

Gary D Bending

List of Publications by Year in descending order

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103
papers

7,401
citations

47006

47
h-index

56724

83
g-index

110
all docs

110
docs citations

110
times ranked

8478
citing authors

#	ARTICLE	IF	CITATIONS
1	Agricultural land use favours Mucoromycotinian, but not Glomeromycotinian, arbuscular mycorrhizal fungi across ten biomes. <i>New Phytologist</i> , 2022, 233, 1369-1382.	7.3	19
2	Diversity and Ecological Guild Analysis of the Oil Palm Fungal Microbiome Across Root, Rhizosphere, and Soil Compartments. <i>Frontiers in Microbiology</i> , 2022, 13, 792928.	3.5	7
3	Building soil sustainability from root-soil interface traits. <i>Trends in Plant Science</i> , 2022, 27, 688-698.	8.8	24
4	Aminoethylphosphonate utilization in <i>Pseudomonas putida</i> is controlled by multiple master regulators. <i>Environmental Microbiology</i> , 2022, 24, 1902-1917.	3.8	4
5	Stimulation of Distinct Rhizosphere Bacteria Drives Phosphorus and Nitrogen Mineralization in Oilseed Rape under Field Conditions. <i>MSystems</i> , 2022, 7, .	3.8	7
6	Evidence for Niche Differentiation in the Environmental Responses of Co-occurring Mucoromycotinian Fine Root Endophytes and Glomeromycotinian Arbuscular Mycorrhizal Fungi. <i>Microbial Ecology</i> , 2021, 81, 864-873.	2.8	17
7	Niche-adaptation in plant-associated <i>Bacteroidetes</i> favours specialisation in organic phosphorus mineralisation. <i>ISME Journal</i> , 2021, 15, 1040-1055.	9.8	74
8	Identification of microbial signatures linked to oilseed rape yield decline at the landscape scale. <i>Microbiome</i> , 2021, 9, 19.	11.1	31
9	A Novel Signaling Pathway Required for Arabidopsis Endodermal Root Organization Shapes the Rhizosphere Microbiome. <i>Plant and Cell Physiology</i> , 2021, 62, 248-261.	3.1	17
10	Contrasting Responses of Rhizosphere Bacterial, Fungal, Protist, and Nematode Communities to Nitrogen Fertilization and Crop Genotype in Field Grown Oilseed Rape (<i>Brassica napus</i>). <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	3.9	8
11	Transporter characterisation reveals aminoethylphosphonate mineralisation as a key step in the marine phosphorus redox cycle. <i>Nature Communications</i> , 2021, 12, 4554.	12.8	21
12	Tree phyllospheres are a habitat for diverse populations of CO ₂ -oxidizing bacteria. <i>Environmental Microbiology</i> , 2021, 23, 6309-6327.	3.8	5
13	Natural attenuation of legacy hydrocarbon spills in pristine soils is feasible despite difficult environmental conditions in the monsoon tropics. <i>Science of the Total Environment</i> , 2021, 799, 149335.	8.0	3
14	Long-read metabarcoding of the eukaryotic rDNA operon to phylogenetically and taxonomically resolve environmental diversity. <i>Molecular Ecology Resources</i> , 2020, 20, 429-443.	4.8	68
15	Longitudinal dispersion of microplastics in aquatic flows using fluorometric techniques. <i>Water Research</i> , 2020, 170, 115337.	11.3	45
16	Relationships between yield, rotation length, and abundance of <i>Olpidium brassicae</i> and <i>Pyrenochaeta</i> sp. in the rhizosphere of oilseed rape. <i>Applied Soil Ecology</i> , 2020, 147, 103433.	4.3	3
17	Bedform characteristics and biofilm community development interact to modify hyporheic exchange. <i>Science of the Total Environment</i> , 2020, 749, 141397.	8.0	23
18	First Cryo-Scanning Electron Microscopy Images and X-Ray Microanalyses of Mucoromycotinian Fine Root Endophytes in Vascular Plants. <i>Frontiers in Microbiology</i> , 2020, 11, 2018.	3.5	16

