

# Julia Frunzke

## List of Publications by Year in descending order

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65  
papers

3,225  
citations

136885

32  
h-index

155592

55  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2769  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Spontaneous Prophage Induction on the Fitness of Bacterial Populations and Host-Microbe Interactions. <i>Journal of Bacteriology</i> , 2015, 197, 410-419.	1.0	232
2	The development and application of a single-cell biosensor for the detection of l-methionine and branched-chain amino acids. <i>Metabolic Engineering</i> , 2012, 14, 449-457.	3.6	200
3	Transcription factor-based biosensors in biotechnology: current state and future prospects. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 79-90.	1.7	178
4	Coordinated regulation of gluconate catabolism and glucose uptake in <i>Corynebacterium glutamicum</i> by two functionally equivalent transcriptional regulators, GntR1 and GntR2. <i>Molecular Microbiology</i> , 2008, 67, 305-322.	1.2	145
5	Biosensor-driven adaptive laboratory evolution of l-valine production in <i>Corynebacterium glutamicum</i> . <i>Metabolic Engineering</i> , 2015, 32, 184-194.	3.6	145
6	Construction of a Prophage-Free Variant of <i>Corynebacterium glutamicum</i> ATCC 13032 for Use as a Platform Strain for Basic Research and Industrial Biotechnology. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6006-6015.	1.4	142
7	Looking for the pick of the bunch: high-throughput screening of producing microorganisms with biosensors. <i>Current Opinion in Biotechnology</i> , 2014, 26, 148-154.	3.3	125
8	Sigma factor mimicry involved in regulation of general stress response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3467-3472.	3.3	121
9	The DtxR Regulon of <i>Corynebacterium glutamicum</i> . <i>Journal of Bacteriology</i> , 2006, 188, 2907-2918.	1.0	104
10	The PhrA-EcfG signalling cascade is involved in stress response and symbiotic efficiency in <i>Bradyrhizobium japonicum</i> . <i>Molecular Microbiology</i> , 2009, 73, 291-305.	1.2	103
11	Chassis organism from <i>Corynebacterium glutamicum</i> – a top-down approach to identify and delete irrelevant gene clusters. <i>Biotechnology Journal</i> , 2015, 10, 290-301.	1.8	102
12	Application of a Genetically Encoded Biosensor for Live Cell Imaging of L-Valine Production in Pyruvate Dehydrogenase Complex-Deficient <i>Corynebacterium glutamicum</i> Strains. <i>PLoS ONE</i> , 2014, 9, e85731.	1.1	100
13	The AraC-type Regulator RipA Represses Aconitase and Other Iron Proteins from <i>Corynebacterium</i> under Iron Limitation and Is Itself Repressed by DtxR. <i>Journal of Biological Chemistry</i> , 2005, 280, 40500-40508.	1.6	98
14	Spatiotemporal microbial single-cell analysis using a high-throughput microfluidics cultivation platform. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 1101-1115.	1.1	88
15	Lrp of <i>Corynebacterium glutamicum</i> controls expression of the brnFE operon encoding the export system for l-methionine and branched-chain amino acids. <i>Journal of Biotechnology</i> , 2012, 158, 231-241.	1.9	78
16	The general stress response in Alphaproteobacteria. <i>Trends in Microbiology</i> , 2015, 23, 164-171.	3.5	65
17	Analysis of SOS-Induced Spontaneous Prophage Induction in <i>Corynebacterium glutamicum</i> at the Single-Cell Level. <i>Journal of Bacteriology</i> , 2014, 196, 180-188.	1.0	64
18	<i>Corynebacterium glutamicum</i> Chassis C1*: Building and Testing a Novel Platform Host for Synthetic Biology and Industrial Biotechnology. <i>ACS Synthetic Biology</i> , 2018, 7, 132-144.	1.9	63

