

Timothy J Donohue

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1791142/publications.pdf>

Version: 2024-02-01

162
papers

6,219
citations

66234

42
h-index

88477

70
g-index

169
all docs

169
docs citations

169
times ranked

5727
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular phylogeny of Archaea from soil. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 277-282.	3.3	333
2	An Insect Herbivore Microbiome with High Plant Biomass-Degrading Capacity. PLoS Genetics, 2010, 6, e1001129.	1.5	213
3	Construction, characterization, and complementation of a Puf- mutant of Rhodobacter sphaeroides. Journal of Bacteriology, 1988, 170, 320-329.	1.0	196
4	Genomic Encyclopedia of Bacteria and Archaea: Sequencing a Myriad of Type Strains. PLoS Biology, 2014, 12, e1001920.	2.6	190
5	Bacterial responses to photo-oxidative stress. Nature Reviews Microbiology, 2009, 7, 856-863.	13.6	183
6	Cloning, DNA sequence, and expression of the Rhodobacter sphaeroides cytochrome c2 gene. Journal of Bacteriology, 1986, 168, 962-972.	1.0	154
7	A transcriptional response to singlet oxygen, a toxic byproduct of photosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6502-6507.	3.3	143
8	A Conserved Structural Module Regulates Transcriptional Responses to Diverse Stress Signals in Bacteria. Molecular Cell, 2007, 27, 793-805.	4.5	136
9	The home stretch, a first analysis of the nearly completed genome of Rhodobacter sphaeroides 2.4.1. Photosynthesis Research, 2001, 70, 19-41.	1.6	129
10	Toward a Predictive Understanding of Earth's Microbiomes to Address 21st Century Challenges. MBio, 2016, 7, .	1.8	124
11	Phenotypic and genetic characterization of cytochrome c2-deficient mutants of Rhodobacter sphaeroides. Biochemistry, 1988, 27, 1918-1925.	1.2	121
12	Development of a solar-powered microbial fuel cell. Journal of Applied Microbiology, 2008, 104, 640-650.	1.4	100
13	H-NOX-mediated nitric oxide sensing modulates symbiotic colonization by <i>Vibrio fischeri</i> . Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8375-8380.	3.3	100
14	Increasing the economic value of lignocellulosic stillage through medium-chain fatty acid production. Biotechnology for Biofuels, 2018, 11, 200.	6.2	99
15	[22] Genetic techniques in rhodospirillaceae. Methods in Enzymology, 1991, 204, 459-485.	0.4	98
16	Biochemical transformation of lignin for deriving valued commodities from lignocellulose. Current Opinion in Biotechnology, 2017, 45, 120-126.	3.3	95
17	DNA sequence and in vitro expression of the B875 light-harvesting polypeptides of Rhodobacter sphaeroides. Journal of Bacteriology, 1987, 169, 742-750.	1.0	90
18	Expression of the Rhodobacter sphaeroides cytochrome c2 structural gene. Journal of Bacteriology, 1989, 171, 360-368.	1.0	80

