Douglas D Risser

List of Publications by Year
in descending order

25 papers	802 citations	516710 16 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	488 citing authors

#	Article	IF	Citations
1	A DnaK(Hsp70) Chaperone System Connects Type IV Pilus Activity to Polysaccharide Secretion in Cyanobacteria. MBio, 2022, 13, e0051422.	4.1	3
2	A Regulatory Linkage Between Scytonemin Production and Hormogonia Differentiation in Nostoc punctiforme. IScience, 2022, , 104361.	4.1	3
3	The cyanobacterial taxis protein HmpF regulates type IV pilus activity in response to light. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
4	The primary transcriptome of hormogonia from a filamentous cyanobacterium defined by cappable-seq. Microbiology (United Kingdom), 2021, 167, .	1.8	4
5	The Hybrid Histidine Kinase HrmK Is an Early-Acting Factor in the Hormogonium Gene Regulatory Network. Journal of Bacteriology, 2020, 202, .	2.2	8
6	Identification of a hormogonium polysaccharideâ€specific gene set conserved in filamentous cyanobacteria. Molecular Microbiology, 2020, 114, 597-608.	2.5	16
7	Role of BGS13 in the Secretory Mechanism of Pichia pastoris. Applied and Environmental Microbiology, 2019, 85, .	3.1	7
8	A Tripartite, Hierarchical Sigma Factor Cascade Promotes Hormogonium Development in the Filamentous Cyanobacterium Nostoc punctiforme. MSphere, 2019, 4, .	2.9	24
9	A partnerâ€switching regulatory system controls hormogonium development in the filamentous cyanobacterium Nostoc punctiforme. Molecular Microbiology, 2018, 109, 555-569.	2.5	20
10	A Putative O-Linked Î²- N -Acetylglucosamine Transferase Is Essential for Hormogonium Development and Motility in the Filamentous Cyanobacterium Nostoc punctiforme. Journal of Bacteriology, 2017, 199, .	2.2	18
11	Dynamic localization of HmpF regulates type IV pilus activity and directional motility in the filamentous cyanobacterium Nostoc punctiforme. Molecular Microbiology, 2017, 106, 252-265.	2.5	27
12	Differential secretion pathways of proteins fused to the Escherichia coli maltose binding protein (MBP) in Pichia pastoris. Protein Expression and Purification, 2016, 124, 1-9.	1.3	7
13	The non-metabolizable sucrose analog sucralose is a potent inhibitor of hormogonium differentiation in the filamentous cyanobacterium Nostoc punctiforme. Archives of Microbiology, 2016, 198, 137-147.	2.2	27
14	Evidence that a modified type <scp>IV</scp> pilusâ€like system powers gliding motility and polysaccharide secretion in filamentous cyanobacteria. Molecular Microbiology, 2015, 98, 1021-1036.	2.5	74
15	Genetic Analysis Reveals the Identity of the Photoreceptor for Phototaxis in Hormogonium Filaments of Nostoc punctiforme. Journal of Bacteriology, 2015, 197, 782-791.	2.2	59
16	Genetic characterization of the <scp>hmp</scp> locus, a chemotaxisâ€like gene cluster that regulates hormogonium development and motility in <scp>N</scp>ostoc punctiforme. Molecular Microbiology, 2014, 92, 222-233.	2.5	39
17	Comparative transcriptomics with a motilityâ€deficient mutant leads to identification of a novel polysaccharide secretion system in <scp>N</scp>ostoc punctiforme. Molecular Microbiology, 2013, 87, 884-893.	2.5	48
18	Biased inheritance of the protein PatN frees vegetative cells to initiate patterned heterocyst differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15342-15347.	7.1	47

#	Article	IF	Citations
19	The RGSGR amino acid motif of the intercellular signalling protein, HetN, is required for patterning of heterocysts in Anabaena sp. strain PCC 7120. Molecular Microbiology, 2012, 83, 682-693.	2.5	48
20	Transcriptional Regulation of the Heterocyst Patterning Gene patA from Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2010, 192, 4732-4740.	2.2	30
21	Genetic and cytological evidence that heterocyst patterning is regulated by inhibitor gradients that promote activator decay. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19884-19888.	7.1	77
22	HetF and PatA Control Levels of HetR in Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2008, 190, 7645-7654.	2.2	58
23	Mutagenesis of hetR Reveals Amino Acids Necessary for HetR Function in the Heterocystous Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2007, 189, 2460-2467.	2.2	35
24	FraG is necessary for filament integrity and heterocyst maturation in the cyanobacterium Anabaena sp. strain PCC 7120. Microbiology (United Kingdom), 2007, 153, 601-607.	1.8	67
25	Epistasis Analysis of Four Genes from Anabaena sp. Strain PCC 7120 Suggests a Connection between PatA and PatS in Heterocyst Pattern Formation. Journal of Bacteriology, 2006, 188, 1808-1816.	2.2	44