David M Weller

List of Publications by Year in Descending Order

63 papers	7,003 citations	34 h-index	64 g-index
64 ext. papers	8,598 ext. citations	5 avg, IF	5.98 L-index

#	Paper	IF	Citations
63	Development of platforms for functional characterization and production of phenazines using a multi-chassis approach via CRAGE. *Metabolic Engineering*, **2021**, 69, 188-188	9.7	1
62	Root Exudates Alter the Expression of Diverse Metabolic, Transport, Regulatory, and Stress Response Genes in Rhizosphere. *Frontiers in Microbiology*, **2021**, 12, 651282	5.7	13
61	Evaluation of the Phytotoxicity of 2,4-Diacetylphloroglucinol and Q8r1-96 on Different Wheat Cultivars. *Phytopathology*, **2021**, PHYTO07200315R	3.8	0
60	Functional Analysis of Phenazine Biosynthesis Genes in spp. *Applied and Environmental Microbiology* , **2021**, 87,	4.8	2
59	Rhizosphere plant-microbe interactions under water stress. *Advances in Applied Microbiology*, **2021**, 115, 65-113	4.9	3
58	Native yeast and non-yeast fungal communities of Cabernet Sauvignon berries from two Washington State vineyards, and persistence in spontaneous fermentation. *International Journal of Food Microbiology*, **2021**, 350, 109225	5.8	4
57	Glutamic acid reshapes the plant microbiota to protect plants against pathogens.. *Microbiome*, **2021**, 9, 244	16.6	6
56	2-79 Transformed with Pyrrolnitrin Biosynthesis Genes Has Improved Biocontrol Activity Against Soilborne Pathogens of Wheat and Canola. *Phytopathology*, **2020**, 110, 1010-1017	3.8	5
55	Global landscape of phenazine biosynthesis and biodegradation reveals species-specific colonization patterns in agricultural soils and crop microbiomes. *ELife*, **2020**, 9,	8.9	11
54	Exploring the Pathogenicity of Q8r1-96 and Other Strains of the Complex on Tomato. *Plant Disease*, **2020**, 104, 1026-1031	1.5	8
53	Real-time PCR assays for the quantification of native yeast DNA in grape berry and fermentation extracts. *Journal of Microbiological Methods*, **2020**, 168, 105794	2.8	3
52	A mutualistic interaction between Streptomyces bacteria, strawberry plants and pollinating bees. *Nature Communications*, **2019**, 10, 4802	17.4	43
51	Root-associated microbes in sustainable agriculture: models, metabolites and mechanisms. *Pest Management Science*, **2019**, 75, 2360-2367	4.6	14
50	Phenazine-1-Carboxylic Acid-Producing Bacteria Enhance the Reactivity of Iron Minerals in Dryland and Irrigated Wheat Rhizospheres. *Environmental Science & Technology*, **2019**, 53, 14273-14284	10.3	9
49	The soil-borne legacy in the age of the holobiont. *Microbial Biotechnology*, **2019**, 12, 51-54	6.3	12
48	Phenazine-1-carboxylic acid and soil moisture influence biofilm development and turnover of rhizobacterial biomass on wheat root surfaces. *Environmental Microbiology*, **2018**, 20, 2178-2194	5.2	24
47	Biological Control of Botrytis cinerea: Interactions with Native Vineyard Yeasts from Washington State. *Phytopathology*, **2018**, 108, 691-701	3.8	23