#	ARTICLE	IF	CITATIONS
19	A Group of Sequence-Related Sphingomonad Enzymes Catalyzes Cleavage of β^2 -Aryl Ether Linkages in Lignin β^2 -Guaiacyl and β^2 -Syringyl Ether Dimers. <i>Environmental Science & Technology</i> , 2014, 48, 12454-12463.	4.6	80
20	Funneling aromatic products of chemically depolymerized lignin into 2-pyrone-4-6-dicarboxylic acid with <i>Novosphingobium aromaticivorans</i> . <i>Green Chemistry</i> , 2019, 21, 1340-1350.	4.6	79
21	Differences in two <i>Pseudomonas aeruginosa</i> cbb3 cytochrome oxidases. <i>Molecular Microbiology</i> , 2004, 51, 1193-1203.	1.2	75
22	Control of photosynthetic membrane assembly in <i>Rhodobacter sphaeroides</i> mediated by puhA and flanking sequences. <i>Journal of Bacteriology</i> , 1989, 171, 436-446.	1.0	73
23	Cloning and expression of the <i>Rhodobacter sphaeroides</i> reaction center H gene. <i>Journal of Bacteriology</i> , 1986, 168, 953-961.	1.0	70
24	Metatranscriptomic and Thermodynamic Insights into Medium-Chain Fatty Acid Production Using an Anaerobic Microbiome. <i>MSystems</i> , 2018, 3, .	1.7	69
25	iRsp1095: A genome-scale reconstruction of the <i>Rhodobacter sphaeroides</i> metabolic network. <i>BMC Systems Biology</i> , 2011, 5, 116.	3.0	68
26	Organization and Evolution of the Biological Response to Singlet Oxygen Stress. <i>Journal of Molecular Biology</i> , 2008, 383, 713-730.	2.0	65
27	Conservation of thiol-oxidative stress responses regulated by SigR orthologues in actinomycetes. <i>Molecular Microbiology</i> , 2012, 85, 326-344.	1.2	65
28	<i>Pseudomonas aeruginosa</i> RoxR, a response regulator related to <i>Rhodobacter sphaeroides</i> PrrA, activates expression of the cyanide-insensitive terminal oxidase. <i>Molecular Microbiology</i> , 2002, 45, 755-768.	1.2	63
29	The importance of zinc-binding to the function of <i>Rhodobacter sphaeroides</i> ChrR as an anti-sigma factor. <i>Journal of Molecular Biology</i> , 2001, 313, 485-499.	2.0	62
30	Identification of proteins involved in formaldehyde metabolism by <i>Rhodobacter sphaeroides</i> . <i>Microbiology (United Kingdom)</i> , 2008, 154, 296-305.	0.7	62
31	Reconstruction of the Core and Extended Regulons of Global Transcription Factors. <i>PLoS Genetics</i> , 2010, 6, e1001027.	1.5	62
32	Stereochemical Features of Glutathione-dependent Enzymes in the <i>Sphingobium</i> sp. Strain SYK-6 β^2 -Aryl Etherase Pathway. <i>Journal of Biological Chemistry</i> , 2014, 289, 8656-8667.	1.6	58
33	Interactions Between the <i>Rhodobacter sphaeroides</i> ECF Sigma Factor, σ^E , and its Anti-sigma Factor, ChrR. <i>Journal of Molecular Biology</i> , 2004, 341, 345-360.	2.0	56
34	Transcriptional Activation of the <i>Rhodobacter sphaeroides</i> Cytochrome c2 Gene P2 Promoter by the Response Regulator PrrA. <i>Journal of Bacteriology</i> , 2002, 184, 390-399.	1.0	55
35	In vivo analysis of puf operon expression in <i>Rhodobacter sphaeroides</i> after deletion of a putative intercistronic transcription terminator. <i>Journal of Bacteriology</i> , 1988, 170, 4681-4692.	1.0	53
36	Metabolism of Multiple Aromatic Compounds in Corn Stover Hydrolysate by <i>Rhodospseudomonas palustris</i> . <i>Environmental Science & Technology</i> , 2015, 49, 8914-8922.	4.6	51

