

Georg Fritz

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,407
citations

331259

21
h-index

360668

35
g-index

49
all docs

49
docs citations

49
times ranked

1581
citing authors

#	ARTICLE	IF	CITATIONS
1	Expansion and re-classification of the extracytoplasmic function (ECF) σ factor family. <i>Nucleic Acids Research</i> , 2021, 49, 986-1005.	6.5	32
2	The Marburg Collection: A Golden Gate DNA Assembly Framework for Synthetic Biology Applications in <i>Vibrio natriegens</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 1904-1919.	1.9	18
3	BceAB-Type Antibiotic Resistance Transporters Appear To Act by Target Protection of Cell Wall Synthesis. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	1.4	31
4	Coevolutionary Analysis Reveals a Conserved Dual Binding Interface between Extracytoplasmic Function σ Factors and Class I Anti- σ Factors. <i>MSystems</i> , 2020, 5, .	1.7	2
5	The Cell Envelope Stress Response of <i>Bacillus subtilis</i> towards Laspartomycin C. <i>Antibiotics</i> , 2020, 9, 729.	1.5	6
6	The novel ECF56 SigG1-RsfG system modulates morphological differentiation and metal-ion homeostasis in <i>Streptomyces tsukubaensis</i> . <i>Scientific Reports</i> , 2020, 10, 21728.	1.6	4
7	<i>Vibrio natriegens</i> : an ultrafast-growing marine bacterium as emerging synthetic biology chassis. <i>Environmental Microbiology</i> , 2020, 22, 4394-4408.	1.8	74
8	Gene regulation by extracytoplasmic function (ECF) σ factors in alpha-rhizobia. <i>Advances in Botanical Research</i> , 2020, 94, 289-321.	0.5	2
9	Transcriptional regulation by σ factor phosphorylation in bacteria. <i>Nature Microbiology</i> , 2020, 5, 395-406.	5.9	17
10	From Modules to Networks: a Systems-Level Analysis of the Bacitracin Stress Response in <i>Bacillus subtilis</i> . <i>MSystems</i> , 2020, 5, .	1.7	8
11	Symmetric activity of DNA polymerases at and recruitment of exonuclease ExoR and of PolA to the <i>Bacillus subtilis</i> replication forks. <i>Nucleic Acids Research</i> , 2019, 47, 8521-8536.	6.5	23
12	Minimal exposure of lipid II cycle intermediates triggers cell wall antibiotic resistance. <i>Nature Communications</i> , 2019, 10, 2733.	5.8	28
13	Heterogeneous Timing of Gene Induction as a Regulation Strategy. <i>Journal of Molecular Biology</i> , 2019, 431, 4760-4774.	2.0	7
14	Deconvolution of Luminescence Cross-Talk in High-Throughput Gene Expression Profiling. <i>ACS Synthetic Biology</i> , 2019, 8, 1361-1370.	1.9	10
15	The role of C-terminal extensions in controlling ECF σ factor activity in the widely conserved groups ECF41 and ECF42. <i>Molecular Microbiology</i> , 2019, 112, 498-514.	1.2	19
16	Stringent response leads to continued cell division and a temporal restart of DNA replication after initial shutdown in <i>Vibrio cholerae</i> . <i>Molecular Microbiology</i> , 2019, 111, 1617-1637.	1.2	2
17	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
18	CRIMoClo plasmids for modular assembly and orthogonal chromosomal integration of synthetic circuits in <i>Escherichia coli</i> . <i>Journal of Biological Engineering</i> , 2019, 13, 92.	2.0	7