46	An integrated workflow for phenazine-modifying enzyme characterization. *Journal of Industrial Microbiology and Biotechnology*, **2018**, 45, 567-577	4.2	4
45	Long-Term Irrigation Affects the Dynamics and Activity of the Wheat Rhizosphere Microbiome. *Frontiers in Plant Science*, **2018**, 9, 345	6.2	45
44	Multiple Modes of Nematode Control by Volatiles of 1A00316 from Antarctic Soil against. *Frontiers in Microbiology*, **2018**, 9, 253	5.7	36
43	Differential Response of Wheat Cultivars to Pseudomonas brassicacearum and Take-All Decline Soil. *Phytopathology*, **2018**, 108, 1363-1372	3.8	10
42	Sensitivity of Rhizoctonia Isolates to Phenazine-1-Carboxylic Acid and Biological Control by Phenazine-Producing Pseudomonas spp. *Phytopathology*, **2017**, 107, 692-703	3.8	23
41	Construction of a recombinant strain of Pseudomonas fluorescens producing both phenazine-1-carboxylic acid and cyclic lipopeptide for the biocontrol of take-all disease of wheat. *European Journal of Plant Pathology*, **2017**, 149, 683-694	2.1	11
40	Volatile organic compounds from Paenibacillus polymyxa KM2501-1 control Meloidogyne incognita by multiple strategies. *Scientific Reports*, **2017**, 7, 16213	4.9	35
39	Caryolan-1-ol, an antifungal volatile produced by spp., inhibits the endomembrane system of fungi. *Open Biology*, **2017**, 7,	7	18
38	Disease Suppressive Soils: New Insights from the Soil Microbiome. *Phytopathology*, **2017**, 107, 1284-1297	3.8	219
37	Microbial and biochemical basis of a Fusarium wilt-suppressive soil. *ISME Journal*, **2016**, 10, 119-29	11.9	224
36	Molecular Characterization, Morphological Characteristics, Virulence, and Geographic Distribution of Rhizoctonia spp. in Washington State. *Phytopathology*, **2016**, 106, 459-73	3.8	17
35	Rhizosphere Competence of Wild-Type and Genetically Engineered Pseudomonas brassicacearum Is Affected by the Crop Species. *Phytopathology*, **2016**, 106, 554-61	3.8	7
34	Biocontrol and plant growth-promoting activity of rhizobacteria from Chinese fields with contaminated soils. *Microbial Biotechnology*, **2015**, 8, 404-18	6.3	62
33	Biological control of wheat root diseases by the CLP-producing strain Pseudomonas fluorescens HC1-07. *Phytopathology*, **2014**, 104, 248-56	3.8	36
32	Induced systemic resistance by beneficial microbes. *Annual Review of Phytopathology*, **2014**, 52, 347-75	10.8	1380
31	Taxonomy and distribution of phenazine-producing Pseudomonas spp. in the dryland agroecosystem of the Inland Pacific Northwest, United States. *Applied and Environmental Microbiology*, **2013**, 79, 3887-91	4.8	18
30	Take-all of Wheat and Natural Disease Suppression: A Review. *Plant Pathology Journal*, **2013**, 29, 125-35	2.5	84
29	Factors impacting the activity of 2,4-diacetylphloroglucinol-producing Pseudomonas fluorescens against take-all of wheat. *Soil Biology and Biochemistry*, **2012**, 54, 48-56	7.5	31

