Michael J Franklin

List of Publications by Year
in descending order

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42	6,842	186265	276875
papers	citations	28 h-index	41 g-index

42	42	42	7577
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Search for a Shared Genetic or Biochemical Basis for Biofilm Tolerance to Antibiotics across Bacterial Species. Antimicrobial Agents and Chemotherapy, 2022, , e0002122.	3.2	3
2	Functional Characterization of the Pseudomonas aeruginosa Ribosome Hibernation-Promoting Factor. Journal of Bacteriology, 2020, 202, .	2.2	6
3	Role of Hibernation Promoting Factor in Ribosomal Protein Stability during Pseudomonas aeruginosa Dormancy. International Journal of Molecular Sciences, 2020, 21, 9494.	4.1	7
4	Calcium Regulation of Bacterial Virulence. Advances in Experimental Medicine and Biology, 2020, 1131, 827-855.	1.6	39
5	DropSOAC: Stabilizing Microfluidic Drops for Time-Lapse Quantification of Single-Cell Bacterial Physiology. Frontiers in Microbiology, 2019, 10, 2112.	3.5	24
6	Conceptual Model of Biofilm Antibiotic Tolerance That Integrates Phenomena of Diffusion, Metabolism, Gene Expression, and Physiology. Journal of Bacteriology, 2019, 201, .	2.2	57
7	Metagenomic Profiling of Microbial Pathogens in the Little Bighorn River, Montana. International Journal of Environmental Research and Public Health, 2019, 16, 1097.	2.6	49
8	Expression and regulation of the Pseudomonas aeruginosa hibernation promoting factor. Molecular Microbiology, 2018, 110, 161-175.	2.5	12
9	Resuscitation of Pseudomonas aeruginosa from dormancy requires hibernation promoting factor (PA4463) for ribosome preservation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3204-3209.	7.1	61
10	Genome Sequence of Janthinobacterium sp. CG23_2, a Violacein-Producing Isolate from an Antarctic Supraglacial Stream. Genome Announcements, 2016, 4, .	0.8	16
11	Microsensor and transcriptomic signatures of oxygen depletion in biofilms associated with chronic wounds. Wound Repair and Regeneration, 2016, 24, 373-383.	3.0	96
12	The Pseudomonas aeruginosa PAO1 Two-Component Regulator CarSR Regulates Calcium Homeostasis and Calcium-Induced Virulence Factor Production through Its Regulatory Targets CarO and CarP. Journal of Bacteriology, 2016, 198, 951-963.	2.2	44
13	New Technologies for Studying Biofilms. Microbiology Spectrum, 2015, 3, .	3.0	83
14	New Technologies for Studying Biofilms. , 2015, , 1-32.		5
15	Contribution of Stress Responses to Antibiotic Tolerance in Pseudomonas aeruginosa Biofilms. Antimicrobial Agents and Chemotherapy, 2015, 59, 3838-3847.	3.2	115
16	A Pseudomonas aeruginosa EF-Hand Protein, EfhP (PA4107), Modulates Stress Responses and Virulence at High Calcium Concentration. PLoS ONE, 2014, 9, e98985.	2.5	39
17	Biofilms formed by the archaeon Haloferax volcaniiexhibit cellular differentiation and social motility, and facilitate horizontal gene transfer. BMC Biology, 2014, 12, 65.	3.8	81
18	Heterogeneity in Pseudomonas aeruginosa Biofilms Includes Expression of Ribosome Hibernation Factors in the Antibiotic-Tolerant Subpopulation and Hypoxia-Induced Stress Response in the Metabolically Active Population. Journal of Bacteriology, 2012, 194, 2062-2073.	2.2	219

