

Daan C Swarts

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

3,460
citations

393982

19
h-index

552369

26
g-index

29
all docs

29
docs citations

29
times ranked

3004
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Basis for Guide RNA Processing and Seed-Dependent DNA Targeting by CRISPR-Cas12a. <i>Molecular Cell</i> , 2017, 66, 221-233.e4.	4.5	408
2	The evolutionary journey of Argonaute proteins. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 743-753.	3.6	400
3	DNA-guided DNA interference by a prokaryotic Argonaute. <i>Nature</i> , 2014, 507, 258-261.	13.7	373
4	CRISPR Interference Directs Strand Specific Spacer Acquisition. <i>PLoS ONE</i> , 2012, 7, e35888.	1.1	335
5	Mechanistic Insights into the cis- and trans-Acting DNase Activities of Cas12a. <i>Molecular Cell</i> , 2019, 73, 589-600.e4.	4.5	298
6	The CRISPRs, They Are A-Changin': How Prokaryotes Generate Adaptive Immunity. <i>Annual Review of Genetics</i> , 2012, 46, 311-339.	3.2	260
7	Argonaute of the archaeon <i>Pyrococcus furiosus</i> is a DNA-guided nuclease that targets cognate DNA. <i>Nucleic Acids Research</i> , 2015, 43, 5120-5129.	6.5	202
8	Structure-based cleavage mechanism of <i>Thermus thermophilus</i> Argonaute DNA guide strand-mediated DNA target cleavage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 652-657.	3.3	194
9	Cas9 versus Cas12a/Cpf1: Structure-function comparisons and implications for genome editing. <i>Wiley Interdisciplinary Reviews RNA</i> , 2018, 9, e1481.	3.2	164
10	Prokaryotic Argonaute proteins: novel genome-editing tools?. <i>Nature Reviews Microbiology</i> , 2018, 16, 5-11.	13.6	134
11	DNA-guided DNA cleavage at moderate temperatures by <i>Clostridium butyricum</i> Argonaute. <i>Nucleic Acids Research</i> , 2019, 47, 5809-5821.	6.5	115
12	Autonomous Generation and Loading of DNA Guides by Bacterial Argonaute. <i>Molecular Cell</i> , 2017, 65, 985-998.e6.	4.5	103
13	Short prokaryotic Argonaute systems trigger cell death upon detection of invading DNA. <i>Cell</i> , 2022, 185, 1471-1486.e19.	13.5	85
14	Planting the seed: target recognition of short guide RNAs. <i>Trends in Microbiology</i> , 2014, 22, 74-83.	3.5	70
15	Bacteriophage DNA glucosylation impairs target DNA binding by type I and II but not by type V CRISPR-Cas effector complexes. <i>Nucleic Acids Research</i> , 2018, 46, 873-885.	6.5	57
16	Complete genome sequence of <i>Syntrophobacter fumaroxidans</i> strain (MPOBT). <i>Standards in Genomic Sciences</i> , 2012, 7, 91-106.	1.5	55
17	Effects of Argonaute on Gene Expression in <i>Thermus thermophilus</i> . <i>PLoS ONE</i> , 2015, 10, e0124880.	1.1	44
18	Making the cut(s): how Cas12a cleaves target and non-target DNA. <i>Biochemical Society Transactions</i> , 2019, 47, 1499-1510.	1.6	35

#	ARTICLE	IF	CITATIONS
19	Two-Component Nanoparticle Vaccine Displaying Glycosylated Spike S1 Domain Induces Neutralizing Antibody Response against SARS-CoV-2 Variants. <i>MBio</i> , 2021, 12, e0181321.	1.8	28
20	Heterologous Expression and Purification of the CRISPR-Cas12a/Cpf1 Protein. <i>Bio-protocol</i> , 2018, 8, e2842.	0.2	21
21	Introducing gene deletions by mouse zygote electroporation of Cas12a/Cpf1. <i>Transgenic Research</i> , 2019, 28, 525-535.	1.3	20
22	An HflX-Type GTPase from <i>Sulfolobus solfataricus</i> Binds to the 50S Ribosomal Subunit in All Nucleotide-Bound States. <i>Journal of Bacteriology</i> , 2011, 193, 2861-2867.	1.0	19
23	Preparation and electroporation of Cas12a/Cpf1-guide RNA complexes for introducing large gene deletions in mouse embryonic stem cells. <i>Methods in Enzymology</i> , 2019, 616, 241-263.	0.4	16
24	Prokaryotic Argonautes Function beyond Immunity by Unlinking Replicating Chromosomes. <i>Cell</i> , 2020, 182, 1381-1383.	13.5	7
25	Stirring Up the Type V Alphabet Soup. <i>CRISPR Journal</i> , 2019, 2, 14-16.	1.4	5
26	Prokaryotic Argonautes " variations on the RNA interference theme. <i>Microbial Cell</i> , 2014, 1, 158-159.	1.4	5
27	Cover Image, Volume 9, Issue 5. <i>Wiley Interdisciplinary Reviews RNA</i> , 2018, 9, e1505.	3.2	0