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19	Inclusion of seasonal variation in river system microbial communities and phototroph activity increases environmental relevance of laboratory chemical persistence tests. <i>Science of the Total Environment</i> , 2020, 733, 139070.	8.0	10
20	Urban meadows as an alternative to short mown grassland: effects of composition and height on biodiversity. <i>Ecological Applications</i> , 2019, 29, e01946.	3.8	76
21	Preceding crop and seasonal effects influence fungal, bacterial and nematode diversity in wheat and oilseed rape rhizosphere and soil. <i>Applied Soil Ecology</i> , 2018, 126, 34-46.	4.3	43
22	Extreme rainfall affects assembly of the root-associated fungal community. <i>New Phytologist</i> , 2018, 220, 1172-1184.	7.3	60
23	Partial maintenance of organ-specific epigenetic marks during plant asexual reproduction leads to heritable phenotypic variation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9145-E9152.	7.1	65
24	Plant Rhizosphere Selection of Plasmodiophorid Lineages from Bulk Soil: The Importance of "Hidden" Diversity. <i>Frontiers in Microbiology</i> , 2018, 9, 168.	3.5	7
25	The "known" genetic potential for microbial communities to degrade organic phosphorus is reduced in low-pH soils. <i>MicrobiologyOpen</i> , 2017, 6, e00474.	3.0	34
26	Converting highly productive arable cropland in Europe to grassland: "a poor candidate for carbon sequestration. <i>Scientific Reports</i> , 2017, 7, 10493.	3.3	27
27	Identification of extracellular glycerophosphodiesterases in <i>Pseudomonas</i> and their role in soil organic phosphorus remineralisation. <i>Scientific Reports</i> , 2017, 7, 2179.	3.3	30
28	Functional differences in the microbial processing of recent assimilates under two contrasting perennial bioenergy plantations. <i>Soil Biology and Biochemistry</i> , 2017, 114, 248-262.	8.8	17
29	Fine endophytes (<i>Glomus tenue</i>) are related to Mucoromycotina, not Glomeromycota. <i>New Phytologist</i> , 2017, 213, 481-486.	7.3	101
30	Temporally Variable Geographical Distance Effects Contribute to the Assembly of Root-Associated Fungal Communities. <i>Frontiers in Microbiology</i> , 2016, 7, 195.	3.5	36
31	Spatio-Temporal Variation of Core and Satellite Arbuscular Mycorrhizal Fungus Communities in <i>Miscanthus giganteus</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 1278.	3.5	23
32	Comparative genomic, proteomic and exoproteomic analyses of three <i>Pseudomonas</i> strains reveals novel insights into the phosphorus scavenging capabilities of soil bacteria. <i>Environmental Microbiology</i> , 2016, 18, 3535-3549.	3.8	95
33	Spatial and temporal variability in the potential of river water biofilms to degrade p-nitrophenol. <i>Chemosphere</i> , 2016, 164, 355-362.	8.2	5
34	Changes in activity and structure of the soil microbial community after application of azoxystrobin or pirimicarb and an organic amendment to an agricultural soil. <i>Applied Soil Ecology</i> , 2016, 106, 47-57.	4.3	56
35	The priming potential of environmentally weathered pyrogenic carbon during land-use transition to biomass crop production. <i>GCB Bioenergy</i> , 2016, 8, 805-817.	5.6	4
36	Evidence for functional redundancy in arbuscular mycorrhizal fungi and implications for agroecosystem management. <i>Mycorrhiza</i> , 2016, 26, 77-83.	2.8	62

