

Daniel J Gage

List of Publications by Year in descending order

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40
papers

2,131
citations

430874

18
h-index

330143

37
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47
all docs

47
docs citations

47
times ranked

2217
citing authors

#	ARTICLE	IF	CITATIONS
1	Infection and Invasion of Roots by Symbiotic, Nitrogen-Fixing Rhizobia during Nodulation of Temperate Legumes. <i>Microbiology and Molecular Biology Reviews</i> , 2004, 68, 280-300.	6.6	709
2	Use of green fluorescent protein to visualize the early events of symbiosis between <i>Rhizobium meliloti</i> and alfalfa (<i>Medicago sativa</i>). <i>Journal of Bacteriology</i> , 1996, 178, 7159-7166.	2.2	237
3	Analysis of Infection Thread Development Using Gfp- and DsRed-Expressing <i>Sinorhizobium meliloti</i> . <i>Journal of Bacteriology</i> , 2002, 184, 7042-7046.	2.2	188
4	Galactosides in the rhizosphere: Utilization by <i>Sinorhizobium meliloti</i> and development of a biosensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 4540-4545.	7.1	145
5	Synergistic effects of soil microstructure and bacterial EPS on drying rate in emulated soil micromodels. <i>Soil Biology and Biochemistry</i> , 2015, 83, 116-124.	8.8	102
6	Resource Exchange in the Rhizosphere: Molecular Tools and the Microbial Perspective. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2006, 37, 459-488.	8.3	97
7	Hanging by a thread: invasion of legume plants by rhizobia. <i>Current Opinion in Microbiology</i> , 2000, 3, 613-617.	5.1	92
8	Architecture of Infection Thread Networks in Developing Root Nodules Induced by the Symbiotic Bacterium <i>Sinorhizobium meliloti</i> on <i>Medicago truncatula</i> Å Å. <i>Plant Physiology</i> , 2006, 140, 661-670.	4.8	44
9	<i>Sinorhizobium meliloti</i> Mutants Lacking Phosphotransferase System Enzyme HPr or EIIA Are Altered in Diverse Processes, Including Carbon Metabolism, Cobalt Requirements, and Succinoglycan Production. <i>Journal of Bacteriology</i> , 2008, 190, 2947-2956.	2.2	42
10	Î±-Galactoside Uptake in <i>Rhizobium meliloti</i> : Isolation and Characterization of <i>agpA</i> , a Gene Encoding a Periplasmic Binding Protein Required for Melibiose and Raffinose Utilization. <i>Journal of Bacteriology</i> , 1998, 180, 5739-5748.	2.2	42
11	Biochemical Characterization of a Nitrogen-Type Phosphotransferase System Reveals that Enzyme EI ^{Ntr} Integrates Carbon and Nitrogen Signaling in <i>Sinorhizobium meliloti</i> . <i>Journal of Bacteriology</i> , 2014, 196, 1901-1907.	2.2	35
12	HPrK Regulates Succinate-Mediated Catabolite Repression in the Gram-Negative Symbiont <i>Sinorhizobium meliloti</i> . <i>Journal of Bacteriology</i> , 2009, 191, 298-309.	2.2	32
13	Control of Inducer Accumulation Plays a Key Role in Succinate-Mediated Catabolite Repression in <i>Sinorhizobium meliloti</i> . <i>Journal of Bacteriology</i> , 2002, 184, 5385-5392.	2.2	31
14	Pore-scale water dynamics during drying and the impacts of structure and surface wettability. <i>Water Resources Research</i> , 2017, 53, 5585-5600.	4.2	31
15	Bacterial Extracellular Polymeric Substances Amplify Water Content Variability at the Pore Scale. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	30
16	Characterization of a Two-Component Regulatory System That Regulates Succinate-Mediated Catabolite Repression in <i>Sinorhizobium meliloti</i> . <i>Journal of Bacteriology</i> , 2010, 192, 5725-5735.	2.2	27
17	Protist-Facilitated Particle Transport Using Emulated Soil Micromodels. <i>Environmental Science & Technology</i> , 2015, 49, 1384-1391.	10.0	24
18	Micro-scale water potential gradients visualized in soil around plant root tips using microbiosensors. <i>Plant, Cell and Environment</i> , 2010, 33, 199-210.	5.7	23

