

Dmitri V Mavrodi

List of Publications by Year in descending order

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85
papers

7,153
citations

81900

39
h-index

66911

78
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89
all docs

89
docs citations

89
times ranked

5929
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Analysis of Genes for Biosynthesis of Pyocyanin and Phenazine-1-Carboxamide from <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2001, 183, 6454-6465.	2.2	665
2	Complete genome sequence of the plant commensal <i>Pseudomonas fluorescens</i> Pf-5. <i>Nature Biotechnology</i> , 2005, 23, 873-878.	17.5	615
3	Comparative Genomics of Plant-Associated <i>Pseudomonas</i> spp.: Insights into Diversity and Inheritance of Traits Involved in Multitrophic Interactions. <i>PLoS Genetics</i> , 2012, 8, e1002784.	3.5	578
4	Phenazine Compounds in Fluorescent <i>Pseudomonas</i> Spp. Biosynthesis and Regulation. <i>Annual Review of Phytopathology</i> , 2006, 44, 417-445.	7.8	527
5	<i>Pseudomonas aeruginosa</i> Pyocyanin Is Critical for Lung Infection in Mice. <i>Infection and Immunity</i> , 2004, 72, 4275-4278.	2.2	312
6	Role of 2,4-Diacetylphloroglucinol-Producing Fluorescent <i>Pseudomonas</i> spp. in the Defense of Plant Roots. <i>Plant Biology</i> , 2007, 9, 4-20.	3.8	259
7	Diversity and Evolution of the Phenazine Biosynthesis Pathway. <i>Applied and Environmental Microbiology</i> , 2010, 76, 866-879.	3.1	241
8	A Seven-Gene Locus for Synthesis of Phenazine-1-Carboxylic Acid by <i>Pseudomonas fluorescens</i> 2-79. <i>Journal of Bacteriology</i> , 1998, 180, 2541-2548.	2.2	241
9	Role of Bacterial Communities in the Natural Suppression of <i>Rhizoctonia solani</i> Bare Patch Disease of Wheat (<i>Triticum aestivum</i> L.). <i>Applied and Environmental Microbiology</i> , 2013, 79, 7428-7438.	3.1	224
10	Induced Systemic Resistance in <i>Arabidopsis thaliana</i> Against <i>Pseudomonas syringae</i> pv. <i>tomato</i> by 2,4-Diacetylphloroglucinol-Producing <i>Pseudomonas fluorescens</i> . <i>Phytopathology</i> , 2012, 102, 403-412.	2.2	190
11	An inclusive Research Education Community (iREC): Impact of the SEA-PHAGES program on research outcomes and student learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13531-13536.	7.1	155
12	Genetic Diversity of <i>phlD</i> from 2,4-Diacetylphloroglucinol-Producing Fluorescent <i>Pseudomonas</i> spp.. <i>Phytopathology</i> , 2001, 91, 35-43.	2.2	154
13	A Rapid Polymerase Chain Reaction-Based Assay Characterizing Rhizosphere Populations of 2,4-Diacetylphloroglucinol-Producing Bacteria. <i>Phytopathology</i> , 2001, 91, 44-54.	2.2	152
14	<i>Pseudomonas aeruginosa</i> Exotoxin Pyocyanin Causes Cystic Fibrosis Airway Pathogenesis. <i>American Journal of Pathology</i> , 2009, 175, 2473-2488.	3.8	152
15	<i>phzO</i> , a Gene for Biosynthesis of 2-Hydroxylated Phenazine Compounds in <i>Pseudomonas aureofaciens</i> 30-84. <i>Journal of Bacteriology</i> , 2001, 183, 318-327.	2.2	151
16	Accumulation of the Antibiotic Phenazine-1-Carboxylic Acid in the Rhizosphere of Dryland Cereals. <i>Applied and Environmental Microbiology</i> , 2012, 78, 804-812.	3.1	128
17	Of Two Make One: The Biosynthesis of Phenazines. <i>ChemBioChem</i> , 2009, 10, 2295-2304.	2.6	125
18	Recent insights into the diversity, frequency and ecological roles of phenazines in fluorescent <i>Pseudomonas</i> spp.. <i>Environmental Microbiology</i> , 2013, 15, 675-686.	3.8	119

