

Romain L Barnard

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

4,465
citations

186209

28
h-index

302012

39
g-index

40
all docs

40
docs citations

40
times ranked

6818
citing authors

#	ARTICLE	IF	CITATIONS
1	Responses of soil bacterial and fungal communities to extreme desiccation and rewetting. <i>ISME Journal</i> , 2013, 7, 2229-2241.	4.4	762
2	Evaluating rRNA as an indicator of microbial activity in environmental communities: limitations and uses. <i>ISME Journal</i> , 2013, 7, 2061-2068.	4.4	661
3	Global change, nitrification, and denitrification: A review. <i>Global Biogeochemical Cycles</i> , 2005, 19, .	1.9	310
4	Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: Patterns, mechanisms, and open questions. <i>Basic and Applied Ecology</i> , 2017, 23, 1-73.	1.2	307
5	Drought effects on allocation of recent carbon: from beech leaves to soil CO ₂ efflux. <i>New Phytologist</i> , 2009, 184, 950-961.	3.5	280
6	Tracing carbon and oxygen isotope signals from newly assimilated sugars in the leaves to the tree-ring archive. <i>Plant, Cell and Environment</i> , 2009, 32, 780-795.	2.8	207
7	Changing precipitation pattern alters soil microbial community response to wet-up under a Mediterranean-type climate. <i>ISME Journal</i> , 2015, 9, 946-957.	4.4	166
8	Temporal dynamics of the carbon isotope composition in a <i>Pinus sylvestris</i> stand: from newly assimilated organic carbon to respired carbon dioxide. <i>Oecologia</i> , 2008, 156, 737-750.	0.9	140
9	Effectiveness of ecological rescue for altered soil microbial communities and functions. <i>ISME Journal</i> , 2017, 11, 272-283.	4.4	135
10	Plant traits alone are poor predictors of ecosystem properties and long-term ecosystem functioning. <i>Nature Ecology and Evolution</i> , 2020, 4, 1602-1611.	3.4	114
11	Symbiont identity matters: carbon and phosphorus fluxes between <i>Medicago truncatula</i> and different arbuscular mycorrhizal fungi. <i>Mycorrhiza</i> , 2011, 21, 689-702.	1.3	102
12	Diversity Promotes Temporal Stability across Levels of Ecosystem Organization in Experimental Grasslands. <i>PLoS ONE</i> , 2010, 5, e13382.	1.1	95
13	Depth matters: effects of precipitation regime on soil microbial activity upon rewetting of a plant-soil system. <i>ISME Journal</i> , 2018, 12, 1061-1071.	4.4	94
14	A comparison of the strength of biodiversity effects across multiple functions. <i>Oecologia</i> , 2013, 173, 223-237.	0.9	91
15	Effects of drought and N-fertilization on N cycling in two grassland soils. <i>Oecologia</i> , 2013, 171, 705-717.	0.9	91
16	Rewetting of soil: Revisiting the origin of soil CO ₂ emissions. <i>Soil Biology and Biochemistry</i> , 2020, 147, 107819.	4.2	87
17	Evaporative enrichment and time lags between $\delta^{18}\text{O}$ of leaf water and organic pools in a pine stand. <i>Plant, Cell and Environment</i> , 2007, 30, 539-550.	2.8	84
18	Several components of global change alter nitrifying and denitrifying activities in an annual grassland. <i>Functional Ecology</i> , 2006, 20, 557-564.	1.7	83

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19	Soil Environmental Conditions and Microbial Build-Up Mediate the Effect of Plant Diversity on Soil Nitrifying and Denitrifying Enzyme Activities in Temperate Grasslands. <i>PLoS ONE</i> , 2013, 8, e61069.	1.1	78
20	The $\delta^{18}O$ of root crown water best reflects source water $\delta^{18}O$ in different types of herbaceous species. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 3799-3802.	0.7	62
21	Plant species diversity affects soil-atmosphere fluxes of methane and nitrous oxide. <i>Oecologia</i> , 2016, 181, 919-930.	0.9	56
22	Dynamics of nitrifying activities, denitrifying activities and nitrogen in grassland mesocosms as altered by elevated CO ₂ . <i>New Phytologist</i> , 2004, 162, 365-376.	3.5	48
23	Flood pulses control soil nitrogen cycling in a dynamic river floodplain. <i>Geoderma</i> , 2014, 228-229, 14-24.	2.3	45
24	Atmospheric CO ₂ elevation has little effect on nitrifying and denitrifying enzyme activity in four European grasslands. <i>Global Change Biology</i> , 2004, 10, 488-497.	4.2	44
25	Drought Stress Memory at the Plant Cycle Level: A Review. <i>Plants</i> , 2021, 10, 1873.	1.6	44
26	Effects of Plant Diversity, Functional Group Composition, and Fertilization on Soil Microbial Properties in Experimental Grassland. <i>PLoS ONE</i> , 2015, 10, e0125678.	1.1	37
27	Global Change Could Amplify Fire Effects on Soil Greenhouse Gas Emissions. <i>PLoS ONE</i> , 2011, 6, e20105.	1.1	35
28	Short-Term Uptake of ¹⁵ N by a Grass and Soil Micro-Organisms after Long-Term Exposure to Elevated CO ₂ . <i>Plant and Soil</i> , 2006, 280, 91-99.	1.8	28
29	Plant, soil microbial and soil inorganic nitrogen responses to elevated CO ₂ : a study in microcosms of <i>Holcus lanatus</i> . <i>Acta Oecologica</i> , 2005, 27, 171-178.	0.5	27
30	Impacts of summer water limitation on the carbon balance of a Scots pine forest in the southern upper Rhine plain. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1815-1826.	1.9	27
31	Bacterial communities drive the resistance of soil multifunctionality to land-use change in karst soils. <i>European Journal of Soil Biology</i> , 2021, 104, 103313.	1.4	25
32	The dissipation and microbial ecotoxicity of tebuconazole and its transformation products in soil under standard laboratory and simulated winter conditions. <i>Science of the Total Environment</i> , 2018, 637-638, 892-906.	3.9	23
33	Soil Nitrogen Dynamics in a River Floodplain Mosaic. <i>Journal of Environmental Quality</i> , 2012, 41, 2033-2045.	1.0	22
34	Ontogeny and leaf gas exchange mediate the carbon isotopic signature of herbaceous plants. <i>Plant, Cell and Environment</i> , 2011, 34, 465-479.	2.8	19
35	Precipitation patterns and N availability alter plant-soil microbial C and N dynamics. <i>Plant and Soil</i> , 2021, 466, 151-163.	1.8	11
36	Physiological controls of the isotopic time lag between leaf assimilation and soil CO ₂ efflux. <i>Functional Plant Biology</i> , 2014, 41, 850.	1.1	9

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37	Effects of contrasting precipitation patterns on the trajectory of actively growing and inactive microbial communities after rewetting. <i>Soil Biology and Biochemistry</i> , 2019, 134, 172-174.	4.2	5
38	Aboveground and Belowground Plant Traits Explain Latitudinal Patterns in Topsoil Fungal Communities From Tropical to Cold Temperate Forests. <i>Frontiers in Microbiology</i> , 2021, 12, 633751.	1.5	5
39	Effects of Ontogeny on $\delta^{13}C$ of Plant- and Soil-Respired CO ₂ and on Respiratory Carbon Fractionation in C ₃ Herbaceous Species. <i>PLoS ONE</i> , 2016, 11, e0151583.	1.1	4