-569.	0.8	14
59	Protein biosynthesis in mitochondria. <i>Biochemistry (Moscow)</i> , 2013, 78, 855-866.	1.5	13
60	GTPases of the prokaryotic translation apparatus. <i>Molecular Biology</i> , 2006, 40, 688-701.	1.3	12
61	An ancient family of SelB elongation factor-like proteins with a broad but disjunct distribution across archaea. <i>BMC Evolutionary Biology</i> , 2011, 11, 22.	3.2	12
62	GTPases IF2 and EF-G bind GDP and the SRL RNA in a mutually exclusive manner. <i>Scientific Reports</i> , 2012, 2, 843.	3.3	11
63	RqcH and RqcP catalyze processive poly-alanine synthesis in a reconstituted ribosome-associated quality control system. <i>Nucleic Acids Research</i> , 2021, 49, 8355-8369.	14.5	11
64	Elimination of Ribosome Inactivating Factors Improves the Efficiency of <i>Bacillus subtilis</i> and <i>Saccharomyces cerevisiae</i> Cell-Free Translation Systems. <i>Frontiers in Microbiology</i> , 2018, 9, 3041.	3.5	10
65	Reply to Holden and Errington, "Type II Toxin-Antitoxin Systems and Persister Cells". <i>MBio</i> , 2018, 9, .	4.1	10
66	Hfq-Assisted RsmA Regulation Is Central to <i>Pseudomonas aeruginosa</i> Biofilm Polysaccharide PEL Expression. <i>Frontiers in Microbiology</i> , 2020, 11, 482585.	3.5	10
67	Does the ribosome have initiation and elongation modes of translation?. <i>Molecular Microbiology</i> , 2009, 72, 1310-1315.	2.5	9
68	Evaluation of the characteristics of leucyl-tRNA synthetase (LeuRS) inhibitor AN3365 in combination with different antibiotic classes. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2016, 35, 1857-1864.	2.9	9
69	Antibacterial activity of the nitrovinylfuran G1 (Furvina) and its conversion products. <i>Scientific Reports</i> , 2016, 6, 36844.	3.3	9
70	Two-Step Selection of mRNAs in Initiation of Protein Synthesis. <i>Molecular Cell</i> , 2006, 22, 155-156.	9.7	7
71	Reanalysis of Proteomics Results Fails To Detect MazF-Mediated Stress Proteins. <i>MBio</i> , 2019, 10, .	4.1	7
72	An evolutionary ratchet leading to loss of elongation factors in eukaryotes. <i>BMC Evolutionary Biology</i> , 2014, 14, 35.	3.2	6

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73	Synthetic oxepanoprolinamide iboxamycin is active against <i>Listeria monocytogenes</i> despite the intrinsic resistance mediated by VgaL/Lmo0919 ABCF ATPase. JAC-Antimicrobial Resistance, 2022, 4, .	2.1	5
74	Clinically observed deletions in SARS-CoV-2 Nsp1 affect its stability and ability to inhibit translation. FEBS Letters, 2022, 596, 1203-1213.	2.8	3
75	Nonhydrolysable Analogues of (p)ppGpp and (p)ppApp Alarmone Nucleotides as Novel Molecular Tools. ACS Chemical Biology, 2021, 16, 1680-1691.	3.4	2
76	Evolution of translational machinery: Could translation termination come into being before elongation?. Journal of Theoretical Biology, 2007, 248, 574-578.	1.7	0
77	Single Molecule Tracking Inside Individual Living Bacterial Cells. Biophysical Journal, 2010, 98, 587a.	0.5	0