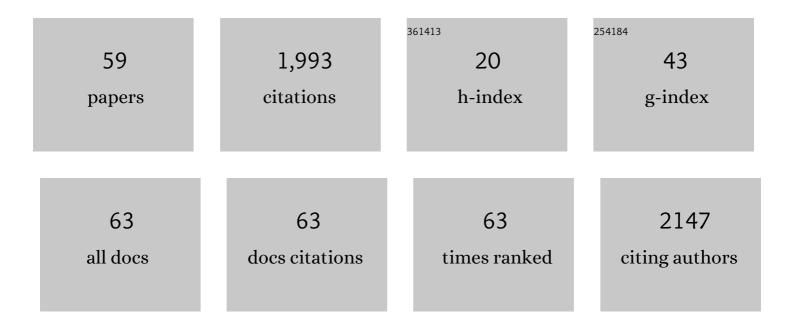
Hans-Joachim Wieden

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Large-Scale Movement of Elongation Factor G and Extensive Conformational Change of the Ribosome during Translocation. Cell, 2000, 100, 301-309.	28.9	294
2	InÂVivo Cleavage Map Illuminates the Central Role of RNase E in Coding and Non-coding RNA Pathways. Molecular Cell, 2017, 65, 39-51.	9.7	250
3	Essential Role of Histidine 84 in Elongation Factor Tu for the Chemical Step of GTP Hydrolysis on the Ribosome. Journal of Molecular Biology, 2003, 332, 689-699.	4.2	137
4	Recognition and selection of tRNA in translation. FEBS Letters, 2005, 579, 938-942.	2.8	137
5	The ABC-F protein EttA gates ribosome entry into the translation elongation cycle. Nature Structural and Molecular Biology, 2014, 21, 143-151.	8.2	109
6	Ribosome interactions of aminoacyl-tRNA and elongation factor Tu in the codon-recognition complex. Nature Structural Biology, 2002, 9, 849-54.	9.7	108
7	Kinetic Mechanism of Elongation Factor Ts-Catalyzed Nucleotide Exchange in Elongation Factor Tuâ€. Biochemistry, 2002, 41, 162-169.	2.5	104
8	Interaction of Helix D of Elongation Factor Tu with Helices 4 and 5 of Protein L7/12 on the Ribosome. Journal of Molecular Biology, 2004, 336, 1011-1021.	4.2	73
9	Loss of m1acp3Î [°] Ribosomal RNA Modification Is a Major Feature of Cancer. Cell Reports, 2020, 31, 107611.	6.4	64
10	sdAb-DB: The Single Domain Antibody Database. ACS Synthetic Biology, 2018, 7, 2480-2484.	3.8	54
11	The conserved GTPase HflX is a ribosome splitting factor that binds to the E-site of the bacterial ribosome. Nucleic Acids Research, 2016, 44, 1952-1961.	14.5	41
12	Mechanism of Elongation Factor (EF)-Ts-catalyzed Nucleotide Exchange in EF-Tu. Journal of Biological Chemistry, 2002, 277, 6032-6036.	3.4	40
13	The Importance of Structural Transitions of the Switch II Region for the Functions of Elongation Factor Tu on the Ribosome. Journal of Biological Chemistry, 2001, 276, 22183-22190.	3.4	33
14	Inactivation of the Elongation Factor Tu by Mosquitocidal Toxin-Catalyzed Mono-ADP-Ribosylation. Applied and Environmental Microbiology, 2002, 68, 4894-4899.	3.1	33
15	Elongation factor-Tu can repetitively engage aminoacyl-tRNA within the ribosome during the proofreading stage of tRNA selection. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3610-3620.	7.1	31
16	Strategies for improving antimicrobial peptide production. Biotechnology Advances, 2022, 59, 107968.	11.7	31
17	Cellular mRNA recruits the ribosome via eIF3-PABP bridge to initiate internal translation. RNA Biology, 2017, 14, 553-567.	3.1	28
18	Toward Understanding the Function of the Universally Conserved GTPase HflX from <i>Escherichia coli</i> : A Kinetic Approach. Biochemistry, 2009, 48, 10793-10802.	2.5	27

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19	The C-terminal helix of ribosomal P stalk recognizes a hydrophobic groove of elongation factor 2 in a novel fashion. Nucleic Acids Research, 2018, 46, 3232-3244.	14.5	27
20	Knowledge Gaps in the Understanding of Antimicrobial Resistance in Canada. Frontiers in Public Health, 2021, 9, 726484.	2.7	26
21	The 70S ribosome modulates the ATPase activity of <i>Escherichia coli</i> YchF. RNA Biology, 2012, 9, 1288-1301.	3.1	22
22	Human DDX17 Unwinds Rift Valley Fever Virus Non-Coding RNAs. International Journal of Molecular Sciences, 2021, 22, 54.	4.1	20
23	A Common Structural Motif in Elongation Factor Ts and Ribosomal Protein L7/12 May Be Involved in the Interaction with Elongation Factor Tu. Journal of Molecular Evolution, 2001, 52, 129-136.	1.8	19
24	The ribosome modulates the structural dynamics of the conserved GTPase HflX and triggers tight nucleotide binding. Biochimie, 2012, 94, 1647-1659.	2.6	19
25	An arginine-aspartate network in the active site of bacterial TruB is critical for catalyzing pseudouridine formation. Nucleic Acids Research, 2014, 42, 3857-3870.	14.5	17
26	The Importance of P-loop and Domain Movements in EF-Tu for Guanine Nucleotide Exchange. Journal of Biological Chemistry, 2006, 281, 21139-21146.	3.4	16
27	Non-coding RNAs: what are we missing?. Biochemistry and Cell Biology, 2020, 98, 23-30.	2.0	16
28	A Combined Molecular Dynamics and Rapid Kinetics Approach to Identify Conserved Three-Dimensional Communication Networks in Elongation Factor Tu. Biophysical Journal, 2010, 99, 3735-3743.	0.5	15
29	Viruses, IRESs, and a universal translation initiation mechanism. Biotechnology and Genetic Engineering Reviews, 2018, 34, 60-75.	6.2	15
30	Construction of a fully active Cys-less elongation factor Tu: Functional role of conserved cysteine 81. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 684-692.	2.3	14
31	Identification of Two Structural Elements Important for Ribosome-Dependent GTPase Activity of Elongation Factor 4 (EF4/LepA). Scientific Reports, 2015, 5, 8573.	3.3	12
32	A conserved P-loop anchor limits the structural dynamics that mediate nucleotide dissociation in EF-Tu. Scientific Reports, 2015, 5, 7677.	3.3	12
33	Taking a Step Back from Back-Translocation: an Integrative View of LepA/EF4's Cellular Function. Molecular and Cellular Biology, 2017, 37, .	2.3	12
34	Substrate Binding in Protein-tyrosine Phosphatase-like Inositol Polyphosphatases*. Journal of Biological Chemistry, 2012, 287, 9722-9730.	3.4	11
35	Engineering bacterial translation initiation — Do we have all the tools we need?. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3060-3069.	2.4	11
36	Rapid generation of sequence-diverse terminator libraries and their parameterization using quantitative Term-Seq. Synthetic Biology, 2019, 4, ysz026.	2.2	11

