

Romain L Barnard

List of Publications by Year in descending order

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39
papers

4,465
citations

186265
28
h-index

302126
39
g-index

40
all docs

40
docs citations

40
times ranked

6818
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.2	25
2	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.	3.5	5
3	Precipitation patterns and N availability alter plant-soil microbial C and N dynamics. <i>Plant and Soil</i> , 2021, 466, 151-163.	3.7	11
4	Drought Stress Memory at the Plant Cycle Level: A Review. <i>Plants</i> , 2021, 10, 1873.	3.5	44
5	Plant traits alone are poor predictors of ecosystem properties and long-term ecosystem functioning. <i>Nature Ecology and Evolution</i> , 2020, 4, 1602-1611.	7.8	114
6	Rewetting of soil: Revisiting the origin of soil CO ₂ emissions. <i>Soil Biology and Biochemistry</i> , 2020, 147, 107819.	8.8	87
7	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.	8.8	5
8	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.	9.8	94
9	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.	8.0	23
10	Effectiveness of ecological rescue for altered soil microbial communities and functions. <i>ISME Journal</i> , 2017, 11, 272-283.	9.8	135
11	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.	2.7	307
12	Plant species diversity affects soil-atmosphere fluxes of methane and nitrous oxide. <i>Oecologia</i> , 2016, 181, 919-930.	2.0	56
13	Effects of Ontogeny on $\delta^{13}\text{C}$ of Plant- and Soil-Respired CO ₂ and on Respiratory Carbon Fractionation in C ₃ Herbaceous Species. <i>PLoS ONE</i> , 2016, 11, e0151583.	2.5	4
14	Changing precipitation pattern alters soil microbial community response to wet-up under a Mediterranean-type climate. <i>ISME Journal</i> , 2015, 9, 946-957.	9.8	166
15	Effects of Plant Diversity, Functional Group Composition, and Fertilization on Soil Microbial Properties in Experimental Grassland. <i>PLoS ONE</i> , 2015, 10, e0125678.	2.5	37
16	Flood pulses control soil nitrogen cycling in a dynamic river floodplain. <i>Geoderma</i> , 2014, 228-229, 14-24.	5.1	45
17	Physiological controls of the isotopic time lag between leaf assimilation and soil CO ₂ efflux. <i>Functional Plant Biology</i> , 2014, 41, 850.	2.1	9
18	Responses of soil bacterial and fungal communities to extreme desiccation and rewetting. <i>ISME Journal</i> , 2013, 7, 2229-2241.	9.8	762

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19	A comparison of the strength of biodiversity effects across multiple functions. <i>Oecologia</i> , 2013, 173, 223-237.	2.0	91
20	Effects of drought and N-fertilization on N cycling in two grassland soils. <i>Oecologia</i> , 2013, 171, 705-717.	2.0	91
21	Evaluating rRNA as an indicator of microbial activity in environmental communities: limitations and uses. <i>ISME Journal</i> , 2013, 7, 2061-2068.	9.8	661
22	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.	2.5	78
23	Soil Nitrogen Dynamics in a River Floodplain Mosaic. <i>Journal of Environmental Quality</i> , 2012, 41, 2033-2045.	2.0	22
24	Ontogeny and leaf gas exchange mediate the carbon isotopic signature of herbaceous plants. <i>Plant, Cell and Environment</i> , 2011, 34, 465-479.	5.7	19
25	Symbiont identity matters: carbon and phosphorus fluxes between <i>Medicago truncatula</i> and different arbuscular mycorrhizal fungi. <i>Mycorrhiza</i> , 2011, 21, 689-702.	2.8	102
26	Global Change Could Amplify Fire Effects on Soil Greenhouse Gas Emissions. <i>PLoS ONE</i> , 2011, 6, e20105.	2.5	35
27	Diversity Promotes Temporal Stability across Levels of Ecosystem Organization in Experimental Grasslands. <i>PLoS ONE</i> , 2010, 5, e13382.	2.5	95
28	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.	5.7	207
29	Drought effects on allocation of recent carbon: from beech leaves to soil CO ₂ efflux. <i>New Phytologist</i> , 2009, 184, 950-961.	7.3	280
30	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.	2.0	140
31	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.	4.8	27
32	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.	5.7	84
33	The $\delta^{18}\text{O}$ of root crown water best reflects source water $\delta^{18}\text{O}$ in different types of herbaceous species. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 3799-3802.	1.5	62
34	Several components of global change alter nitrifying and denitrifying activities in an annual grassland. <i>Functional Ecology</i> , 2006, 20, 557-564.	3.6	83
35	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.	3.7	28
36	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.	1.1	27

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37	Global change, nitrification, and denitrification: A review. Global Biogeochemical Cycles, 2005, 19, .	4.9	310
38	Atmospheric CO2 elevation has little effect on nitrifying and denitrifying enzyme activity in four European grasslands. Global Change Biology, 2004, 10, 488-497.	9.5	44
39	Dynamics of nitrifying activities, denitrifying activities and nitrogen in grassland mesocosms as altered by elevated CO 2. New Phytologist, 2004, 162, 365-376.	7.3	48