#	ARTICLE	IF	CITATIONS
37	Function of a Glutathione-Dependent Formaldehyde Dehydrogenase in <i>Rhodobacter sphaeroides</i> Formaldehyde Oxidation and Assimilation. <i>Biochemistry</i> , 1998, 37, 530-537.	1.2	50
38	Whole-Genome Shotgun Optical Mapping of <i>Rhodobacter sphaeroides</i> strain 2.4.1 and Its Use for Whole-Genome Shotgun Sequence Assembly. <i>Genome Research</i> , 2003, 13, 2142-2151.	2.4	49
39	Synthesis and scavenging role of furan fatty acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3450-7.	3.3	49
40	<i>Novosphingobium aromaticivorans</i> uses a Nu-class glutathione S-transferase as a glutathione lyase in breaking the β^2 -aryl ether bond of lignin. <i>Journal of Biological Chemistry</i> , 2018, 293, 4955-4968.	1.6	48
41	Characterization of a glutathione-dependent formaldehyde dehydrogenase from <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 1996, 178, 1386-1393.	1.0	46
42	Global insights into energetic and metabolic networks in <i>Rhodobacter sphaeroides</i> . <i>BMC Systems Biology</i> , 2013, 7, 89.	3.0	46
43	The <i>Rhodobacter sphaeroides</i> ECF sigma factor, σ^{fE} , and the target promoters <i>cycA</i> P3 and <i>rpoE</i> P1. <i>Journal of Molecular Biology</i> , 1999, 294, 307-320.	2.0	45
44	Phylogenomic Analysis and Predicted Physiological Role of the Proton-Translocating NADH:Quinone Oxidoreductase (Complex I) Across Bacteria. <i>MBio</i> , 2015, 6, .	1.8	44
45	Structural and Biochemical Characterization of the Early and Late Enzymes in the Lignin β^2 -Aryl Ether Cleavage Pathway from <i>Sphingobium</i> sp. SYK-6. <i>Journal of Biological Chemistry</i> , 2016, 291, 10228-10238.	1.6	44
46	Application of the Accurate Mass and Time Tag Approach to the Proteome Analysis of Sub-cellular Fractions Obtained from <i>Rhodobacter sphaeroides</i> 2.4.1. Aerobic and Photosynthetic Cell Cultures. <i>Journal of Proteome Research</i> , 2006, 5, 1940-1947.	1.8	43
47	Combining Genome-Scale Experimental and Computational Methods To Identify Essential Genes in <i>Rhodobacter sphaeroides</i> . <i>MSystems</i> , 2017, 2, .	1.7	43
48	Convergence of the Transcriptional Responses to Heat Shock and Singlet Oxygen Stresses. <i>PLoS Genetics</i> , 2012, 8, e1002929.	1.5	42
49	Medium-Chain Fatty Acid Synthesis by <i>Candidatus</i> <i>Weimeria bifida</i> gen. nov., sp. nov., and <i>Candidatus</i> <i>Pseudoramibacter fermentans</i> sp. nov. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	42
50	Biosynthesis of the photosynthetic membranes of <i>rhodospseudomonas sphaeroides</i> . <i>Journal of Cellular Biochemistry</i> , 1983, 22, 15-29.	1.2	41
51	Electron Partitioning During Light- and Nutrient-Powered Hydrogen Production by <i>Rhodobacter sphaeroides</i> . <i>Bioenergy Research</i> , 2010, 3, 55-66.	2.2	41
52	Pathways Involved in Reductant Distribution during Photobiological H_2 Production by <i>Rhodobacter sphaeroides</i> . <i>Applied and Environmental Microbiology</i> , 2011, 77, 7425-7429.	1.4	41
53	<i>In Vitro</i> Enzymatic Depolymerization of Lignin with Release of Syringyl, Guaiacyl, and Tricin Units. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	41
54	Activation of the <i>cycA</i> P2 promoter for the <i>Rhodobacter sphaeroides</i> cytochrome <i>c2</i> gene by the photosynthesis response regulator. <i>Molecular Microbiology</i> , 1999, 34, 822-835.	1.2	40