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37	Cultivar-level genotype differences influence diversity and composition of lettuce (<i>Lactuca</i> sp.) phyllosphere fungal communities. <i>Fungal Ecology</i> , 2015, 17, 183-186.	1.6	46
38	Abiotic and Biotic Processes Governing the Fate of Phenylurea Herbicides in Soils: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 1947-1998.	12.8	77
39	Characterization of <i>p</i> -Nitrophenol-Degrading Bacterial Communities in River Water by Using Functional Markers and Stable Isotope Probing. <i>Applied and Environmental Microbiology</i> , 2015, 81, 6890-6900.	3.1	33
40	Growth and nutritional responses to arbuscular mycorrhizal fungi are dependent on onion genotype and fungal species. <i>Biology and Fertility of Soils</i> , 2015, 51, 801-813.	4.3	27
41	An empirical model approach for assessing soil organic carbon stock changes following biomass crop establishment in Britain. <i>Biomass and Bioenergy</i> , 2015, 83, 141-151.	5.7	9
42	Impact of fresh root material and mature crop residues of oilseed rape (<i>Brassica napus</i>) on microbial communities associated with subsequent oilseed rape. <i>Biology and Fertility of Soils</i> , 2014, 50, 1267-1279.	4.3	22
43	Distribution and diversity of <i>Paraglomus</i> spp. in tilled agricultural soils. <i>Mycorrhiza</i> , 2014, 24, 1-11.	2.8	47
44	Impact of biochar on mineralisation of C and N from soil and willow litter and its relationship with microbial community biomass and structure. <i>Biology and Fertility of Soils</i> , 2014, 50, 695-702.	4.3	216
45	Isolation and characterisation of azoxystrobin degrading bacteria from soil. <i>Chemosphere</i> , 2014, 95, 370-378.	8.2	43
46	Diversity of fungi associated with hair roots of ericaceous plants is affected by land use. <i>FEMS Microbiology Ecology</i> , 2014, 87, 586-600.	2.7	36
47	Resistance and resilience responses of a range of soil eukaryote and bacterial taxa to fungicide application. <i>Chemosphere</i> , 2014, 112, 194-202.	8.2	20
48	Temporal variation outweighs effects of biosolids applications in shaping arbuscular mycorrhizal fungi communities on plants grown in pasture and arable soils. <i>Applied Soil Ecology</i> , 2014, 82, 52-60.	4.3	16
49	Root traits and microbial community interactions in relation to phosphorus availability and acquisition, with particular reference to <i>Brassica</i> . <i>Frontiers in Plant Science</i> , 2014, 5, 27.	3.6	111
50	The effect of crop sequences on soil microbial, chemical and physical indicators and its relationship with soybean sudden death syndrome (complex of <i>Fusarium</i> species). <i>Spanish Journal of Agricultural Research</i> , 2014, 12, 252.	0.6	29
51	Impact of black carbon on the bioaccessibility of organic contaminants in soil. <i>Journal of Hazardous Materials</i> , 2013, 261, 808-816.	12.4	105
52	The role of local environment and geographical distance in determining community composition of arbuscular mycorrhizal fungi at the landscape scale. <i>ISME Journal</i> , 2013, 7, 498-508.	9.8	242
53	Impacts of biochar on bioavailability of the fungicide azoxystrobin: A comparison of the effect on biodegradation rate and toxicity to the fungal community. <i>Chemosphere</i> , 2013, 91, 1525-1533.	8.2	44
54	What are the primary factors controlling the light fraction and particulate soil organic matter content of agricultural soils?. <i>Biology and Fertility of Soils</i> , 2013, 49, 1001-1014.	4.3	86