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19	Phenazine Biosynthesis in <i>Pseudomonas fluorescens</i> : A Branchpoint from the Primary Shikimate Biosynthetic Pathway and Role of Phenazine-1,6-dicarboxylic Acid. <i>Journal of the American Chemical Society</i> , 2001, 123, 9459-9460.	13.7	115
20	Interactions Between Strains of 2,4-Diacetylphloroglucinol-Producing <i>Pseudomonas fluorescens</i> in the Rhizosphere of Wheat. <i>Phytopathology</i> , 2003, 93, 982-994.	2.2	98
21	Structure and function of the phenazine biosynthetic protein PhzF from <i>Pseudomonas fluorescens</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16431-16436.	7.1	92
22	Mobile genetic elements in the genome of the beneficial rhizobacterium <i>Pseudomonas fluorescens</i> Pf-5. <i>BMC Microbiology</i> , 2009, 9, 8.	3.3	91
23	Activation of the phz Operon of <i>Pseudomonas fluorescens</i> 2-79 Requires the LuxR Homolog PhzR, N-(3-OH-Hexanoyl)-L-Homoserine Lactone Produced by the LuxI Homolog PhzI, and a cis-Acting phz Box. <i>Journal of Bacteriology</i> , 2005, 187, 6517-6527.	2.2	89
24	Chromosomal Insertion of Phenazine-1-Carboxylic Acid Biosynthetic Pathway Enhances Efficacy of Damping-off Disease Control by <i>Pseudomonas fluorescens</i> . <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 1293-1300.	2.6	88
25	Biological Control of Rhizoctonia Root Rot on Bean by Phenazine- and Cyclic Lipopeptide-Producing <i>Pseudomonas</i> CMR12a. <i>Phytopathology</i> , 2011, 101, 996-1004.	2.2	88
26	Biocontrol and plant growth-promoting activity of rhizobacteria from Chinese fields with contaminated soils. <i>Microbial Biotechnology</i> , 2015, 8, 404-418.	4.2	83
27	Transformation of <i>Pseudomonas fluorescens</i> with genes for biosynthesis of phenazine-1-carboxylic acid improves biocontrol of rhizoctonia root rot and in situ antibiotic production. <i>FEMS Microbiology Ecology</i> , 2004, 49, 243-251.	2.7	73
28	Long-Term Irrigation Affects the Dynamics and Activity of the Wheat Rhizosphere Microbiome. <i>Frontiers in Plant Science</i> , 2018, 9, 345.	3.6	73
29	PhzA/B Catalyzes the Formation of the Tricycle in Phenazine Biosynthesis. <i>Journal of the American Chemical Society</i> , 2008, 130, 17053-17061.	13.7	71
30	Irrigation Differentially Impacts Populations of Indigenous Antibiotic-Producing <i>Pseudomonas</i> spp. in the Rhizosphere of Wheat. <i>Applied and Environmental Microbiology</i> , 2012, 78, 3214-3220.	3.1	70
31	Antagonistic activity among 2,4-diacetylphloroglucinol-producing fluorescent <i>Pseudomonas</i> spp.. <i>FEMS Microbiology Letters</i> , 2005, 242, 249-256.	1.8	64
32	Structural and Functional Analysis of the Type III Secretion System from <i>Pseudomonas fluorescens</i> Q8r1-96. <i>Journal of Bacteriology</i> , 2011, 193, 177-189.	2.2	61
33	Biological Control of Take-All by Fluorescent <i>Pseudomonas</i> spp. from Chinese Wheat Fields. <i>Phytopathology</i> , 2011, 101, 1481-1491.	2.2	61
34	Root Exudates Alter the Expression of Diverse Metabolic, Transport, Regulatory, and Stress Response Genes in Rhizosphere <i>Pseudomonas</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 651282.	3.5	58
35	phlD-based genetic diversity and detection of genotypes of 2,4-diacetylphloroglucinol-producing <i>Pseudomonas fluorescens</i> . <i>FEMS Microbiology Ecology</i> , 2006, 56, 64-78.	2.7	54
36	Biological Control of Wheat Root Diseases by the CLP-Producing Strain <i>Pseudomonas fluorescens</i> HC1-07. <i>Phytopathology</i> , 2014, 104, 248-256.	2.2	52

