Georg Fritz

List of Publications by Year
in descending order

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	The Bacillus BioBrick Box: generation and evaluation of essential genetic building blocks for standardized work with Bacillus subtilis. Journal of Biological Engineering, 2013, 7, 29.	2.0	195
2	Timing and Dynamics of Single Cell Gene Expression in the Arabinose Utilization System. Biophysical Journal, 2008, 95, 2103-2115.	0.2	110
3	Vibrio natriegens: an ultrafastâ€growing marine bacterium as emerging synthetic biology chassis. Environmental Microbiology, 2020, 22, 4394-4408.	1.8	74
4	Anatomy of the bacitracin resistance network in <scp>B</scp>acillus subtilis. Molecular Microbiology, 2016, 100, 607-620.	1.2	67
5	Induction Kinetics of a Conditional pH Stress Response System in Escherichia coli. Journal of Molecular Biology, 2009, 393, 272-286.	2.0	62
6	A New Way of Sensing: Need-Based Activation of Antibiotic Resistance by a Flux-Sensing Mechanism. MBio, 2015, 6, e00975.	1.8	60
7	The cell envelope stress response of Bacillus subtilis: from static signaling devices to dynamic regulatory network. Current Genetics, 2017, 63, 79-90.	0.8	58
8	SMTracker: a tool for quantitative analysis, exploration and visualization of single-molecule tracking data reveals highly dynamic binding of B. subtilis global repressor AbrB throughout the genome. Scientific Reports, 2018, 8, 15747.	1.6	55
9	Environmental Sensing in Actinobacteria: a Comprehensive Survey on the Signaling Capacity of This Phylum. Journal of Bacteriology, 2015, 197, 2517-2535.	1.0	54
10	Single Cell Kinetics of Phenotypic Switching in the Arabinose Utilization System of E. coli. PLoS ONE, 2014, 9, e89532.	1.1	48
11	Subcellular localization, interactions and dynamics of the phageâ€shock proteinâ€like <scp>Lia</scp> response in <scp>B</scp>acillus subtilis. Molecular Microbiology, 2014, 92, 716-732.	1.2	45
12	Transporters as information processors in bacterial signalling pathways. Molecular Microbiology, 2017, 104, 1-15.	1.2	42
13	Deactivation of the E. coli pH Stress Sensor CadC by Cadaverine. Journal of Molecular Biology, 2012, 424, 15-27.	2.0	37
14	Cannibalism stress response in Bacillus subtilis. Microbiology (United Kingdom), 2016, 162, 164-176.	0.7	34
15	Biological Signal Processing with a Genetic Toggle Switch. PLoS ONE, 2013, 8, e68345.	1.1	33
16	Engineering orthogonal synthetic timer circuits based on extracytoplasmic function Ïƒ factors. Nucleic Acids Research, 2018, 46, 7450-7464.	6.5	32
17	Expansion and re-classification of the extracytoplasmic function (ECF) Ïƒ factor family. Nucleic Acids Research, 2021, 49, 986-1005.	6.5	32
18	Single molecule tracking reveals spatio-temporal dynamics of bacterial DNA repair centres. Scientific Reports, 2018, 8, 16450.	1.6	31

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19	BceAB-Type Antibiotic Resistance Transporters Appear To Act by Target Protection of Cell Wall Synthesis. Antimicrobial Agents and Chemotherapy, 2020, 64, .	1.4	31
20	Designing sequential transcription logic: a simple genetic circuit for conditional memory. Systems and Synthetic Biology, 2007, 1, 89-98.	1.0	30
21	Minimal exposure of lipid II cycle intermediates triggers cell wall antibiotic resistance. Nature Communications, 2019, 10, 2733.	5.8	28
22	Single-Molecule Tracking of DNA Translocases in Bacillus subtilis Reveals Strikingly Different Dynamics of SftA, SpoIIIE, and FtsA. Applied and Environmental Microbiology, 2018, 84, .	1.4	26
23	Symmetric activity of DNA polymerases at and recruitment of exonuclease ExoR and of PolA to the Bacillus subtilis replication forks. Nucleic Acids Research, 2019, 47, 8521-8536.	6.5	23
24	Singleâ€cell characterization of metabolic switching in the sugar phosphotransferase system of Escherichia coli. Molecular Microbiology, 2016, 100, 472-485.	1.2	22
25	The role of Câ€terminal extensions in controlling ECF Ïƒ factor activity in the widely conserved groups ECF41 and ECF42. Molecular Microbiology, 2019, 112, 498-514.	1.2	19
26	The Marburg Collection: A Golden Gate DNA Assembly Framework for Synthetic Biology Applications in Vibrio natriegens. ACS Synthetic Biology, 2021, 10, 1904-1919.	1.9	18
27	Crystal Structure of PhnF, a GntR-Family Transcriptional Regulator of Phosphate Transport in Mycobacterium smegmatis. Journal of Bacteriology, 2014, 196, 3472-3481.	1.0	17
28	Transcriptional regulation by Ïƒ factor phosphorylation in bacteria. Nature Microbiology, 2020, 5, 395-406.	5.9	17
29	The multi-component field topology of sunspot penumbrae. Astronomy and Astrophysics, 2006, 460, 925-933.	2.1	14
30	A balancing act times two: sensing and regulating cell envelope homeostasis inBacillus subtilis. Molecular Microbiology, 2014, 94, 1201-1207.	1.2	10
31	Deconvolution of Luminescence Cross-Talk in High-Throughput Gene Expression Profiling. ACS Synthetic Biology, 2019, 8, 1361-1370.	1.9	10
32	On the geometry of sunspot penumbral filaments. Astronomy and Astrophysics, 2004, 421, 735-739.	2.1	9
33	Toxic but tasty â€“ temporal dynamics and network architecture of hemeâ€responsive twoâ€component signaling in Corynebacterium glutamicum. Molecular Microbiology, 2019, 111, 1367-1381.	1.2	9
34	From Modules to Networks: a Systems-Level Analysis of the Bacitracin Stress Response in Bacillus subtilis. MSystems, 2020, 5, .	1.7	8
35	Arrangement of Annexin A2 tetramer and its impact on the structure and diffusivity of supported lipid bilayers. Soft Matter, 2010, 6, 4084.	1.2	7
36	Heterogeneous Timing of Gene Induction as a Regulation Strategy. Journal of Molecular Biology, 2019, 431, 4760-4774.	2.0	7

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37	CRIMoClo plasmids for modular assembly and orthogonal chromosomal integration of synthetic circuits in Escherichia coli. Journal of Biological Engineering, 2019, 13, 92.	2.0	7
38	The Cell Envelope Stress Response of Bacillus subtilis towards Laspartomycin C. Antibiotics, 2020, 9, 729.	1.5	6
39	The novel ECF56 SigG1-RsfG system modulates morphological differentiation and metal-ion homeostasis in Streptomyces tsukubaensis. Scientific Reports, 2020, 10, 21728.	1.6	4
40	Stringent response leads to continued cell division and a temporal restart of DNA replication after initial shutdown in Vibrio cholerae. Molecular Microbiology, 2019, 111, 1617-1637.	1.2	2
41	Coevolutionary Analysis Reveals a Conserved Dual Binding Interface between Extracytoplasmic Function Ïƒ Factors and Class I Anti-Ïƒ Factors. MSystems, 2020, 5, .	1.7	2
42	Gene regulation by extracytoplasmic function (ECF) Ïƒ factors in alpha-rhizobia. Advances in Botanical Research, 2020, 94, 289-321.	0.5	2