#	ARTICLE	IF	CITATIONS
55	Extracytoplasmic function σ factors of the widely distributed group ECF41 contain a fused regulatory domain. <i>MicrobiologyOpen</i> , 2012, 1, 194-213.	1.2	40
56	Structural Basis of Stereospecificity in the Bacterial Enzymatic Cleavage of β -Aryl Ether Bonds in Lignin. <i>Journal of Biological Chemistry</i> , 2016, 291, 5234-5246.	1.6	40
57	Metabolic Roles of a <i>Rhodobacter sphaeroides</i> Member of the σ , 32 Family. <i>Journal of Bacteriology</i> , 1998, 180, 10-19.	1.0	40
58	Comparison of aerobic and photosynthetic <i>Rhodobacter sphaeroides</i> 2.4.1 proteomes. <i>Journal of Microbiological Methods</i> , 2006, 67, 424-436.	0.7	39
59	Link between the Membrane-Bound Pyridine Nucleotide Transhydrogenase and Glutathione-Dependent Processes in <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 2002, 184, 400-409.	1.0	38
60	Activity of <i>Rhodobacter sphaeroides</i> RpoH II, a Second Member of the Heat Shock Sigma Factor Family. <i>Journal of Bacteriology</i> , 2006, 188, 5712-5721.	1.0	38
61	Transcription Activation by CooA, the CO-sensing Factor from <i>Rhodospirillum rubrum</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 10840-10845.	1.6	37
62	Revised Sequence and Annotation of the <i>Rhodobacter sphaeroides</i> 2.4.1 Genome. <i>Journal of Bacteriology</i> , 2012, 194, 7016-7017.	1.0	36
63	Purification and characterization of an N-acylphosphatidylserine from <i>Rhodopseudomonas sphaeroides</i> . <i>Biochemistry</i> , 1982, 21, 2765-2773.	1.2	35
64	Expression of a cytochrome c2 isozyme restores photosynthetic growth of <i>Rhodobacter sphaeroides</i> mutants lacking the wild-type cytochrome c2 gene. <i>Archives of Biochemistry and Biophysics</i> , 1989, 271, 502-507.	1.4	35
65	Pathways for transcriptional activation of a glutathione-dependent formaldehyde dehydrogenase gene 1. Edited by M. Gottesman. <i>Journal of Molecular Biology</i> , 1998, 280, 775-784.	2.0	35
66	Transcription properties of RNA polymerase holoenzymes isolated from the purple nonsulfur bacterium <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 1993, 175, 7629-7638.	1.0	34
67	Synthesis of <i>Rhodobacter sphaeroides</i> cytochrome c2 in <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 1989, 59, 253-258.	0.7	33
68	Proteomic Characterization of the <i>Rhodobacter sphaeroides</i> 2.4.1 Photosynthetic Membrane: Identification of New Proteins. <i>Journal of Bacteriology</i> , 2007, 189, 7464-7474.	1.0	33
69	A heterodimeric glutathione S-transferase that stereospecifically breaks lignin's β (R)-aryl ether bond reveals the diversity of bacterial β -etherases. <i>Journal of Biological Chemistry</i> , 2019, 294, 1877-1890.	1.6	32
70	Specificity of the attenuation response of the threonine operon of <i>Escherichia coli</i> is determined by the threonine and isoleucine codons in the leader transcript. <i>Journal of Molecular Biology</i> , 1987, 194, 59-69.	2.0	31
71	Global Analysis of Photosynthesis Transcriptional Regulatory Networks. <i>PLoS Genetics</i> , 2014, 10, e1004837.	1.5	31
72	The <i>puf</i> operon region of <i>Rhodobacter sphaeroides</i> . <i>Photosynthesis Research</i> , 1988, 19, 39-61.	1.6	30