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19	Microbial and algal alginate gelation characterized by magnetic resonance. Journal of Biotechnology, 2012, 161, 320-327.	3.8	19
20	Biosynthesis of the Pseudomonas aeruginosa Extracellular Polysaccharides, Alginate, Pel, and Psl. Frontiers in Microbiology, 2011, 2, 167.	3.5	432
21	Genotypic and Phenotypic Variation in Pseudomonas aeruginosa Reveals Signatures of Secondary Infection and Mutator Activity in Certain Cystic Fibrosis Patients with Chronic Lung Infections. Infection and Immunity, 2011, 79, 4802-4818.	2.2	31
22	Heterogeneous rpoS and rhlR mRNA Levels and 16S rRNA/rDNA (rRNA Gene) Ratios within Pseudomonas aeruginosa Biofilms, Sampled by Laser Capture Microdissection. Journal of Bacteriology, 2010, 192, 2991-3000.	2.2	84
23	Tolerance of dormant and active cells in Pseudomonas aeruginosa PA01 biofilm to antimicrobial agents. Journal of Antimicrobial Chemotherapy, 2009, 63, 129-135.	3.0	97
24	Physiological heterogeneity in biofilms. Nature Reviews Microbiology, 2008, 6, 199-210.	28.6	1,860
25	qRT-PCR of Microbial Biofilms. Cold Spring Harbor Protocols, 2008, 2008, pdb.prot5066.	0.3	7
26	Isolation of RNA and DNA from Biofilm Samples Obtained by Laser Capture Microdissection Microscopy: Figure 1.. Cold Spring Harbor Protocols, 2008, 2008, pdb.prot5065.	0.3	7
27	Localized Gene Expression in Pseudomonas aeruginosa Biofilms. Applied and Environmental Microbiology, 2008, 74, 4463-4471.	3.1	143
28	Strain-specific proteome responses of Pseudomonas aeruginosa to biofilm-associated growth and to calcium. Microbiology (United Kingdom), 2007, 153, 3838-3851.	1.8	76
29	Epimerase Active Domain of Pseudomonas aeruginosa AlgG, a Protein That Contains a Right-Handed Î²-Helix. Journal of Bacteriology, 2005, 187, 4573-4583.	2.2	30
30	Stratified Growth in Pseudomonas aeruginosa Biofilms. Applied and Environmental Microbiology, 2004, 70, 6188-6196.	3.1	322
31	Evidence that the algI/algJ Gene Cassette, Required for O Acetylation of Pseudomonas aeruginosa Alginate, Evolved by Lateral Gene Transfer. Journal of Bacteriology, 2004, 186, 4759-4773.	2.2	43
32	Determination of Proton Flux and Conductance at pH 6.8 through Single Fo Sectors from Escherichia coli. Biophysical Journal, 2004, 87, 3594-3599.	0.5	20
33	The dual roles of AlgG in C-5-epimerization and secretion of alginate polymers in Pseudomonas aeruginosa. Molecular Microbiology, 2003, 47, 1123-1133.	2.5	61
34	Contributions of Antibiotic Penetration, Oxygen Limitation, and Low Metabolic Activity to Tolerance of Pseudomonas aeruginosa Biofilms to Ciprofloxacin and Tobramycin. Antimicrobial Agents and Chemotherapy, 2003, 47, 317-323.	3.2	839
35	Compromised Host Defense on Pseudomonas aeruginosa Biofilms: Characterization of Neutrophil and Biofilm Interactions. Journal of Immunology, 2003, 171, 4329-4339.	0.8	339
36	Mutant Analysis and Cellular Localization of the AlgI, AlgJ, and AlgF Proteins Required for O Acetylation of Alginate in Pseudomonas aeruginosa. Journal of Bacteriology, 2002, 184, 3000-3007.	2.2	100

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37	Characterization of algG encoding C5-epimerase in the alginate biosynthetic gene cluster of Pseudomonas fluorescens. Gene, 2001, 278, 107-114.	2.2	16
38	Gene expression and protein levels of the stationary phase sigma factor, RpoS, in continuously-fed Pseudomonas aeruginosa biofilms. FEMS Microbiology Letters, 2001, 199, 67-71.	1.8	59
39	Role of Alginate and Its O Acetylation in Formation of Pseudomonas aeruginosa Microcolonies and Biofilms. Journal of Bacteriology, 2001, 183, 1047-1057.	2.2	386
40	Role of Antibiotic Penetration Limitation in Klebsiella pneumoniae Biofilm Resistance to Ampicillin and Ciprofloxacin. Antimicrobial Agents and Chemotherapy, 2000, 44, 1818-1824.	3.2	811
41	Pitting corrosion by bacteria on carbon steel, determined by the scanning vibrating electrode technique. Corrosion Science, 1991, 32, 945-952.	6.6	79
42	Biocorrosion. Current Opinion in Biotechnology, 1991, 2, 450-456.	6.6	25