

Roy D Welch

List of Publications by Year in descending order

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36
papers

1,487
citations

643344

15
h-index

511568

30
g-index

39
all docs

39
docs citations

39
times ranked

1961
citing authors

#	ARTICLE	IF	CITATIONS
1	Spreading rates of bacterial colonies depend on substrate stiffness and permeability. , 2022, 1, .		12
2	The If54 system directly regulates bacterial natural product genes. Scientific Reports, 2021, 11, 4771.	1.6	3
3	Quantification of Myxococcus xanthus Aggregation and Rippling Behaviors: Deep-Learning Transformation of Phase-Contrast into Fluorescence Microscopy Images. Microorganisms, 2021, 9, 1954.	1.6	0
4	Profiling <i>Myxococcus xanthus</i> Swarming Phenotypes through Mutation and Environmental Variation. Journal of Bacteriology, 2021, 203, e0030621.	1.0	0
5	Self-Driven Phase Transitions Drive <i>Myxococcus xanthus</i> Fruiting Body Formation. Physical Review Letters, 2019, 122, 248102.	2.9	63
6	Inter-laboratory evolution of a model organism and its epistatic effects on mutagenesis screens. Scientific Reports, 2016, 6, 38001.	1.6	11
7	Phenotypic profiling of ABC transporter coding genes in <i>Myxococcus xanthus</i> . Frontiers in Microbiology, 2014, 5, 352.	1.5	8
8	Describing <i>Myxococcus xanthus</i> Aggregation Using Ostwald Ripening Equations for Thin Liquid Films. Scientific Reports, 2014, 4, 6376.	1.6	17
9	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> . Applied and Environmental Microbiology, 2013, 79, 1414-1417.	1.4	35
10	Soot class loading in the rootbeer GPU compiler. , 2013, , .		0
11	A Markovian analysis of bacterial genome sequence constraints. PeerJ, 2013, 1, e127.	0.9	8
12	Xanthusbase after five years expands to become Openmods. Nucleic Acids Research, 2012, 40, D1288-D1294.	6.5	1
13	Rootbeer: Seamlessly Using GPUs from Java. , 2012, , .		52
14	A Clp/Hsp100 Chaperone Functions in <i>Myxococcus xanthus</i> Sporulation and Self-Organization. Journal of Bacteriology, 2012, 194, 1689-1696.	1.0	3
15	The Entomopathogenic Bacterial Endosymbionts <i>Xenorhabdus</i> and <i>Photorhabdus</i> : Convergent Lifestyles from Divergent Genomes. PLoS ONE, 2011, 6, e27909.	1.1	161
16	Quantifying Aggregation Dynamics during <i>Myxococcus xanthus</i> Development. Journal of Bacteriology, 2011, 193, 5164-5170.	1.0	21
17	Recording Multicellular Behavior in <i>Myxococcus xanthus</i> Biofilms using Time-lapse Microcinematography. Journal of Visualized Experiments, 2010, , .	0.2	5
18	Genome Sequences of Three <i>Agrobacterium</i> Biovars Help Elucidate the Evolution of Multichromosome Genomes in Bacteria. Journal of Bacteriology, 2009, 191, 2501-2511.	1.0	220

#	ARTICLE	IF	CITATIONS
19	If you build it, they might come. <i>Nature Reviews Microbiology</i> , 2009, 7, 90-90.	13.6	4
20	The Emerging World of Wikis. <i>Science</i> , 2008, 320, 1289-1290.	6.0	23
21	Chemotaxis as an Emergent Property of a Swarm. <i>Journal of Bacteriology</i> , 2008, 190, 6811-6816.	1.0	20
22	Spatial Organization of <i>Myxococcus xanthus</i> during Fruiting Body Formation. <i>Journal of Bacteriology</i> , 2007, 189, 9126-9130.	1.0	50
23	Xanthusbase: adapting wikipedia principles to a model organism database. <i>Nucleic Acids Research</i> , 2007, 35, D422-D426.	6.5	13
24	Practical Applications of Bacterial Functional Genomics. <i>Biotechnology and Genetic Engineering Reviews</i> , 2007, 24, 213-242.	2.4	5
25	Complete genome sequence of the myxobacterium <i>Sorangium cellulosum</i> . <i>Nature Biotechnology</i> , 2007, 25, 1281-1289.	9.4	354
26	Predicting Prokaryotic Ecological Niches Using Genome Sequence Analysis. <i>PLoS ONE</i> , 2007, 2, e743.	1.1	26
27	Bacterial Postgenomics: the Promise and Peril of Systems Biology. <i>Journal of Bacteriology</i> , 2006, 188, 7999-8004.	1.0	3
28	Functional genome annotation through phylogenomic mapping. <i>Nature Biotechnology</i> , 2005, 23, 691-698.	9.4	26
29	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.	3.3	97
30	54 Enhancer Binding Proteins and <i>Myxococcus xanthus</i> Fruiting Body Development. <i>Journal of Bacteriology</i> , 2004, 186, 4361-4368.	1.0	61
31	Dynamics of Fruiting Body Morphogenesis. <i>Journal of Bacteriology</i> , 2004, 186, 919-927.	1.0	68
32	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.	1.0	86
33	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.	1.1	1
34	Identification of 2-(2-octenyl) succinic acid in urine. <i>Rapid Communications in Mass Spectrometry</i> , 1990, 4, 170-172.	0.7	5
35	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
36	A Postgenomic Overview of the Myxobacteria. , 0, , 299-311.		0