#	ARTICLE	IF	CITATIONS
73	A Computational Strategy to Analyze Label-Free Temporal Bottom-Up Proteomics Data. <i>Journal of Proteome Research</i> , 2008, 7, 2595-2604.	1.8	29
74	<i>Rhodobacter sphaeroides</i> spd mutations allow cytochrome c2-independent photosynthetic growth. <i>Journal of Bacteriology</i> , 1990, 172, 1954-1961.	1.0	28
75	A new and specific assay for ammonia and glutamine sensitive to 100 pmol. <i>Analytical Biochemistry</i> , 1978, 90, 47-57.	1.1	27
76	Evidence for two promoters for the cytochrome c2 gene (<i>cycA</i>) of <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 1991, 173, 3949-3957.	1.0	26
77	A Cardiolipin-Deficient Mutant of <i>Rhodobacter sphaeroides</i> Has an Altered Cell Shape and Is Impaired in Biofilm Formation. <i>Journal of Bacteriology</i> , 2015, 197, 3446-3455.	1.0	26
78	Transcriptional control of several aerobically induced cytochrome structural genes in <i>Rhodobacter sphaeroides</i> . <i>Microbiology (United Kingdom)</i> , 1997, 143, 3101-3110.	0.7	25
79	Identification of Genes Required for Recycling Reducing Power during Photosynthetic Growth. <i>Journal of Bacteriology</i> , 2005, 187, 5249-5258.	1.0	25
80	Development of the bacterial photosynthetic apparatus. <i>Current Opinion in Microbiology</i> , 2006, 9, 625-631.	2.3	25
81	Î-Aminolevulinate couples <i>cycA</i> transcription to changes in heme availability in <i>Rhodobacter sphaeroides</i> . <i>Journal of Molecular Biology</i> , 1992, 226, 101-115.	2.0	24
82	Microorganisms and clean energy. <i>Nature Reviews Microbiology</i> , 2006, 4, 800-800.	13.6	24
83	Proteins Needed to Activate a Transcriptional Response to the Reactive Oxygen Species Singlet Oxygen. <i>MBio</i> , 2013, 4, e00541-12.	1.8	24
84	chipD: a web tool to design oligonucleotide probes for high-density tiling arrays. <i>Nucleic Acids Research</i> , 2010, 38, W321-W325.	6.5	23
85	An Integrated Approach to Reconstructing Genome-Scale Transcriptional Regulatory Networks. <i>PLoS Computational Biology</i> , 2015, 11, e1004103.	1.5	23
86	Activation of the Global Gene Regulator PrrA (RegA) from <i>Rhodobacter sphaeroides</i> . <i>Biochemistry</i> , 2006, 45, 7872-7881.	1.2	22
87	In Vitro and In Vivo Analysis of the Role of PrrA in <i>Rhodobacter sphaeroides</i> 2.4.1 hemA Gene Expression. <i>Journal of Bacteriology</i> , 2006, 188, 3208-3218.	1.0	22
88	The NtrYX Two-Component System Regulates the Bacterial Cell Envelope. <i>MBio</i> , 2020, 11, .	1.8	22
89	Features of <i>Rhodobacter sphaeroides</i> ChrR Required for Stimuli to Promote the Dissociation of ÎfE/ChrR Complexes. <i>Journal of Molecular Biology</i> , 2011, 407, 477-491.	2.0	21
90	Hierarchical Regulation of Photosynthesis Gene Expression by the Oxygen-Responsive PrrBA and AppA-PpsR Systems of <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 2008, 190, 8106-8114.	1.0	20

