

Lennart Randau

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.

63

papers

2,068

citations

26

h-index

45

g-index

68

ext. papers

2,461

ext. citations

10.7

avg, IF

5.01

L-index

#	Paper	IF	Citations
63	A korarchaeal genome reveals insights into the evolution of the Archaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 8102-7	11.5	214
62	Nanoarchaeum equitans creates functional tRNAs from separate genes for their 5S and 3Shalves. <i>Nature</i> , 2005 , 433, 537-41	50.4	159
61	Life without RNase P. <i>Nature</i> , 2008 , 453, 120-3	50.4	101
60	Characterization of CRISPR RNA processing in Clostridium thermocellum and Methanococcus maripaludis. <i>Nucleic Acids Research</i> , 2012 , 40, 9887-96	20.1	96
59	Characterization of the CRISPR/Cas subtype I-A system of the hyperthermophilic crenarchaeon Thermoproteus tenax. <i>Journal of Bacteriology</i> , 2012 , 194, 2491-500	3.5	90
58	PAM identification by CRISPR-Cas effector complexes: diversified mechanisms and structures. <i>RNA Biology</i> , 2019 , 16, 504-517	4.8	82
57	DNA and RNA interference mechanisms by CRISPR-Cas surveillance complexes. <i>FEMS Microbiology Reviews</i> , 2015 , 39, 442-63	15.1	81
56	Small regulatory RNAs in Archaea. <i>RNA Biology</i> , 2014 , 11, 484-93	4.8	71
55	Transfer RNA genes in pieces. <i>EMBO Reports</i> , 2008 , 9, 623-8	6.5	70
54	The heteromeric Nanoarchaeum equitans splicing endonuclease cleaves noncanonical bulge-helix-bulge motifs of joined tRNA halves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 17934-9	11.5	67
53	Type IV CRISPR-Cas systems are highly diverse and involved in competition between plasmids. <i>Nucleic Acids Research</i> , 2020 , 48, 2000-2012	20.1	57
52	A cytidine deaminase edits C to U in transfer RNAs in Archaea. <i>Science</i> , 2009 , 324, 657-9	33.3	56
51	A complex of Cas proteins 5, 6, and 7 is required for the biogenesis and stability of clustered regularly interspaced short palindromic repeats (crispr)-derived rnas (crrnas) in Haloferax volcanii. <i>Journal of Biological Chemistry</i> , 2014 , 289, 7164-7177	5.4	55
50	RNA processing in the minimal organism Nanoarchaeum equitans. <i>Genome Biology</i> , 2012 , 13, R63	18.3	51
49	The complete set of tRNA species in Nanoarchaeum equitans. <i>FEBS Letters</i> , 2005 , 579, 2945-7	3.8	50
48	Escherichia coli glutamyl-tRNA reductase. Trapping the thioester intermediate. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48657-63	5.4	50
47	In vitro assembly and activity of an archaeal CRISPR-Cas type I-A Cascade interference complex. <i>Nucleic Acids Research</i> , 2014 , 42, 5125-38	20.1	48

46	Type IV CRISPR RNA processing and effector complex formation in <i>Aromatoleum aromaticum</i> . <i>Nature Microbiology</i> , 2019 , 4, 89-96	26.6	46
45	Structural Variation of Type I-F CRISPR RNA Guided DNA Surveillance. <i>Molecular Cell</i> , 2017 , 67, 622-632.e4.6	4.6	43
44	RNA-Seq analyses reveal the order of tRNA processing events and the maturation of C/D box and CRISPR RNAs in the hyperthermophile <i>Methanopyrus kandleri</i> . <i>Nucleic Acids Research</i> , 2013 , 41, 6250-8	20.1	40
43	Modulating the Cascade architecture of a minimal Type I-F CRISPR-Cas system. <i>Nucleic Acids Research</i> , 2016 , 44, 5872-82	20.1	37
42	Small RNAs for defence and regulation in archaea. <i>Extremophiles</i> , 2012 , 16, 685-96	3	35
41	Structure and RNA-binding properties of the type III-A CRISPR-associated protein Csm3. <i>RNA Biology</i> , 2013 , 10, 1670-8	4.8	31
40	C/D box sRNA-guided 2SO-methylation patterns of archaeal rRNA molecules. <i>BMC Genomics</i> , 2015 , 16, 632	4.5	30
39	3S5tRNAHis guanylyltransferase in bacteria. <i>FEBS Letters</i> , 2010 , 584, 3567-72	3.8	28
38	Transfer RNA processing in archaea: unusual pathways and enzymes. <i>FEBS Letters</i> , 2010 , 584, 303-9	3.8	26
37	tRNA recognition by glutamyl-tRNA reductase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 34931-7	5.4	26
36	Exploiting CRISPR/Cas: interference mechanisms and applications. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 14518-31	6.3	24
35	tRNA Modification Profiles and Codon-Decoding Strategies in <i>Methanocaldococcus jannaschii</i> . <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	24
34	Crystal structure and assembly of the functional <i>Nanoarchaeum equitans</i> tRNA splicing endonuclease. <i>Nucleic Acids Research</i> , 2009 , 37, 5793-802	20.1	22
33	Analysis of protein-RNA interactions in CRISPR proteins and effector complexes by UV-induced cross-linking and mass spectrometry. <i>Methods</i> , 2015 , 89, 138-48	4.6	19
32	Comparative analysis of Cas6b processing and CRISPR RNA stability. <i>RNA Biology</i> , 2013 , 10, 700-7	4.8	19
31	Interference activity of a minimal Type I CRISPR-Cas system from <i>Shewanella putrefaciens</i> . <i>Nucleic Acids Research</i> , 2015 , 43, 8913-23	20.1	18
30	A regulatory RNA is involved in RNA duplex formation and biofilm regulation in <i>Sulfolobus acidocaldarius</i> . <i>Nucleic Acids Research</i> , 2018 , 46, 4794-4806	20.1	18
29	Multi-omics Analysis of CRISPRi-Knockdowns Identifies Mechanisms that Buffer Decreases of Enzymes in <i>E. coli</i> Metabolism. <i>Cell Systems</i> , 2021 , 12, 56-67.e6	10.6	18

