

Roy D Welch

List of Publications by Year in descending order

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36
papers

1,487
citations

567281

15
h-index

454955

30
g-index

39
all docs

39
docs citations

39
times ranked

1738
citing authors

#	ARTICLE	IF	CITATIONS
1	Complete genome sequence of the myxobacterium <i>Sorangium cellulosum</i> . <i>Nature Biotechnology</i> , 2007, 25, 1281-1289.	17.5	354
2	Genome Sequences of Three <i>Agrobacterium</i> Biovars Help Elucidate the Evolution of Multichromosome Genomes in Bacteria. <i>Journal of Bacteriology</i> , 2009, 191, 2501-2511.	2.2	220
3	The Entomopathogenic Bacterial Endosymbionts <i>Xenorhabdus</i> and <i>Photorhabdus</i> : Convergent Lifestyles from Divergent Genomes. <i>PLoS ONE</i> , 2011, 6, e27909.	2.5	161
4	Waves and aggregation patterns in myxobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4256-4261.	7.1	97
5	Global Mutational Analysis of NtrC-Like Activators in <i>Myxococcus xanthus</i> : Identifying Activator Mutants Defective for Motility and Fruiting Body Development. <i>Journal of Bacteriology</i> , 2003, 185, 6083-6094.	2.2	86
6	Dynamics of Fruiting Body Morphogenesis. <i>Journal of Bacteriology</i> , 2004, 186, 919-927.	2.2	68
7	Self-Driven Phase Transitions Drive <i>Myxococcus xanthus</i> Fruiting Body Formation. <i>Physical Review Letters</i> , 2019, 122, 248102.	7.8	63
8	Ĥf54 Enhancer Binding Proteins and <i>Myxococcus xanthus</i> Fruiting Body Development. <i>Journal of Bacteriology</i> , 2004, 186, 4361-4368.	2.2	61
9	Rootbeer: Seamlessly Using GPUs from Java. , 2012, , .		52
10	Spatial Organization of <i>Myxococcus xanthus</i> during Fruiting Body Formation. <i>Journal of Bacteriology</i> , 2007, 189, 9126-9130.	2.2	50
11	Reconciliation of Sequence Data and Updated Annotation of the Genome of <i>Agrobacterium tumefaciens</i> C58, and Distribution of a Linear Chromosome in the Genus <i>Agrobacterium</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 1414-1417.	3.1	35
12	Functional genome annotation through phylogenomic mapping. <i>Nature Biotechnology</i> , 2005, 23, 691-698.	17.5	26
13	Predicting Prokaryotic Ecological Niches Using Genome Sequence Analysis. <i>PLoS ONE</i> , 2007, 2, e743.	2.5	26
14	Stable isotope dilution analysis of n-hexanoylglycine, 3-phenylpropionylglycine and suberylglycine in human urine using chemical ionization gas chromatography/mass spectrometry selected ion monitoring. <i>Biomedical & Environmental Mass Spectrometry</i> , 1989, 18, 471-477.	1.6	25
15	The Emerging World of Wikis. <i>Science</i> , 2008, 320, 1289-1290.	12.6	23
16	Quantifying Aggregation Dynamics during <i>Myxococcus xanthus</i> Development. <i>Journal of Bacteriology</i> , 2011, 193, 5164-5170.	2.2	21
17	Chemotaxis as an Emergent Property of a Swarm. <i>Journal of Bacteriology</i> , 2008, 190, 6811-6816.	2.2	20
18	Describing <i>Myxococcus xanthus</i> Aggregation Using Ostwald Ripening Equations for Thin Liquid Films. <i>Scientific Reports</i> , 2014, 4, 6376.	3.3	17

#	ARTICLE	IF	CITATIONS
19	Xanthusbase: adapting wikipedia principles to a model organism database. <i>Nucleic Acids Research</i> , 2007, 35, D422-D426.	14.5	13
20	Spreading rates of bacterial colonies depend on substrate stiffness and permeability. , 2022, 1, .		12
21	Inter-laboratory evolution of a model organism and its epistatic effects on mutagenesis screens. <i>Scientific Reports</i> , 2016, 6, 38001.	3.3	11
22	Phenotypic profiling of ABC transporter coding genes in <i>Myxococcus xanthus</i> . <i>Frontiers in Microbiology</i> , 2014, 5, 352.	3.5	8
23	A Markovian analysis of bacterial genome sequence constraints. <i>PeerJ</i> , 2013, 1, e127.	2.0	8
24	Identification of 2-(2-oxooctenyl) succinic acid in urine. <i>Rapid Communications in Mass Spectrometry</i> , 1990, 4, 170-172.	1.5	5
25	Practical Applications of Bacterial Functional Genomics. <i>Biotechnology and Genetic Engineering Reviews</i> , 2007, 24, 213-242.	6.2	5
26	Recording Multicellular Behavior in <i>Myxococcus xanthus</i> Biofilms using Time-lapse Microcinematography. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	5
27	If you build it, they might come. <i>Nature Reviews Microbiology</i> , 2009, 7, 90-90.	28.6	4
28	Bacterial Postgenomics: the Promise and Peril of Systems Biology. <i>Journal of Bacteriology</i> , 2006, 188, 7999-8004.	2.2	3
29	A Clp/Hsp100 Chaperone Functions in <i>Myxococcus xanthus</i> Sporulation and Self-Organization. <i>Journal of Bacteriology</i> , 2012, 194, 1689-1696.	2.2	3
30	The σ^{54} system directly regulates bacterial natural product genes. <i>Scientific Reports</i> , 2021, 11, 4771.	3.3	3
31	Simultaneous Measurement of Multiple mRNAs with a Single Control by Quantitative Competitive Reverse Transcriptase-Polymerase Chain Reaction: Glucose Transporters Glut1 and Glut4. <i>Analytical Biochemistry</i> , 1999, 268, 102-109.	2.4	1
32	Xanthusbase after five years expands to become Openmods. <i>Nucleic Acids Research</i> , 2012, 40, D1288-D1294.	14.5	1
33	Soot class loading in the rootbeer GPU compiler. , 2013, , .		0
34	Quantification of <i>Myxococcus xanthus</i> Aggregation and Rippling Behaviors: Deep-Learning Transformation of Phase-Contrast into Fluorescence Microscopy Images. <i>Microorganisms</i> , 2021, 9, 1954.	3.6	0
35	Profiling <i>Myxococcus xanthus</i> Swarming Phenotypes through Mutation and Environmental Variation. <i>Journal of Bacteriology</i> , 2021, 203, e0030621.	2.2	0
36	A Postgenomic Overview of the Myxobacteria. , 0, , 299-311.		0