#	ARTICLE	IF	CITATIONS
91	Maximizing reductant flow into microbial H ₂ production. <i>Current Opinion in Biotechnology</i> , 2012, 23, 382-389.	3.3	20
92	Diagnosing and Predicting Mixed-Culture Fermentations with Unicellular and Guild-Based Metabolic Models. <i>MSystems</i> , 2020, 5, .	1.7	20
93	Integrating lignin depolymerization with microbial funneling processes using agronomically relevant feedstocks. <i>Green Chemistry</i> , 2022, 24, 2795-2811.	4.6	20
94	Purification of <i>Rhodobacter sphaeroides</i> RNA Polymerase and Its Sigma Factors. <i>Methods in Enzymology</i> , 2003, 370, 54-65.	0.4	19
95	Transcription of the <i>Rhodobacter sphaeroides</i> <i>cycA</i> P1 Promoter by Alternate RNA Polymerase Holoenzymes. <i>Journal of Bacteriology</i> , 1998, 180, 1-9.	1.0	19
96	Discovery of the extracytoplasmic function σ factors. <i>Molecular Microbiology</i> , 2019, 112, 348-355.	1.2	18
97	A bacterial biosynthetic pathway for methylated furan fatty acids. <i>Journal of Biological Chemistry</i> , 2020, 295, 9786-9801.	1.6	18
98	Characterization of <i>Rhodobacter sphaeroides</i> Cytochrome c ₂ Proteins with Altered Heme Attachment Sites. <i>Archives of Biochemistry and Biophysics</i> , 2001, 389, 234-244.	1.4	17
99	A <i>Rhodobacter sphaeroides</i> Protein Mechanistically Similar to <i>Escherichia coli</i> DksA Regulates Photosynthetic Growth. <i>MBio</i> , 2014, 5, e01105-14.	1.8	16
100	Different Functions of Phylogenetically Distinct Bacterial Complex I Isozymes. <i>Journal of Bacteriology</i> , 2016, 198, 1268-1280.	1.0	16
101	Redundancy in Aromatic <i>o</i> -Demethylation and Ring-Opening Reactions in <i>Novosphingobium aromaticivorans</i> and Their Impact in the Metabolism of Plant-Derived Phenolics. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	16
102	Diverse Profile of Fermentation Byproducts From Thin Stillage. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 695306.	2.0	16
103	Regulation of a cytochrome c ₂ isoform in wild-type and cytochrome c ₂ mutant strains of <i>Rhodobacter sphaeroides</i> . <i>Archives of Biochemistry and Biophysics</i> , 1992, 292, 576-582.	1.4	15
104	Quantifying the effects of light intensity on bioproduction and maintenance energy during photosynthetic growth of <i>Rhodobacter sphaeroides</i> . <i>Photosynthesis Research</i> , 2015, 123, 167-182.	1.6	15
105	Effect of cultural conditions on the concentrations of metabolic intermediates during growth and sporulation of <i>Bacillus licheniformis</i> . <i>Journal of Bacteriology</i> , 1978, 135, 363-372.	1.0	15
106	Reactions of Isocytochrome c ₂ in the Photosynthetic Electron Transfer Chain of <i>Rhodobacter sphaeroides</i> . <i>Biochemistry</i> , 1997, 36, 903-911.	1.2	14
107	Cytochromes, Iron-Sulfur, and Copper Proteins Mediating Electron Transfer from the Cyt bc ₁ Complex to Photosynthetic Reaction Center Complexes. , 1995, , 725-745.		14
108	A majority of <i>Rhodobacter sphaeroides</i> promoters lack a crucial RNA polymerase recognition feature, enabling coordinated transcription activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29658-29668.	3.3	14

#	ARTICLE	IF	CITATIONS
109	Features of <i>Rhodobacter sphaeroides</i> CcmFH. <i>Journal of Bacteriology</i> , 2003, 185, 422-431.	1.0	13
110	Rewiring the specificity of extracytoplasmic function sigma factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33496-33506.	3.3	13
111	CceR and AkgR Regulate Central Carbon and Energy Metabolism in Alphaproteobacteria. <i>MBio</i> , 2015, 6, .	1.8	12
112	Synthesis of <i>Rhodobacter sphaeroides</i> cytochrome c2 in <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 1989, 50, 253-8.	0.7	12
113	Enzymes of Glutamate and Glutamine Biosynthesis in <i>Bacillus licheniformis</i> . <i>Current Topics in Cellular Regulation</i> , 1984, 24, 145-152.	9.6	12
114	Genetic and physical mapping of the <i>Rhodobacter sphaeroides</i> photosynthetic gene cluster from R-prime pWS2. <i>Plasmid</i> , 1991, 25, 163-176.	0.4	11
115	Organization and expression of the <i>Rhodobacter sphaeroides</i> cycFG operon. <i>Journal of Bacteriology</i> , 1995, 177, 4311-4320.	1.0	11
116	The US Department of Energy Great Lakes Bioenergy Research Center: Midwestern Biomass as a Resource for Renewable Fuels. <i>Bioenergy Research</i> , 2010, 3, 3-5.	2.2	11
117	Oxygen-Dependent Regulation of Bacterial Lipid Production. <i>Journal of Bacteriology</i> , 2015, 197, 1649-1658.	1.0	11
118	A High-Throughput Method for Identifying Novel Genes That Influence Metabolic Pathways Reveals New Iron and Heme Regulation in <i>Pseudomonas aeruginosa</i> . <i>MSystems</i> , 2021, 6, .	1.7	11
119	Mixed Acid Fermentation of Carbohydrate-Rich Dairy Manure Hydrolysate. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 724304.	2.0	11
120	Positive and Negative Transcriptional Regulators of Glutathione-Dependent Formaldehyde Metabolism. <i>Journal of Bacteriology</i> , 2004, 186, 7914-7925.	1.0	10
121	Mutational analysis of the C-terminal domain of the <i>Rhodobacter sphaeroides</i> response regulator PrrA. <i>Microbiology (United Kingdom)</i> , 2005, 151, 4103-4110.	0.7	10
122	Microbes in the Energy Grid. <i>Science</i> , 2008, 320, 985-985.	6.0	10
123	Mutations That Alter the Bacterial Cell Envelope Increase Lipid Production. <i>MBio</i> , 2017, 8, .	1.8	10
124	Shedding light on a Group IV (ECF11) alternative σ factor. <i>Molecular Microbiology</i> , 2019, 112, 374-384.	1.2	10
125	Benzoyl Coenzyme A Pathway-Mediated Metabolism of <i>meta</i> -Hydroxy-Aromatic Acids in <i>Rhodospseudomonas palustris</i> . <i>Journal of Bacteriology</i> , 2013, 195, 4112-4120.	1.0	9
126	Anaerobic Degradation of Syringic Acid by an Adapted Strain of <i>Rhodospseudomonas palustris</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	9