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55	Contrasting arbuscular mycorrhizal communities colonizing different host plants show a similar response to a soil phosphorus concentration gradient. <i>New Phytologist</i> , 2013, 198, 546-556.	7.3	183
56	Non-UV Light Influences the Degradation Rate of Crop Protection Products. <i>Environmental Science & Technology</i> , 2013, 47, 130712083104003.	10.0	5
57	Impact of Shortened Crop Rotation of Oilseed Rape on Soil and Rhizosphere Microbial Diversity in Relation to Yield Decline. <i>PLoS ONE</i> , 2013, 8, e59859.	2.5	95
58	Light Structures Phototroph, Bacterial and Fungal Communities at the Soil Surface. <i>PLoS ONE</i> , 2013, 8, e69048.	2.5	24
59	Cross-taxa congruence, indicators and environmental gradients in soils under agricultural and extensive land management. <i>European Journal of Soil Biology</i> , 2012, 49, 55-62.	3.2	32
60	Long-term effect of tillage systems on soil microbiological, chemical and physical parameters and the incidence of charcoal rot by <i>Macrophomina phaseolina</i> (Tassi) Goid in soybean. <i>Crop Protection</i> , 2012, 40, 73-82.	2.1	56
61	Meeting the demand for crop production: the challenge of yield decline in crops grown in short rotations. <i>Biological Reviews</i> , 2012, 87, 52-71.	10.4	342
62	Assessing the chemical and biological accessibility of the herbicide isoproturon in soil amended with biochar. <i>Chemosphere</i> , 2012, 88, 77-83.	8.2	99
63	Assessing the effect of organic residue quality on active decomposing fungi in a tropical Vertisol using ¹⁵ N-DNA stable isotope probing. <i>Fungal Ecology</i> , 2011, 4, 115-119.	1.6	33
64	Identification of active bacteria involved in decomposition of complex maize and soybean residues in a tropical Vertisol using ¹⁵ N-DNA stable isotope probing. <i>Pedobiologia</i> , 2011, 54, 187-193.	1.2	57
65	Spatial scaling of arbuscular mycorrhizal fungal diversity is affected by farming practice. <i>Environmental Microbiology</i> , 2011, 13, 241-249.	3.8	93
66	Organic management of tilled agricultural soils results in a rapid increase in colonisation potential and spore populations of arbuscular mycorrhizal fungi. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 273-279.	5.3	48
67	Development of novel assays for lignin degradation: comparative analysis of bacterial and fungal lignin degraders. <i>Molecular BioSystems</i> , 2010, 6, 815.	2.9	238
68	Biodegradation of the herbicide mecoprop-p with soil depth and its relationship with class III tfdA genes. <i>Soil Biology and Biochemistry</i> , 2010, 42, 32-39.	8.8	26
69	Both Leaf Properties and Microbe-Microbe Interactions Influence Within-Species Variation in Bacterial Population Diversity and Structure in the Lettuce (<i>Lactuca</i> Species) Phyllosphere. <i>Applied and Environmental Microbiology</i> , 2010, 76, 8117-8125.	3.1	176
70	Evaluation of rice-“legume”-rice cropping system on grain yield, nutrient uptake, nitrogen fixation, and chemical, physical, and biological properties of soil. <i>Biology and Fertility of Soils</i> , 2009, 45, 237-251.	4.3	20
71	Incorporation of nitrogen from crop residues into light-fraction organic matter in soils with contrasting management histories. <i>Biology and Fertility of Soils</i> , 2009, 45, 281-287.	4.3	9
72	Mycorrhizas and biomass crops: opportunities for future sustainable development. <i>Trends in Plant Science</i> , 2009, 14, 542-549.	8.8	65

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73	Chapter 7 Human Pathogens and the Phyllosphere. <i>Advances in Applied Microbiology</i> , 2008, 64, 183-221.	2.4	47
74	Study of the spatial variation of the biodegradation rate of the herbicide bentazone with soil depth using contrasting incubation methods. <i>Chemosphere</i> , 2008, 73, 1211-1215.	8.2	18
75	Microbial aspects of the interaction between soil depth and biodegradation of the herbicide isoproturon. <i>Chemosphere</i> , 2007, 66, 664-671.	8.2	50
76	Fungicide impacts on microbial communities in soils with contrasting management histories. <i>Chemosphere</i> , 2007, 69, 82-88.	8.2	183
77	What are the mechanisms and specificity of mycorrhization helper bacteria?. <i>New Phytologist</i> , 2007, 174, 707-710.	7.3	15
78	Changes to the structure of Sphingomonas spp. communities associated with biodegradation of the herbicide isoproturon in soil. <i>FEMS Microbiology Letters</i> , 2007, 269, 110-116.	1.8	28
79	Spatial variation in the degradation rate of the pesticides isoproturon, azoxystrobin and diflufenican in soil and its relationship with chemical and microbial properties. <i>Environmental Pollution</i> , 2006, 139, 279-287.	7.5	144
80	Importance of mycorrhization helper bacteria cell density and metabolite localization for the Pinus sylvestris-Lactarius rufus symbiosis. <i>FEMS Microbiology Ecology</i> , 2006, 56, 25-33.	2.7	40
81	Mycorrhization helper bacteria: a case of specificity for altering ectomycorrhiza architecture but not ectomycorrhiza formation. <i>Mycorrhiza</i> , 2006, 16, 533-541.	2.8	48
82	Field-scale study of the variability in pesticide biodegradation with soil depth and its relationship with soil characteristics. <i>Soil Biology and Biochemistry</i> , 2006, 38, 2910-2918.	8.8	92
83	Significance of Microbial Interactions in the Mycorrhizosphere. <i>Advances in Applied Microbiology</i> , 2006, 60, 97-132.	2.4	40
84	Technical considerations for the use of ¹⁵ N-DNA stable-isotope probing for functional microbial activity in soils. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1424-1428.	1.5	64
85	Microbial and biochemical soil quality indicators and their potential for differentiating areas under contrasting agricultural management regimes. <i>Soil Biology and Biochemistry</i> , 2004, 36, 1785-1792.	8.8	311
86	Microbial degradation of isoproturon and related phenylurea herbicides in and below agricultural fields. <i>FEMS Microbiology Ecology</i> , 2003, 45, 1-11.	2.7	189
87	Litter decomposition, ectomycorrhizal roots and the 'Gadgil' effect. <i>New Phytologist</i> , 2003, 158, 228-229.	7.3	44
88	In-Field Spatial Variability in the Degradation of the Phenyl-Urea Herbicide Isoproturon Is the Result of Interactions between Degradative Sphingomonas spp. and Soil pH. <i>Applied and Environmental Microbiology</i> , 2003, 69, 827-834.	3.1	141
89	Interactions between crop residue and soil organic matter quality and the functional diversity of soil microbial communities. <i>Soil Biology and Biochemistry</i> , 2002, 34, 1073-1082.	8.8	288
90	Degradation of contrasting pesticides by white rot fungi and its relationship with ligninolytic potential. <i>FEMS Microbiology Letters</i> , 2002, 212, 59-63.	1.8	190