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19	Single-Molecule Tracking of DNA Translocases in <i>Bacillus subtilis</i> Reveals Strikingly Different Dynamics of SftA, SpoIIIE, and FtsA. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	26
20	Single molecule tracking reveals spatio-temporal dynamics of bacterial DNA repair centres. <i>Scientific Reports</i> , 2018, 8, 16450.	1.6	31
21	SMTracker: a tool for quantitative analysis, exploration and visualization of single-molecule tracking data reveals highly dynamic binding of <i>B. subtilis</i> global repressor AbrB throughout the genome. <i>Scientific Reports</i> , 2018, 8, 15747.	1.6	55
22	Engineering orthogonal synthetic timer circuits based on extracytoplasmic function σ factors. <i>Nucleic Acids Research</i> , 2018, 46, 7450-7464.	6.5	32
23	The cell envelope stress response of <i>Bacillus subtilis</i> : from static signaling devices to dynamic regulatory network. <i>Current Genetics</i> , 2017, 63, 79-90.	0.8	58
24	Transporters as information processors in bacterial signalling pathways. <i>Molecular Microbiology</i> , 2017, 104, 1-15.	1.2	42
25	Single-cell characterization of metabolic switching in the sugar phosphotransferase system of <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2016, 100, 472-485.	1.2	22
26	Anatomy of the bacitracin resistance network in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2016, 100, 607-620.	1.2	67
27	Cannibalism stress response in <i>Bacillus subtilis</i> . <i>Microbiology (United Kingdom)</i> , 2016, 162, 164-176.	0.7	34
28	Environmental Sensing in Actinobacteria: a Comprehensive Survey on the Signaling Capacity of This Phylum. <i>Journal of Bacteriology</i> , 2015, 197, 2517-2535.	1.0	54
29	A New Way of Sensing: Need-Based Activation of Antibiotic Resistance by a Flux-Sensing Mechanism. <i>MBio</i> , 2015, 6, e00975.	1.8	60
30	Subcellular localization, interactions and dynamics of the phage shock protein-like <i>Lia</i> response in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2014, 92, 716-732.	1.2	45
31	A balancing act times two: sensing and regulating cell envelope homeostasis in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2014, 94, 1201-1207.	1.2	10
32	Crystal Structure of PhnF, a GntR-Family Transcriptional Regulator of Phosphate Transport in <i>Mycobacterium smegmatis</i> . <i>Journal of Bacteriology</i> , 2014, 196, 3472-3481.	1.0	17
33	Single Cell Kinetics of Phenotypic Switching in the Arabinose Utilization System of <i>E. coli</i> . <i>PLoS ONE</i> , 2014, 9, e89532.	1.1	48
34	The <i>Bacillus</i> BioBrick Box: generation and evaluation of essential genetic building blocks for standardized work with <i>Bacillus subtilis</i> . <i>Journal of Biological Engineering</i> , 2013, 7, 29.	2.0	195
35	Biological Signal Processing with a Genetic Toggle Switch. <i>PLoS ONE</i> , 2013, 8, e68345.	1.1	33
36	Deactivation of the <i>E. coli</i> pH Stress Sensor CadC by Cadaverine. <i>Journal of Molecular Biology</i> , 2012, 424, 15-27.	2.0	37

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37	Arrangement of Annexin A2 tetramer and its impact on the structure and diffusivity of supported lipid bilayers. <i>Soft Matter</i> , 2010, 6, 4084.	1.2	7
38	Induction Kinetics of a Conditional pH Stress Response System in <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2009, 393, 272-286.	2.0	62
39	Timing and Dynamics of Single Cell Gene Expression in the Arabinose Utilization System. <i>Biophysical Journal</i> , 2008, 95, 2103-2115.	0.2	110
40	Designing sequential transcription logic: a simple genetic circuit for conditional memory. <i>Systems and Synthetic Biology</i> , 2007, 1, 89-98.	1.0	30
41	The multi-component field topology of sunspot penumbrae. <i>Astronomy and Astrophysics</i> , 2006, 460, 925-933.	2.1	14
42	On the geometry of sunspot penumbral filaments. <i>Astronomy and Astrophysics</i> , 2004, 421, 735-739.	2.1	9