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37	Elongation Factor Tu Switch I Element is a Gate for Aminoacyl-tRNA Selection. Journal of Molecular Biology, 2020, 432, 3064-3077.	4.2	11
38	Characterization of Fluorescein Arsenical Hairpin (FlAsH) as a Probe for Single-Molecule Fluorescence Spectroscopy. Scientific Reports, 2017, 7, 13063.	3.3	10
39	Histidine 114 Is Critical for ATP Hydrolysis by the Universally Conserved ATPase YchF. Journal of Biological Chemistry, 2015, 290, 18650-18661.	3.4	9
40	Rapid metagenomics analysis of EMS vehicles for monitoring pathogen load using nanopore DNA sequencing. PLoS ONE, 2019, 14, e0219961.	2.5	9
41	The Emergency Medical Service Microbiome. Applied and Environmental Microbiology, 2018, 84, .	3.1	7
42	Cellular roles of the human Obg-like ATPase 1 (hOLA1) and its YchF homologs. Biochemistry and Cell Biology, 2020, 98, 1-11.	2.0	7
43	Tetracycline does not directly inhibit the function of bacterial elongation factor Tu. PLoS ONE, 2017, 12, e0178523.	2.5	7
44	The C-terminal Helix of Pseudomonas aeruginosa Elongation Factor Ts Tunes EF-Tu Dynamics to Modulate Nucleotide Exchange. Journal of Biological Chemistry, 2016, 291, 23136-23148.	3.4	6
45	Streamlined purification of fluorescently labeled Escherichia coli phosphate-binding protein (PhoS) suitable for rapid-kinetics applications. Analytical Biochemistry, 2017, 537, 106-113.	2.4	5
46	Elongation Factor Tu's Nucleotide Binding Is Governed by a Thermodynamic Landscape Unique among Bacterial Translation Factors. Journal of the American Chemical Society, 2019, 141, 10236-10246.	13.7	5
47	Through the looking glass: milestones on the road towards mirroring life. Trends in Biochemical Sciences, 2021, 46, 931-943.	7.5	5
48	A synthetic biology approach to integrative high school STEM training. Nature Biotechnology, 2017, 35, 591-595.	17.5	4
49	Ribosomal Protein S1 Improves the Protein Yield of an <i>In Vitro</i> Reconstituted Cell-Free Translation System. ACS Synthetic Biology, 2022, 11, 1004-1008.	3.8	4
50	Contribution of two conserved histidines to the dual activity of archaeal RNA guide-dependent and -independent pseudouridine synthase Cbf5. Rna, 2015, 21, 1233-1239.	3.5	3
51	Parenting researchers—an invisible divide. EMBO Reports, 2020, 21, e50738.	4.5	3
52	Emerging regulatory challenges of next-generation synthetic biology. Biochemistry and Cell Biology, 2021, 99, 766-771.	2.0	3
53	Introducing a class of standardized and interchangeable parts utilizing programmed ribosomal frameshifts for synthetic biology applications. Translation, 2015, 3, e1112458.	2.9	2
54	Molecular Determinants for 23S rRNA Recognition and Modification by the E. coli Pseudouridine Synthase RluE. Journal of Molecular Biology, 2018, 430, 1284-1294.	4.2	2

#	Article	IF	CITATIONS
55	Construction of a highly selective and sensitive carbohydrate-detecting biosensor utilizing Computational Identification of Non-disruptive Conjugation sites (CINC) for flexible and streamlined biosensor design. Biosensors and Bioelectronics, 2022, 200, 113899.	10.1	2
56	A Quick Primer in Fluorescence-Based and Pre-steady State Methods for Determining Protein–Nucleotide Affinities. Methods in Molecular Biology, 2021, 2263, 273-287.	0.9	0
57	Using Rapid Kinetics and Molecular Dynamics Simulations to Study Biomolecular Information Processing and Design. Biomath Communications, 2016, 3, .	0.5	Ο
58	Development of a Real-Time Pectic Oligosaccharide-Detecting Biosensor Using the Rapid and Flexible Computational Identification of Non-Disruptive Conjugation Sites (CINC) Biosensor Design Platform. Sensors, 2022, 22, 948.	3.8	0
59	Introduction: Dual use in life science research. Biochemistry and Cell Biology, 0, , .	2.0	0