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37	Ligand Binding Induces an Ammonia Channel in 2-Amino-2-desoxyisochorismate (ADIC) Synthase PhzE. <i>Journal of Biological Chemistry</i> , 2011, 286, 18213-18221.	3.4	49
38	Quantification of 2,4-Diacetylphloroglucinol-Producing <i>Pseudomonas fluorescens</i> Strains in the Plant Rhizosphere by Real-Time PCR. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5531-5538.	3.1	45
39	Role of ptsP, orfT, and sss Recombinase Genes in Root Colonization by <i>Pseudomonas fluorescens</i> Q8r1-96. <i>Applied and Environmental Microbiology</i> , 2006, 72, 7111-7122.	3.1	44
40	Identification of Differences in Genome Content among phlD-Positive <i>Pseudomonas fluorescens</i> Strains by Using PCR-Based Subtractive Hybridization. <i>Applied and Environmental Microbiology</i> , 2002, 68, 5170-5176.	3.1	39
41	Population Structure and Diversity of Phenazine-1-Carboxylic Acid Producing Fluorescent <i>Pseudomonas</i> spp. from Dryland Cereal Fields of Central Washington State (USA). <i>Microbial Ecology</i> , 2012, 64, 226-241.	2.8	38
42	Relationships between Root Pathogen Resistance, Abundance and Expression of <i>Pseudomonas</i> Antimicrobial Genes, and Soil Properties in Representative Swiss Agricultural Soils. <i>Frontiers in Plant Science</i> , 2017, 8, 427.	3.6	37
43	Phenazine-carboxylic acid and soil moisture influence biofilm development and turnover of rhizobacterial biomass on wheat root surfaces. <i>Environmental Microbiology</i> , 2018, 20, 2178-2194.	3.8	35
44	Molecular classification of IncP-9 naphthalene degradation plasmids. <i>Plasmid</i> , 2006, 56, 1-10.	1.4	31
45	The role of dsbA in colonization of the wheat rhizosphere by <i>Pseudomonas fluorescens</i> Q8r1-96. <i>Microbiology (United Kingdom)</i> , 2006, 152, 863-872.	1.8	27
46	Taxonomy and Distribution of Phenazine-Producing <i>Pseudomonas</i> spp. in the Dryland Agroecosystem of the Inland Pacific Northwest, United States. <i>Applied and Environmental Microbiology</i> , 2013, 79, 3887-3891.	3.1	27
47	Rhizosphere plant-microbe interactions under water stress. <i>Advances in Applied Microbiology</i> , 2021, 115, 65-113.	2.4	27
48	<i>Pseudomonas protegens</i> Pf-5 Causes Discoloration and Pitting of Mushroom Caps Due to the Production of Antifungal Metabolites. <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 733-746.	2.6	26
49	Trapped intermediates in crystals of the FMN-dependent oxidase PhzG provide insight into the final steps of phenazine biosynthesis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1403-1413.	2.5	24
50	Differential Response of Wheat Cultivars to <i>Pseudomonas brassicacearum</i> and Take-All Decline Soil. <i>Phytopathology</i> , 2018, 108, 1363-1372.	2.2	23
51	Destruction of Opportunistic Pathogens via Polymer Nanoparticle-Mediated Release of Plant-Based Antimicrobial Payloads. <i>Advanced Healthcare Materials</i> , 2016, 5, 1094-1103.	7.6	22
52	Comparative Analysis of Rhizosphere Microbiomes of Southern Highbush Blueberry (<i>Vaccinium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 <i>Frontiers in Microbiology</i> , 2020, 11, 370.	3.5	22
53	Utilization of trehalose, benzoate, valerate, and seed and root exudates by genotypes of 2,4-diacetylphloroglucinol producing <i>Pseudomonas fluorescens</i> . <i>Soil Biology and Biochemistry</i> , 2007, 39, 2712-2722.	8.8	21
54	Pro-Antimicrobial Networks via Degradable Acetals (PANDAs) Using Thiol-ene Photopolymerization. <i>ACS Macro Letters</i> , 2017, 6, 171-175.	4.8	21