#	ARTICLE	IF	CITATIONS
127	Genome-Wide Identification of Transcription Start Sites in Two <i>Alphaproteobacteria</i> , <i>Rhodobacter sphaeroides</i> 2.4.1 and <i>Novosphingobium aromaticivorans</i> DSM 12444. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.3	8
128	Use of an adenosine triphosphate analog, adenylyl imidodiphosphate, to evaluate adenosine triphosphate-dependent reactions in mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1976, 173, 231-236.	1.4	7
129	The essential <i>Rhodobacter sphaeroides</i> CenKR two-component system regulates cell division and envelope biosynthesis. <i>PLoS Genetics</i> , 2022, 18, e1010270.	1.5	7
130	Targeted λ factor turnover inserts negative control into a positive feedback loop. <i>Molecular Microbiology</i> , 2009, 73, 747-750.	1.2	6
131	Signal Correlations in Ecological Niches Can Shape the Organization and Evolution of Bacterial Gene Regulatory Networks. <i>Advances in Microbial Physiology</i> , 2012, 61, 1-36.	1.0	6
132	Promoter Architecture Differences among <i>Alphaproteobacteria</i> and Other Bacterial Taxa. <i>MSystems</i> , 2021, 6, e0052621.	1.7	6
133	Roles for the <i>Rhodobacter sphaeroides</i> CcmA and CcmG Proteins. <i>Journal of Bacteriology</i> , 2001, 183, 4643-4647.	1.0	5
134	The role of dor gene products in controlling the P2 promoter of the cytochrome c 2 gene, <i>cycA</i> , in <i>Rhodobacter sphaeroides</i> . <i>Microbiology (United Kingdom)</i> , 2004, 150, 1893-1899.	0.7	5
135	Chemistry and combustion of fit-for-purpose biofuels. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 522-528.	2.8	5
136	Aromatic Dimer Dehydrogenases from <i>Novosphingobium aromaticivorans</i> Reduce Monoaromatic Diketones. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0174221.	1.4	5
137	Eubacterial signal transduction by ligands of the mammalian peripheral benzodiazepine receptor complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 4821-4822.	3.3	4
138	Optimizing ethanol production selectivity. <i>Mathematical and Computer Modelling</i> , 2011, 53, 1363-1373.	2.0	4
139	Kinetic modeling of anaerobic degradation of plant-derived aromatic mixtures by <i>Rhodopseudomonas palustris</i> . <i>Biodegradation</i> , 2021, 32, 179-192.	1.5	4
140	Genetic Analysis of Photosynthetic Membrane Biogenesis in <i>Rhodobacter sphaeroides</i> . , 1993, , 101-131.		4
141	Global Responses of Bacteria to Oxygen Deprivation. , 2014, , 175-189.		3
142	CONtORT: COMprehensive Transcriptomic ORganizational Tool for Simultaneously Retrieving and Organizing Numerous Gene Expression Data Sets from the NCBI Gene Expression Omnibus Database. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.3	3
143	Exploring the Meta-regulon of the CRP/FNR Family of Global Transcriptional Regulators in a Partial-Nitritation Anammox Microbiome. <i>MSystems</i> , 2021, 6, e0090621.	1.7	3
144	iNovo479: Metabolic Modeling Provides a Roadmap to Optimize Bioproduct Yield from Deconstructed Lignin Aromatics by <i>Novosphingobium aromaticivorans</i> . <i>Metabolites</i> , 2022, 12, 366.	1.3	3