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91	Characterisation of bacteria from <i>Pinus sylvestris</i> – <i>Suillus luteus</i> mycorrhizas and their effects on root–fungus interactions and plant growth. <i>FEMS Microbiology Ecology</i> , 2002, 39, 219-227.	2.7	69
92	Degradation of contrasting pesticides by white rot fungi and its relationship with ligninolytic potential. <i>FEMS Microbiology Letters</i> , 2002, 212, 59-63.	1.8	4
93	Spatial heterogeneity in the metabolism and dynamics of isoproturon degrading microbial communities in soil. <i>Biology and Fertility of Soils</i> , 2001, 33, 484-489.	4.3	58
94	Bacteria associated with <i>Pinus sylvestris</i> – <i>Lactarius rufus</i> ectomycorrhizas and their effects on mycorrhiza formation in vitro. <i>New Phytologist</i> , 2001, 151, 743-751.	7.3	160
95	Inhibition of soil nitrifying bacteria communities and their activities by glucosinolate hydrolysis products. <i>Soil Biology and Biochemistry</i> , 2000, 32, 1261-1269.	8.8	141
96	Characterisation of volatile sulphur-containing compounds produced during decomposition of <i>Brassica juncea</i> tissues in soil. <i>Soil Biology and Biochemistry</i> , 1999, 31, 695-703.	8.8	131
97	Fate of nitrogen from crop residues as affected by biochemical quality and the microbial biomass. <i>Soil Biology and Biochemistry</i> , 1998, 30, 2055-2065.	8.8	87
98	Lignin and soluble phenolic degradation by ectomycorrhizal and ericoid mycorrhizal fungi. <i>Mycological Research</i> , 1997, 101, 1348-1354.	2.5	181
99	Effects of the soluble polyphenol tannic acid on the activities of ericoid and ectomycorrhizal fungi. <i>Soil Biology and Biochemistry</i> , 1996, 28, 1595-1602.	8.8	94
100	Nitrogen mobilization from protein-polyphenol complex by ericoid and ectomycorrhizal fungi. <i>Soil Biology and Biochemistry</i> , 1996, 28, 1603-1612.	8.8	187
101	The structure and function of the vegetative mycelium of ectomycorrhizal plants. VI. Activities of nutrient mobilizing enzymes in birch litter colonized by <i>Paxillus involutus</i> (Fr.) Fr.. <i>New Phytologist</i> , 1995, 130, 411-417.	7.3	110
102	The structure and function of the vegetative mycelium of ectomycorrhizal plants. V. Foraging behaviour and translocation of nutrients from exploited litter. <i>New Phytologist</i> , 1995, 130, 401-409.	7.3	282
103	Two Receptor-Like Kinases Required for <i>Arabidopsis</i> Endodermal Root Organisation Shape the Rhizosphere Microbiome. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2