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19	Population Heterogeneity in <i>Corynebacterium glutamicum</i> ATCC 13032 Caused by Prophage CGP3. <i>Journal of Bacteriology</i> , 2008, 190, 5111-5119.	1.0	54
20	Adaptive laboratory evolution of <i>Corynebacterium glutamicum</i> towards higher growth rates on glucose minimal medium. <i>Scientific Reports</i> , 2017, 7, 16780.	1.6	50
21	Microfluidic Picoliter Bioreactor for Microbial Single-cell Analysis: Fabrication, System Setup, and Operation. <i>Journal of Visualized Experiments</i> , 2013, , 50560.	0.2	49
22	Control of Heme Homeostasis in <i>Corynebacterium glutamicum</i> by the Two-Component System HrrSA. <i>Journal of Bacteriology</i> , 2011, 193, 1212-1221.	1.0	47
23	Evolutionary engineering of <i>Corynebacterium glutamicum</i> . <i>Biotechnology Journal</i> , 2019, 14, e1800444.	1.8	46
24	RamB, the Transcriptional Regulator of Acetate Metabolism in <i>Corynebacterium glutamicum</i> , Is Subject to Regulation by RamA and RamB. <i>Journal of Bacteriology</i> , 2007, 189, 1145-1149.	1.0	45
25	Screening of an <i>Escherichia coli</i> promoter library for a phenylalanine biosensor. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6739-6753.	1.7	42
26	Monitoring of population dynamics of <i>Corynebacterium glutamicum</i> by multiparameter flow cytometry. <i>Microbial Biotechnology</i> , 2013, 6, 157-167.	2.0	41
27	Live cell imaging of SOS and prophage dynamics in isogenic bacterial populations. <i>Molecular Microbiology</i> , 2015, 98, 636-650.	1.2	41
28	Construction of Recombinant Pdu Metabolosome Shells for Small Molecule Production in <i>Corynebacterium glutamicum</i> . <i>ACS Synthetic Biology</i> , 2017, 6, 2145-2156.	1.9	41
29	Light-Controlled Cell Factories: Employing Photocaged Isopropyl- $\beta$ -D-Thiogalactopyranoside for Light-Mediated Optimization of <i>lac</i> Promoter-Based Gene Expression and (+)-Valencene Biosynthesis in <i>Corynebacterium glutamicum</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 6141-6149.	1.4	40
30	Heterologous expression of the <i>Halothiobacillus neapolitanus</i> carboxysomal gene cluster in <i>Corynebacterium glutamicum</i> . <i>Journal of Biotechnology</i> , 2017, 258, 126-135.	1.9	40
31	IpsA, a novel LacI-type regulator, is required for inositol-derived lipid formation in <i>Corynebacteria</i> and <i>Mycobacteria</i> . <i>BMC Biology</i> , 2013, 11, 122.	1.7	38
32	Destabilized eYFP variants for dynamic gene expression studies in <i>Corynebacterium glutamicum</i> . <i>Microbial Biotechnology</i> , 2013, 6, 196-201.	2.0	37
33	Silencing of cryptic prophages in <i>Corynebacterium glutamicum</i> . <i>Nucleic Acids Research</i> , 2016, 44, gkw692.	6.5	35
34	Impact of Xenogeneic Silencing on Phage-Host Interactions. <i>Journal of Molecular Biology</i> , 2019, 431, 4670-4683.	2.0	34
35	Aminoglycoside Antibiotics Inhibit Phage Infection by Blocking an Early Step of the Infection Cycle. <i>MBio</i> , 2022, 13, e0078322.	1.8	33
36	A prophage-encoded actin-like protein required for efficient viral DNA replication in bacteria. <i>Nucleic Acids Research</i> , 2015, 43, 5002-5016.	6.5	31