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19	Development and application of aerobic, chemically defined media for <i>Dysgonomonas</i> . <i>Anaerobe</i> , 2021, 67, 102302.	2.1	21
20	In vitro developmental toxicity of five direct-acting alkylating agents in rodent embryos: Structure-activity patterns. <i>Teratology</i> , 1989, 40, 199-210.	1.6	18
21	Better to light a candle than curse the darkness: illuminating spatial localization and temporal dynamics of rapid microbial growth in the rhizosphere. <i>Frontiers in Plant Science</i> , 2013, 4, 323.	3.6	18
22	Optogenetics in <i>Sinorhizobium meliloti</i> Enables Spatial Control of Exopolysaccharide Production and Biofilm Structure. <i>ACS Synthetic Biology</i> , 2021, 10, 345-356.	3.8	17
23	Validation of a PNA Clamping Method for Reducing Host DNA Amplification and Increasing Eukaryotic Diversity in Rhizosphere Microbiome Studies. <i>Phytobiomes Journal</i> , 2020, 4, 291-302.	2.7	14
24	Plasmids That Insert into the Rhamnose Utilization Locus, <i>rhuA</i> : A Versatile Tool for Genetic Studies in <i>Sinorhizobium meliloti</i> . <i>Journal of Molecular Microbiology and Biotechnology</i> , 2009, 17, 201-210.	1.0	13
25	Nuclear Magnetic Resonance Structure and Dynamics of the Response Regulator Sma0114 from <i>Sinorhizobium meliloti</i> . <i>Biochemistry</i> , 2012, 51, 6932-6941.	2.5	13
26	NMR Structure of the HWE Kinase Associated Response Regulator Sma0114 in Its Activated State. <i>Biochemistry</i> , 2014, 53, 311-322.	2.5	13
27	Live reports from the soil grain – the promise and challenge of microbiosensors. <i>Functional Ecology</i> , 2008, 22, 983-989.	3.6	12
28	The risk of water, sanitation and hygiene on diarrhea-related infant mortality in eastern Ethiopia: a population-based nested case-control. <i>BMC Public Health</i> , 2022, 22, 343.	2.9	11
29	Transcriptional control of a rRNA promoter of the nodulating symbiont <i>Sinorhizobium meliloti</i> . <i>FEMS Microbiology Letters</i> , 2003, 226, 15-22.	1.8	8
30	Single-cell amplicon sequencing reveals community structures and transmission trends of protist-associated bacteria in a termite host. <i>PLoS ONE</i> , 2020, 15, e0233065.	2.5	8
31	<i>18S rRNA</i> gene amplicon sequencing combined with culture-based surveys of maize rhizosphere protists reveal dominant, plant-enriched and culturable community members. <i>Environmental Microbiology Reports</i> , 2022, 14, 110-118.	2.4	8
32	An AraC-like transcriptional activator is required for induction of genes needed for α -galactoside utilization in <i>Sinorhizobium meliloti</i> . <i>FEMS Microbiology Letters</i> , 2000, 188, 23-27.	1.8	6
33	NMR assignments for the <i>Sinorhizobium meliloti</i> response regulator Sma0114. <i>Biomolecular NMR Assignments</i> , 2011, 5, 55-58.	0.8	4
34	Draft Genome Sequences of <i>Dysgonomonas</i> sp. Strains BGC7 and HGC4, Isolated from the Hindgut of a Lower Termite. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	4
35	Dominance of Ciliophora and Chlorophyta Among Phyllosphere Protists of Solanaceous Plants. <i>Phytobiomes Journal</i> , 2023, 7, 270-280.	2.7	4
36	An AraC-like transcriptional activator is required for induction of genes needed for β -galactoside utilization in <i>Sinorhizobium meliloti</i> . <i>FEMS Microbiology Letters</i> , 2000, 188, 23-27.	1.8	3

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37	Simultaneous Single-Cell Genome and Transcriptome Sequencing of Termite Hindgut Protists Reveals Metabolic and Evolutionary Traits of Their Endosymbionts. <i>MSphere</i> , 2022, 7, e0002122.	2.9	1
38	Variations in moisture retention of contact-printed soil bacteria surface colonies using confocal microscopy. , 2014, , .		0
39	Draft Genome Sequences of <i>Dysgonomonas</i> sp. Strains GY75 and GY617, Isolated from the Hindgut of <i>Reticulitermes flavipes</i> . <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	0
40	Nodule Development in Legumes. <i>Agronomy</i> , 0, , 1-24.	0.2	0