#	ARTICLE	IF	CITATIONS
145	Soluble Cytochrome Synthesis in Rhodobacter Sphaeroides. , 1990, , 95-104.		2
146	Purple Bacterial Genomics. Advances in Photosynthesis and Respiration, 2009, , 691-706.	1.0	2
147	Metagenome-Assembled Genomes from a Microbiome Converting Xylose to Medium-Chain Carboxylic Acids. Microbiology Resource Announcements, 2022, 11, e0115121.	0.3	2
148	Metagenomes from 25 Low-Abundance Microbes in a Partial Nitritation Anammox Microbiome. Microbiology Resource Announcements, 2022, 11, e0021222.	0.3	2
149	Metagenomes and Metagenome-Assembled Genomes from Microbial Communities Fermenting Ultrafiltered Milk Permeate. Microbiology Resource Announcements, 2022, 11, .	0.3	2
150	Policy proposal for publication of papers with data sets from genome-wide studies. Microbiology (United Kingdom), 2004, 150, 3521-3522.	0.7	1
151	Q&A roundtable on US bioenergy research. Industrial Biotechnology, 2011, 7, 264-266.	0.5	1
152	Deletion of the ntrYX Two Component System in Rhodobacter sphaeroides Causes the Generation of Diverse Extracellular Membrane Structures. Microscopy and Microanalysis, 2020, 26, 2522-2523.	0.2	1
153	Delila-PY, a Pipeline for Utilizing the Delila Suite of Software to Identify Potential DNA Binding Motifs. Microbiology Resource Announcements, 2021, 10, .	0.3	1
154	The role of zinc in function of the Rhodobacter sphaeroides anti-sigma factor ChrR. Journal of Inorganic Biochemistry, 2003, 96, 77.	1.5	0
155	Policy proposal for publication of papers with data sets from genome-wide studies. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 1915-1915.	0.8	0
156	Great Lakes Bioenergy Research Center. Industrial Biotechnology, 2011, 7, 255-256.	0.5	0
157	Interview with Professor Timothy Donohue. Biofuels, 2013, 4, 255-258.	1.4	0
158	Form and function of the condensed bacterial nucleoid studied by cryo-ET. Microscopy and Microanalysis, 2021, 27, 3020-3022.	0.2	0
159	Electron Partitioning in Anoxic Phototrophic Bacteria. Advances in Photosynthesis and Respiration, 2016, , 679-700.	1.0	0
160	Using Genome Scale Mutant Libraries to Identify Essential Genes. Methods in Molecular Biology, 2022, 2377, 215-236.	0.4	0
161	Editorial overview: Microbial activities powering society. Current Opinion in Microbiology, 2022, 67, 102144.	2.3	0
162	Correction for Beach et al., "Exploring the Meta-regulon of the CRP/FNR Family of Global Transcriptional Regulators in a Partial-Nitritation Anammox Microbiome" MSSystems, 2022, , e0021322.	1.7	0