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37	Generation of a Prophage-Free Variant of the Fast-Growing Bacterium <i>Vibrio natriegens</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	31
38	Impact of LytR-CpsA-Psr Proteins on Cell Wall Biosynthesis in <i>Corynebacterium glutamicum</i> . <i>Journal of Bacteriology</i> , 2016, 198, 3045-3059.	1.0	30
39	The two-component system ChrSA is crucial for haem tolerance and interferes with HrrSA in haem-dependent gene regulation in <i>Corynebacterium glutamicum</i> . <i>Microbiology (United Kingdom)</i> , 2012, 158, 3020-3031.	0.7	25
40	Deletion of manC in <i>Corynebacterium glutamicum</i> results in a phospho-myo-inositol mannoside- and lipoglycan-deficient mutant. <i>Microbiology (United Kingdom)</i> , 2012, 158, 1908-1917.	0.7	25
41	Phosphatase activity of the histidine kinases ensures pathway specificity of the <scp>ChrSA</scp> and <scp>HrrSA</scp> two-component systems in <scp><i>C</i></scp><i>orynebacterium glutamicum</i>. <i>Molecular Microbiology</i> , 2014, 92, 1326-1342.	1.2	20
42	Automated Rational Strain Construction Based on High-Throughput Conjugation. <i>ACS Synthetic Biology</i> , 2021, 10, 589-599.	1.9	18
43	Genome Sequence and Characterization of Five Bacteriophages Infecting <i>Streptomyces coelicolor</i> and <i>Streptomyces venezuelae</i> : Alderaan, Coruscant, Dagobah, Endor1 and Endor2. <i>Viruses</i> , 2020, 12, 1065.	1.5	17
44	Deciphering the Rules Underlying Xenogeneic Silencing and Counter-Silencing of Lsr2-like Proteins Using CgpS of <i>Corynebacterium glutamicum</i> as a Model. <i>MBio</i> , 2020, 11, .	1.8	15
45	Cytometry meets next-generation sequencing – RNA-Seq of sorted subpopulations reveals regional replication and iron-triggered prophage induction in <i>Corynebacterium glutamicum</i> . <i>Scientific Reports</i> , 2018, 8, 14856.	1.6	14
46	Membrane Topology and Heme Binding of the Histidine Kinases HrrS and ChrS in <i>Corynebacterium glutamicum</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 183.	1.5	14
47	The MarR-Type Regulator MalR Is Involved in Stress-Responsive Cell Envelope Remodeling in <i>Corynebacterium glutamicum</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 1039.	1.5	14
48	Multiple ĨfEcfG and NepR Proteins Are Involved in the General Stress Response in <i>Methylobacterium extorquens</i> . <i>PLoS ONE</i> , 2016, 11, e0152519.	1.1	12
49	The manganese-responsive regulator MntR represses transcription of a predicted ZIP family metal ion transporter in <i>Corynebacterium glutamicum</i> . <i>FEMS Microbiology Letters</i> , 2015, 362, 1-10.	0.7	11
50	Biosensor-based growth-coupling and spatial separation as an evolution strategy to improve small molecule production of <i>Corynebacterium glutamicum</i> . <i>Metabolic Engineering</i> , 2021, 68, 162-173.	3.6	11
51	HrrSA orchestrates a systemic response to heme and determines prioritization of terminal cytochrome oxidase expression. <i>Nucleic Acids Research</i> , 2020, 48, 6547-6562.	6.5	10
52	Toxic but tasty – temporal dynamics and network architecture of heme-responsive two-component signaling in <i>Corynebacterium glutamicum</i>. <i>Molecular Microbiology</i> , 2019, 111, 1367-1381.	1.2	9
53	Inducible Expression Systems Based on Xenogeneic Silencing and Counter-Silencing and Design of a Metabolic Toggle Switch. <i>ACS Synthetic Biology</i> , 2020, 9, 2023-2038.	1.9	8
54	The diversity of heme sensor systems – heme-responsive transcriptional regulation mediated by transient heme protein interactions. <i>FEMS Microbiology Reviews</i> , 2022, 46, .	3.9	7

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55	Isolation of Novel Xanthomonas Phages Infecting the Plant Pathogens <i>X. translucens</i> and <i>X. campestris</i> . <i>Viruses</i> , 2022, 14, 1449.	1.5	6
56	Phylogenetic Distribution of WhiB- and Lsr2-Type Regulators in Actinobacteriophage Genomes. <i>Microbiology Spectrum</i> , 2021, 9, e0072721.	1.2	5
57	Biosensor-based isolation of amino acid-producing <i>Vibrio natriegens</i> strains. <i>Metabolic Engineering Communications</i> , 2021, 13, e00187.	1.9	5
58	Impact of CO <sub>2</sub> /HCO <sub>3</sub> <sup>-</sup> Availability on Anaplerotic Flux in Pyruvate Dehydrogenase Complex-Deficient <i>Corynebacterium glutamicum</i> Strains. <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	3
59	Genome Sequence of the Bacteriophage CL31 and Interaction with the Host Strain <i>Corynebacterium glutamicum</i> ATCC 13032. <i>Viruses</i> , 2021, 13, 495.	1.5	3
60	Identification of Gip as a novel phage-encoded gyrase inhibitor protein of <i>Corynebacterium glutamicum</i> . <i>Molecular Microbiology</i> , 2021, 116, 1268-1280.	1.2	3
61	Genetically-encoded Biosensors for Strain Development and Single Cell Analysis of <i>Corynebacterium glutamicum</i> . , 2015, , 179-196.		2
62	The General Stress Response in Alphaproteobacteria. , 0, , 291-300.		1
63	Chassis organism from <i>Corynebacterium glutamicum</i> – Genome reduction as a tool toward improved strains for synthetic biology and industrial biotechnology. <i>New Biotechnology</i> , 2016, 33, S25.	2.4	1
64	Establishment of synthetic microcompartments in <i>Corynebacterium glutamicum</i> . <i>New Biotechnology</i> , 2016, 33, S184.	2.4	0
65	Lichtblicke in der mikrobiellen Stammentwicklung. <i>Nachrichten Aus Der Chemie</i> , 2018, 66, 589-592.	0.0	0