28	RIP-Seq Suggests Translational Regulation by L7Ae in. <i>MBio</i> , 2017 , 8,	7.8	17
27	Bio-Layer Interferometry Analysis of the Target Binding Activity of CRISPR-Cas Effector Complexes. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 98	5.6	15
26	A Non-Stem-Loop CRISPR RNA Is Processed by Dual Binding Cas6. <i>Structure</i> , 2016 , 24, 547-554	5.2	15
25	RNA-Seq analyses reveal CRISPR RNA processing and regulation patterns. <i>Biochemical Society Transactions</i> , 2013 , 41, 1459-63	5.1	13
24	Selective Enrichment of Slow-Growing Bacteria in a Metabolism-Wide CRISPRi Library with a TIMER Protein. <i>ACS Synthetic Biology</i> , 2018 , 7, 2775-2782	5.7	13
23	Circularization restores signal recognition particle RNA functionality in Thermoproteus. <i>ELife</i> , 2015 , 4,	8.9	12
22	DNA binding properties of the small cascade subunit Csa5. <i>PLoS ONE</i> , 2014 , 9, e105716	3.7	10
21	Plasticity of archaeal C/D box sRNA biogenesis. <i>Molecular Microbiology</i> , 2017 , 103, 151-164	4.1	9
20	Commentary: Type I CRISPR-Cas targets endogenous genes and regulates virulence to evade mammalian host immunity. <i>Frontiers in Microbiology</i> , 2017 , 8, 319	5.7	9
19	Fragmentation of the CRISPR-Cas Type I-B signature protein Cas8b. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 2993-3000	4	7
18	Anti-CRISPR AcrIF9 functions by inducing the CRISPR-Cas complex to bind DNA non-specifically. <i>Nucleic Acids Research</i> , 2021 , 49, 3381-3393	20.1	7
17	Evolution of small guide RNA genes in hyperthermophilic archaea. <i>Annals of the New York Academy of Sciences</i> , 2015 , 1341, 188-93	6.5	6
16	C/D box sRNA, CRISPR RNA and tRNA processing in an archaeon with a minimal fragmented genome. <i>Biochemical Society Transactions</i> , 2013 , 41, 411-5	5.1	5
15	Type IV CRISPR-Cas systems are highly diverse and involved in competition between plasmids		5
14	Noncoding RNAs in Archaea: Genome-Wide Identification and Functional Classification. <i>Methods in Enzymology</i> , 2018 , 612, 413-442	1.7	5
13	Unique Archaeal Small RNAs. <i>Annual Review of Genetics</i> , 2018 , 52, 465-487	14.5	5
12	Small RNA-guided adaptive immunity: comment on "Diversity, evolution, and therapeutic applications of small RNAs in prokaryotic and eukaryotic immune systems" by Cooper and Overstreet. <i>Physics of Life Reviews</i> , 2014 , 11, 139-40; discussion 149-51	2.1	3
11	Response by Lennart Randau & Dieter Sll. <i>EMBO Reports</i> , 2008 , 9, 820-821	6.5	3

10	Conservation of Archaeal C/D Box sRNA-Guided RNA Modifications. <i>Frontiers in Microbiology</i> , 2021 , 12, 654029	5.7	3
9	RNA stabilization in hyperthermophilic archaea. <i>Annals of the New York Academy of Sciences</i> , 2019 , 1447, 88-96	6.5	2
8	Live-cell single-particle tracking photoactivated localization microscopy of Cascade-mediated DNA surveillance. <i>Methods in Enzymology</i> , 2019 , 616, 133-171	1.7	2
7	Archaeal physiology: Two modes of a DNA scissor. <i>Nature Microbiology</i> , 2017 , 2, 17049	26.6	
6	In Vitro Co-reconstitution of Cas Protein Complexes. <i>Methods in Molecular Biology</i> , 2015 , 1311, 23-33	1.4	
5	Thermophile archaea tRNA im Kochtopf. <i>BioSpektrum</i> , 2014 , 20, 615-617	0.1	
4	Features of Aminoacyl-tRNA Synthesis Unique to Archaea 198-208		
3	Evolution of C/D Box sRNAs. <i>Nucleic Acids and Molecular Biology</i> , 2017 , 201-224		
2	Meeting Report: German Genetics Society-Genome Editing with CRISPR. <i>BioEssays</i> , 2020 , 42, e1900223	4.1	
1	Vielfältige Genscheren: natürliche Aktivitäten von CRISPR-Cas-Systemen. <i>BioSpektrum</i> , 2018 , 24, 704-706	0.1	