Giedrius Gasiunas

List of Publications by Year
in descending order

30 papers	5,242 citations	304368 22 h-index	500791 28 g-index
32 all docs	32 docs citations	32 times ranked	5445 citing authors

#	Article	IF	Citations
1	Cas9â€“crRNA ribonucleoprotein complex mediates specific DNA cleavage for adaptive immunity in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2579-86.	3.3	2,217
2	The Streptococcus thermophilus CRISPR/Cas system provides immunity in Escherichia coli. Nucleic Acids Research, 2011, 39, 9275-9282.	6.5	701
3	Direct observation of R-loop formation by single RNA-guided Cas9 and Cascade effector complexes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9798-9803.	3.3	397
4	Cas3 is a single-stranded DNA nuclease and ATP-dependent helicase in the CRISPR/Cas immune system. EMBO Journal, 2011, 30, 1335-1342.	3.5	363
5	In vitro reconstitution of Cascade-mediated CRISPR immunity in Streptococcus thermophilus. EMBO Journal, 2013, 32, 385-394.	3.5	220
6	Streptococcus thermophilus CRISPR-Cas9 Systems Enable Specific Editing of the Human Genome. Molecular Therapy, 2016, 24, 636-644.	3.7	204
7	crRNA and tracrRNA guide Cas9-mediated DNA interference in<i>Streptococcus thermophilus</i>. RNA Biology, 2013, 10, 841-851.	1.5	203
8	Rapid characterization of CRISPR-Cas9 protospacer adjacent motif sequence elements. Genome Biology, 2015, 16, 253.	3.8	177
9	A catalogue of biochemically diverse CRISPR-Cas9 orthologs. Nature Communications, 2020, 11, 5512.	5.8	116
10	Molecular mechanisms of CRISPR-mediated microbial immunity. Cellular and Molecular Life Sciences, 2014, 71, 449-465.	2.4	93
11	Discrimination of single-point mutations in unamplified genomic DNA via Cas9 immobilized on a graphene field-effect transistor. Nature Biomedical Engineering, 2021, 5, 713-725.	11.6	77
12	Lactase nonpersistence is directed by DNA-variation-dependent epigenetic aging. Nature Structural and Molecular Biology, 2016, 23, 566-573.	3.6	72
13	RNA-dependent DNA endonuclease Cas9 of the CRISPR system: Holy Grail of genome editing?. Trends in Microbiology, 2013, 21, 562-567.	3.5	61
14	Structure of the DNA-Bound Spacer Capture Complex of a Type II CRISPR-Cas System. Molecular Cell, 2019, 75, 90-101.e5.	4.5	35
15	DnaQ exonucleaseâ€like domain of Cas2 promotes spacer integration in a type Iâ€E CRISPRâ€Cas system. EMBO Reports, 2018, 19, .	2.0	31
16	Harnessing the natural diversity and in vitro evolution of Cas9 to expand the genome editing toolbox. Current Opinion in Microbiology, 2017, 37, 88-94.	2.3	30
17	A closely-related clade of globally distributed bloom-forming cyanobacteria within the Nostocales. Harmful Algae, 2018, 77, 93-107.	2.2	27
18	Mva1269I: A Monomeric Type IIS Restriction Endonuclease from Micrococcus Varians with Two EcoRI- and FokI-like Catalytic Domains. Journal of Biological Chemistry, 2005, 280, 41584-41594.	1.6	25

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19	Programmable DNA cleavage <i>inÂvitro</i> by Cas9. Biochemical Society Transactions, 2013, 41, 1401-1406.	1.6	25
20	5â€² modifications to CRISPRâ€“Cas9 gRNA can change the dynamics and size of R-loops and inhibit DNA cleavage. Nucleic Acids Research, 2020, 48, 6811-6823.	6.5	25
21	Tetrameric restriction enzymes: expansion to the GIY-YIG nuclease family. Nucleic Acids Research, 2007, 36, 938-949.	6.5	23
22	Targeted gene editing by transfection of<i>in vitro</i>reconstituted<i>Streptococcus thermophilus</i>Cas9 nuclease complex. RNA Biology, 2015, 12, 1-4.	1.5	23
23	Methods for decoding Cas9 protospacer adjacent motif (PAM) sequences: A brief overview. Methods, 2017, 121-122, 3-8.	1.9	23
24	Genomic Characterization of Cyanophage vB_AphaS-CL131 Infecting Filamentous Diazotrophic Cyanobacterium <i>Aphanizomenon flos-aquae</i> Reveals Novel Insights into Virus-Bacterium Interactions. Applied and Environmental Microbiology, 2019, 85, .	1.4	23
25	Design of a CRISPR-Cas system to increase resistance of <i>Bacillus subtilis</i> to bacteriophage SPP1. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1183-1188.	1.4	22
26	Rewiring Cas9 to Target New PAM Sequences. Molecular Cell, 2016, 61, 793-794.	4.5	11
27	Cas3 Nucleaseâ€“Helicase Activity Assays. Methods in Molecular Biology, 2015, 1311, 277-291.	0.4	5
28	Diversification of the CRISPR Toolbox: Applications of CRISPR-Cas Systems Beyond Genome Editing. CRISPR Journal, 2021, 4, 400-415.	1.4	5
29	Applications of the Versatile CRISPR-Cas Systems. , 2013, , 267-286.		1
30	Applications of the Versatile CRISPR-Cas Systems. , 2013, , 267-286.		1