28	Comparative genomics of plant-associated Pseudomonas spp.: insights into diversity and inheritance of traits involved in multitrophic interactions. *PLoS Genetics*, **2012**, 8, e1002784	6	432
27	Induced systemic resistance in Arabidopsis thaliana against Pseudomonas syringae pv. tomato by 2,4-diacetylphloroglucinol-producing Pseudomonas fluorescens. *Phytopathology*, **2012**, 102, 403-12	3.8	149
26	Population structure and diversity of phenazine-1-carboxylic acid producing fluorescent Pseudomonas spp. from dryland cereal fields of central Washington State (USA). *Microbial Ecology*, **2012**, 64, 226-41	4.4	34
25	Irrigation differentially impacts populations of indigenous antibiotic-producing pseudomonas spp. in the rhizosphere of wheat. *Applied and Environmental Microbiology*, **2012**, 78, 3214-20	4.8	52
24	Accumulation of the antibiotic phenazine-1-carboxylic acid in the rhizosphere of dryland cereals. *Applied and Environmental Microbiology*, **2012**, 78, 804-12	4.8	104
23	Biological control of take-all by fluorescent Pseudomonas spp. from Chinese wheat fields. *Phytopathology*, **2011**, 101, 1481-91	3.8	51
22	Structural and functional analysis of the type III secretion system from Pseudomonas fluorescens Q8r1-96. *Journal of Bacteriology*, **2011**, 193, 177-89	3.5	43
21	Saccharomyces cerevisiae genome-wide mutant screen for sensitivity to 2,4-diacetylphloroglucinol, an antibiotic produced by Pseudomonas fluorescens. *Applied and Environmental Microbiology*, **2011**, 77, 1770-6	4.8	34
20	Diversity, virulence, and 2,4-diacetylphloroglucinol sensitivity of Gaeumannomyces graminis var. tritici isolates from Washington state. *Phytopathology*, **2009**, 99, 472-9	3.8	46
19	Pseudomonas biocontrol agents of soilborne pathogens: looking back over 30 years. *Phytopathology*, **2007**, 97, 250-6	3.8	484
18	The role of dsbA in colonization of the wheat rhizosphere by Pseudomonas fluorescens Q8r1-96. *Microbiology (United Kingdom)*, **2006**, 152, 863-872	2.9	25
17	Enrichment and genotypic diversity of phlD-containing fluorescent Pseudomonas spp. in two soils after a century of wheat and flax monoculture. *FEMS Microbiology Ecology*, **2006**, 55, 351-68	4.3	55
16	phlD-based genetic diversity and detection of genotypes of 2,4-diacetylphloroglucinol-producing Pseudomonas fluorescens. *FEMS Microbiology Ecology*, **2006**, 56, 64-78	4.3	51
15	Pseudomonas Fluorescens UP61 Isolated From Birdsfoot Trefoil Rhizosphere Produces Multiple Antibiotics and Exerts a Broad Spectrum of Biocontrol Activity. *European Journal of Plant Pathology* , **2004**, 110, 671-681	2.1	32
14	Transformation of Pseudomonas fluorescens with genes for biosynthesis of phenazine-1-carboxylic acid improves biocontrol of rhizoctonia root rot and in situ antibiotic production. *FEMS Microbiology Ecology*, **2004**, 49, 243-51	4.3	61
13	Interactions Between Strains of 2,4-Diacetylphloroglucinol-Producing Pseudomonas fluorescens in the Rhizosphere of Wheat. *Phytopathology*, **2003**, 93, 982-94	3.8	81
12	Differential ability of genotypes of 2,4-diacetylphloroglucinol-producing Pseudomonas fluorescens strains to colonize the roots of pea plants. *Applied and Environmental Microbiology*, **2002**, 68, 3226-37	4.8	135
11	Yield Responses of Direct-Seeded Wheat to Rhizobacteria and Fungicide Seed Treatments. *Plant Disease*, **2002**, 86, 780-784	1.5	58

10	Microbial populations responsible for specific soil suppressiveness to plant pathogens. *Annual Review of Phytopathology*, **2002**, 40, 309-48	10.8	1172
9	A rapid polymerase chain reaction-based assay characterizing rhizosphere populations of 2,4-diacetylphloroglucinol-producing bacteria. *Phytopathology*, **2001**, 91, 44-54	3.8	140
8	Exploiting genotypic diversity of 2,4-diacetylphloroglucinol-producing Pseudomonas spp.: characterization of superior root-colonizing P. fluorescens strain Q8r1-96. *Applied and Environmental Microbiology*, **2001**, 67, 2545-54	4.8	200
7	Genetic Diversity of phlD from 2,4-Diacetylphloroglucinol-Producing Fluorescent Pseudomonas spp. *Phytopathology*, **2001**, 91, 35-43	3.8	143
6	Convenient synthesis of 2,4-diacetylphloroglucinol, a natural antibiotic involved in the control of take-all disease of wheat. *Journal of Agricultural and Food Chemistry*, **2000**, 48, 1882-7	5.7	24
5	Effect of Population Density of Pseudomonas fluorescens on Production of 2,4-Diacetylphloroglucinol in the Rhizosphere of Wheat. *Phytopathology*, **1999**, 89, 470-5	3.8	193
4	Natural Plant Protection by 2,4-Diacetylphloroglucinol-Producing Pseudomonas spp. in Take-All Decline Soils. *Molecular Plant-Microbe Interactions*, **1998**, 11, 144-152	3.6	366
3	Role of Secondary Metabolites in Root Disease Suppression. *ACS Symposium Series*, **1994**, 330-347	0.4	2
2	Production of the antibiotic phenazine-1-carboxylic Acid by fluorescent pseudomonas species in the rhizosphere of wheat. *Applied and Environmental Microbiology*, **1990**, 56, 908-12	4.8	349
1	Distribution of a Take-All Suppressive Strain of Pseudomonas fluorescens on Seminal Roots of Winter Wheat. *Applied and Environmental Microbiology*, **1984**, 48, 897-9	4.8	46