JÃ¼rgen Lassak

List of Publications by Year
in descending order

36 papers	1,923 citations	394421 19 h-index	330143 37 g-index
50 all docs	50 docs citations	50 times ranked	2068 citing authors

#	Article	IF	Citations
1	Translation Elongation Factor EF-P Alleviates Ribosome Stalling at Polyproline Stretches. Science, 2013, 339, 82-85.	12.6	393
2	Distinct XPPX sequence motifs induce ribosome stalling, which is rescued by the translation elongation factor EF-P. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15265-15270.	7.1	167
3	The bacterial translation stress response. FEMS Microbiology Reviews, 2014, 38, 1172-1201.	8.6	165
4	Phage-induced lysis enhances biofilm formation in <i>Shewanella oneidensis</i> MR-1. ISME Journal, 2011, 5, 613-626.	9.8	161
5	Two different stator systems drive a single polar flagellum in <i>Shewanella oneidensis</i> MRâ€1. Molecular Microbiology, 2009, 71, 836-850.	2.5	139
6	ArcS, the Cognate Sensor Kinase in an Atypical Arc System of <i>Shewanella oneidensis</i> MR-1. Applied and Environmental Microbiology, 2010, 76, 3263-3274.	3.1	118
7	Arginine-rhamnosylation as new strategy to activate translation elongation factor P. Nature Chemical Biology, 2015, 11, 266-270.	8.0	116
8	Translational stalling at polyproline stretches is modulated by the sequence context upstream of the stall site. Nucleic Acids Research, 2014, 42, 10711-10719.	14.5	88
9	Stall no more at polyproline stretches with the translation elongation factors EFâ€P and IFâ€5A. Molecular Microbiology, 2016, 99, 219-235.	2.5	70
10	Structure-function analysis of the DNA-binding domain of a transmembrane transcriptional activator. Scientific Reports, 2017, 7, 1051.	3.3	46
11	Bacterial transmembrane signalling systems and their engineering for biosensing. Open Biology, 2018, 8, 180023.	3.6	43
12	A Conserved Proline Triplet in Val-tRNA Synthetase and the Origin of Elongation Factor P. Cell Reports, 2014, 9, 476-483.	6.4	41
13	Structural and Functional Analysis of the Signal-Transducing Linker in the pH-Responsive One-Component System CadC of Escherichia coli. Journal of Molecular Biology, 2015, 427, 2548-2561.	4.2	35
14	A comprehensive toolbox for the rapid construction of lacZ fusion reporters. Journal of Microbiological Methods, 2012, 91, 537-543.	1.6	31
15	Evolutionary analysis of polyproline motifs in Escherichia coli reveals their regulatory role in translation. PLoS Computational Biology, 2018, 14, e1005987.	3.2	31
16	Resolving the Î±-glycosidic linkage of arginine-rhamnosylated translation elongation factor P triggers generation of the first Arg^{Rha} specific antibody. Chemical Science, 2016, 7, 6995-7001.	7.4	30
17	Identification and Initial Characterization of Prophages in Vibrio campbellii. PLoS ONE, 2016, 11, e0156010.	2.5	26
18	Structural Basis for EarP-Mediated Arginine Glycosylation of Translation Elongation Factor EF-P. MBio, 2017, 8, .	4.1	24

#	Article	IF	Citations
19	Cervimycin C resistance in Bacillus subtilis is due to a promoter up-mutation and increased mRNA stability of the constitutive ABC-transporter gene bmrA. FEMS Microbiology Letters, 2010, 313, 155-163.	1.8	22
20	A Versatile Toolbox for the Control of Protein Levels Using <i>N</i>^{Îµ}-Acetyl-<scp>l</scp>-lysine Dependent Amber Suppression. ACS Synthetic Biology, 2017, 6, 1892-1902.	3.8	21
21	Domain Analysis of ArcS, the Hybrid Sensor Kinase of the Shewanella oneidensis MR-1 Arc Two-Component System, Reveals Functional Differentiation of Its Two Receiver Domains. Journal of Bacteriology, 2013, 195, 482-492.	2.2	19
22	Analysis of the BarA/UvrY Two-Component System in Shewanella oneidensis MR-1. PLoS ONE, 2011, 6, e23440.	2.5	16
23	Switching the Post-translational Modification of Translation Elongation Factor EF-P. Frontiers in Microbiology, 2019, 10, 1148.	3.5	16
24	Deciphering the role of the type II glyoxalase isoenzyme YcbL (GlxII-2) in Escherichia coli. FEMS Microbiology Letters, 2015, 362, 1-7.	1.8	15
25	Exceptionally versatile â€“ arginine in bacterial post-translational protein modifications. Biological Chemistry, 2019, 400, 1397-1427.	2.5	15
26	Molecular Design of a Signaling System Influences Noise in Protein Abundance under Acid Stress in Different Gammaproteobacteria. Journal of Bacteriology, 2020, 202, .	2.2	14
27	Proline codon pair selection determines ribosome pausing strength and translation efficiency in bacteria. Communications Biology, 2021, 4, 589.	4.4	13
28	Transcriptional regulation of the <i>N</i>_{Îµ}â€fructoselysine metabolism in <i>Escherichia coli</i> by global and substrateâ€specific cues. Molecular Microbiology, 2021, 115, 175-190.	2.5	10
29	Exceptionally versatile take II: post-translational modifications of lysine and their impact on bacterial physiology. Biological Chemistry, 2022, 403, 819-858.	2.5	7
30	Two RmlC homologs catalyze dTDP-4-keto-6-deoxy-d-glucose epimerization in Pseudomonas putida KT2440. Scientific Reports, 2021, 11, 11991.	3.3	6
31	A set of rhamnosylation-specific antibodies enables detection of novel protein glycosylations in bacteria. Organic and Biomolecular Chemistry, 2020, 18, 6823-6828.	2.8	5
32	Synthetic postâ€translational modifications of elongation factor P using the ligase EpmA. FEBS Journal, 2021, 288, 663-677.	4.7	5
33	A Î²-hairpin epitope as novel structural requirement for protein arginine rhamnosylation. Chemical Science, 2021, 12, 1560-1567.	7.4	4
34	Identification of <i>Pseudomonas asiatica</i> subsp. <i>bavariensis</i> str. <scp>JM1</scp> as the first <i>N</i>_{<i>Îµ</i>}â€carboxy(m)ethyllysineâ€degrading soil bacterium. Environmental Microbiology, 2022, 24, 3229-3241.	3.8	4
35	Highlight: young research groups in GermanyÂâ€“ 3rd edition. Biological Chemistry, 2020, 402, 5-6.	2.5	1
36	Switching the Post-Translational Modification of Elongation Factor P. SSRN Electronic Journal, 0, , .	0.4	0