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55	Construction of a recombinant strain of <i>Pseudomonas fluorescens</i> producing both phenazine-1-carboxylic acid and cyclic lipopeptide for the biocontrol of take-all disease of wheat. <i>European Journal of Plant Pathology</i> , 2017, 149, 683-694.	1.7	21
56	Rhizosphere Microbial Communities of <i>Spartina alterniflora</i> and <i>Juncus roemerianus</i> From Restored and Natural Tidal Marshes on Deer Island, Mississippi. <i>Frontiers in Microbiology</i> , 2018, 9, 3049.	3.5	20
57	Antimicrobial Activity of, and Cellular Pathways Targeted by, <i>p</i> -Anisaldehyde and Epigallocatechin Gallate in the Opportunistic Human Pathogen <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	17
58	A bio-based pro-antimicrobial polymer network via degradable acetal linkages. <i>Acta Biomaterialia</i> , 2018, 67, 196-205.	8.3	13
59	<i>Pseudomonas synxantha</i> 2-79 Transformed with Pyrrolnitrin Biosynthesis Genes Has Improved Biocontrol Activity Against Soilborne Pathogens of Wheat and Canola. <i>Phytopathology</i> , 2020, 110, 1010-1017.	2.2	13
60	The purification, crystallization and preliminary structural characterization of PhzF, a key enzyme in the phenazine-biosynthesis pathway from <i>Pseudomonas fluorescens</i> 2-79. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 184-186.	2.5	12
61	pA506, a Conjugative Plasmid of the Plant Epiphyte <i>Pseudomonas fluorescens</i> A506. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5272-5282.	3.1	12
62	Exploring the Pathogenicity of <i>Pseudomonas brassicacearum</i> Q8r1-96 and Other Strains of the <i>Pseudomonas fluorescens</i> Complex on Tomato. <i>Plant Disease</i> , 2020, 104, 1026-1031.	1.4	10
63	Functional Analysis of Phenazine Biosynthesis Genes in <i>Burkholderia</i> spp.. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	3.1	10
64	The purification, crystallization and preliminary structural characterization of FAD-dependent monooxygenase PhzS, a phenazine-modifying enzyme from <i>Pseudomonas aeruginosa</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 989-992.	0.7	9
65	Draft genome sequences of strains <i>Salinicola socius</i> SMB35T, <i>Salinicola</i> sp. MH3R3 and <i>Chromohalobacter</i> sp. SMB17 from the Verkhnekamsk potash mining region of Russia. <i>Standards in Genomic Sciences</i> , 2017, 12, 39.	1.5	9
66	Effect of rock dust-amended compost on the soil properties, soil microbial activity, and fruit production in an apple orchard from the Jiangsu province of China. <i>Archives of Agronomy and Soil Science</i> , 2021, 67, 1313-1326.	2.6	9
67	The purification, crystallization and preliminary structural characterization of PhzM, a phenazine-modifying methyltransferase from <i>Pseudomonas aeruginosa</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 887-890.	0.7	8
68	Using Aldehyde Synergism To Direct the Design of Degradable Pro-Antimicrobial Networks. <i>ACS Applied Bio Materials</i> , 2018, 1, 1983-1991.	4.6	7
69	Systematic overexpression of genes encoded by mycobacteriophage Waterfoul reveals novel inhibitors of mycobacterial growth. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	1.8	7
70	Identification of the Key Genes of Naphthalene Catabolism in Soil DNA. <i>Microbiology</i> , 2003, 72, 597-604.	1.2	6
71	Overexpression, purification and crystallization of PhzA, the first enzyme of the phenazine biosynthesis pathway of <i>Pseudomonas fluorescens</i> 2-79. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1129-1131.	2.5	6
72	The Role of 2,4-Diacetylphloroglucinol- and Phenazine-1-Carboxylic Acid-Producing <i>Pseudomonas</i> spp. in Natural Protection of Wheat from Soilborne Pathogens. , 2011, , 267-283.		5

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73	Draft Genome Sequence of the Phenazine-Producing <i>Pseudomonas fluorescens</i> Strain 2-79. <i>Genome Announcements</i> , 2015, 3, .	0.8	5
74	Genomics of <i>Pseudomonas fluorescens</i> Pf-5. , 2007, , 3-30.		5
75	Control of <i>Pseudomonas amygdali</i> pv. <i>loropetali</i> on Metal, Wood, and <i>Loropetalum chinense</i> Stem Surfaces. <i>Plant Health Progress</i> , 2019, 20, 270-277.	1.4	4
76	SELECTING, MONITORING, AND ENHANCING THE PERFORMANCE OF BACTERIAL BIOCONTROL AGENTS: PRINCIPLES, PITFALLS, AND PROGRESS. , 2007, , 87-105.		3
77	Phenazines and Bacterial Biofilms. , 2013, , 71-87.		2
78	Discovery and Characterization of Bacteriophage LuckyBarnes. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	2
79	Genome Sequence of Mycobacterium Phage Waterfoul. <i>Genome Announcements</i> , 2016, 4, .	0.8	1
80	Genome Sequences of Mycobacteriophages Amgine, Amohnition, Bella96, Cain, DarthP, Hammy, Krueger, LastHope, Peanam, PhelpsODU, Phrank, SirPhilip, Slimphazie, and Unicorn. <i>Genome Announcements</i> , 2017, 5, .	0.8	1
81	Draft Genome Sequences of <i>Xylella fastidiosa</i> subsp. <i>fastidiosa</i> Strains OK3, VB11, and NOB1, Isolated from Bunch and Muscadine Grapes Grown in Southern Mississippi. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	1
82	Draft Genome Sequences of Six Strains Isolated from the Rhizosphere of Wheat Grown in Cadmium-Contaminated Soil. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	0
83	Structural characterization of the aromatic monooxygenases PhzO and TcpA. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, s147-s147.	0.3	0
84	Structural and functional studies of phenazine biosynthesis protein PhzE, a 2-amino-2-desoxyisochorismate synthase. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, s147-s148.	0.3	0
85	Detoxification of Copper and Chromium via Dark Hydrogen Fermentation of Potato Waste by <i>Clostridium butyricum</i> Strain 92. <i>Processes</i> , 2022, 10, 170.	2.8	0