

# Giedrius Gasiunas

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Discrimination of single-point mutations in unamplified genomic DNA via Cas9 immobilized on a graphene field-effect transistor. <i>Nature Biomedical Engineering</i> , 2021, 5, 713-725.   | 11.6 | 77        |
| 2  | Diversification of the CRISPR Toolbox: Applications of CRISPR-Cas Systems Beyond Genome Editing. <i>CRISPR Journal</i> , 2021, 4, 400-415.   | 1.4  | 5         |
| 3  | A catalogue of biochemically diverse CRISPR-Cas9 orthologs. <i>Nature Communications</i> , 2020, 11, 5512.   | 5.8  | 116       |
| 4  | 5â€² modifications to CRISPRâ€“Cas9 gRNA can change the dynamics and size of R-loops and inhibit DNA cleavage. <i>Nucleic Acids Research</i> , 2020, 48, 6811-6823.  | 6.5  | 25        |
| 5  | Structure of the DNA-Bound Spacer Capture Complex of a Type II CRISPR-Cas System. <i>Molecular Cell</i> , 2019, 75, 90-101.e5.   | 4.5  | 35        |
| 6  | Genomic Characterization of Cyanophage <i>vB_AphaS-CL131</i> Infecting Filamentous Diazotrophic Cyanobacterium <i>Aphanizomenon flos-aquae</i> Reveals Novel Insights into Virus-Bacterium Interactions. <i>Applied and Environmental Microbiology</i> , 2019, 85, . | 1.4  | 23        |
| 7  | A closely-related clade of globally distributed bloom-forming cyanobacteria within the Nostocales. <i>Harmful Algae</i> , 2018, 77, 93-107.  | 2.2  | 27        |
| 8  | DnaQ exonucleaseâ€“like domain of Cas2 promotes spacer integration in a type Iâ€“CRISPRâ€“Cas system. <i>EMBO Reports</i> , 2018, 19, .  | 2.0  | 31        |
| 9  | Harnessing the natural diversity and in vitro evolution of Cas9 to expand the genome editing toolbox. <i>Current Opinion in Microbiology</i> , 2017, 37, 88-94.  | 2.3  | 30        |
| 10 | Methods for decoding Cas9 protospacer adjacent motif (PAM) sequences: A brief overview. <i>Methods</i> , 2017, 121-122, 3-8.   | 1.9  | 23        |
| 11 | Lactase nonpersistence is directed by DNA-variation-dependent epigenetic aging. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 566-573.  | 3.6  | 72        |
| 12 | Design of a CRISPR-Cas system to increase resistance of <i>Bacillus subtilis</i> to bacteriophage SPP1. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 1183-1188.   | 1.4  | 22        |
| 13 | <i>Streptococcus thermophilus</i> CRISPR-Cas9 Systems Enable Specific Editing of the Human Genome. <i>Molecular Therapy</i> , 2016, 24, 636-644.   | 3.7  | 204       |
| 14 | Rewiring Cas9 to Target New PAM Sequences. <i>Molecular Cell</i> , 2016, 61, 793-794.  | 4.5  | 11        |
| 15 | Rapid characterization of CRISPR-Cas9 protospacer adjacent motif sequence elements. <i>Genome Biology</i> , 2015, 16, 253.   | 3.8  | 177       |
| 16 | Targeted gene editing by transfection of <i>in vitro</i> reconstituted <i>Streptococcus thermophilus</i> Cas9 nuclease complex. <i>RNA Biology</i> , 2015, 12, 1-4.  | 1.5  | 23        |
| 17 | Cas3 Nucleaseâ€“Helicase Activity Assays. <i>Methods in Molecular Biology</i> , 2015, 1311, 277-291.   | 0.4  | 5         |
| 18 | Molecular mechanisms of CRISPR-mediated microbial immunity. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 449-465.   | 2.4  | 93        |

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|----|--|-----|-----------|
| 19 | 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       |
| 20 | RNA-dependent DNA endonuclease Cas9 of the CRISPR system: Holy Grail of genome editing?. Trends in Microbiology, 2013, 21, 562-567.  | 3.5 | 61        |
| 21 | In vitro reconstitution of Cascade-mediated CRISPR immunity in <i>Streptococcus thermophilus</i> . EMBO Journal, 2013, 32, 385-394.  | 3.5 | 220       |
| 22 | Applications of the Versatile CRISPR-Cas Systems. , 2013, , 267-286.   |     | 1         |
| 23 | crRNA and tracrRNA guide Cas9-mediated DNA interference in <i>Streptococcus thermophilus</i> . RNA Biology, 2013, 10, 841-851.   | 1.5 | 203       |
| 24 | Programmable DNA cleavage <i>in vitro</i> by Cas9. Biochemical Society Transactions, 2013, 41, 1401-1406.  | 1.6 | 25        |
| 25 | Applications of the Versatile CRISPR-Cas Systems. , 2013, , 267-286.   |     | 1         |
| 26 | Cas9-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     |
| 27 | The <i>Streptococcus thermophilus</i> CRISPR/Cas system provides immunity in <i>Escherichia coli</i> . Nucleic Acids Research, 2011, 39, 9275-9282.  | 6.5 | 701       |
| 28 | 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       |
| 29 | Tetrameric restriction enzymes: expansion to the GIY-YIG nuclease family. Nucleic Acids Research, 2007, 36, 938-949.   | 6.5 | 23        |
| 30 | Mva1269I: A Monomeric Type IIS Restriction Endonuclease from <i>Micrococcus Varians</i> with Two EcoRI- and FokI-like Catalytic Domains. Journal of Biological Chemistry, 2005, 280, 41584-41594.            | 1.6 | 25        |