

Manuel Delgado-Baquerizo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

195 papers	9,534 citations	50 h-index	93 g-index
216 ext. papers	14,235 ext. citations	8.5 avg, IF	6.62 L-index

#	Paper	IF	Citations
195	Priming effects in soils across Europe.. <i>Global Change Biology</i> , 2022 ,	11.4	4
194	Temperature thresholds drive the global distribution of soil fungal decomposers.. <i>Global Change Biology</i> , 2022 ,	11.4	2
193	Environmental filtering controls soil biodiversity in wet tropical ecosystems. <i>Soil Biology and Biochemistry</i> , 2022 , 166, 108571	7.5	0
192	Polar soils exhibit distinct patterns in microbial diversity and dominant phylotypes. <i>Soil Biology and Biochemistry</i> , 2022 , 166, 108550	7.5	4
191	Microbial assemblies associated with temperature sensitivity of soil respiration along an altitudinal gradient.. <i>Science of the Total Environment</i> , 2022 , 153257	10.2	1
190	Limited contribution of post-fire eco-engineering techniques to support post-fire plant diversity.. <i>Science of the Total Environment</i> , 2022 , 815, 152894	10.2	1
189	Suppressed phosphorus-mineralizing bacteria after three decades of fertilization. <i>Agriculture, Ecosystems and Environment</i> , 2022 , 323, 107679	5.7	4
188	Multikingdom interactions govern the microbiome in subterranean cultural heritage sites.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2121141119	11.5	0
187	Simplifying the complexity of the soil microbiome to guide the development of next-generation SynComs 2022 , 1, 9-15		0
186	Humidity and low pH boost occurrence of Onygenales fungi in soil at global scale. <i>Soil Biology and Biochemistry</i> , 2022 , 167, 108617	7.5	0
185	Long-term regional evidence of the effects of livestock grazing on soil microbial community structure and functions in surface and deep soil layers. <i>Soil Biology and Biochemistry</i> , 2022 , 168, 108629	7.5	0
184	Pedogenesis shapes predator-prey relationships within soil microbiomes.. <i>Science of the Total Environment</i> , 2022 , 828, 154405	10.2	0
183	Temperature and Rainfall Patterns Constrain the Multidimensional Rewilding of Global Forests.. <i>Advanced Science</i> , 2022 , e2201144	13.6	0
182	Phylotype diversity within soil fungal functional groups drives ecosystem stability.. <i>Nature Ecology and Evolution</i> , 2022 ,	12.3	3
181	Water deficit affects inter-kingdom microbial connections in plant rhizosphere.. <i>Environmental Microbiology</i> , 2022 ,	5.2	1
180	Functional soil mycobiome across ecosystems. <i>Journal of Proteomics</i> , 2021 , 252, 104428	3.9	4
179	Fungi drive soil multifunctionality in the coastal salt marsh ecosystem. <i>Science of the Total Environment</i> , 2021 , 151673	10.2	2

178	Microbial traits determine soil C emission in response to fresh carbon inputs in forests across biomes. <i>Global Change Biology</i> , 2021 , 28, 1516	11.4	3
177	Ecosystem functions are related to tree diversity in forests but soil biodiversity in open woodlands and shrublands. <i>Journal of Ecology</i> , 2021 , 109, 4158	6	1
176	Cascading effects of N fertilization activate biologically driven mechanisms promoting P availability in a semi-arid grassland ecosystem. <i>Functional Ecology</i> , 2021 , 35, 1001-1011	5.6	2
175	Azorella Cushion Plants and Aridity are Important Drivers of Soil Microbial Communities in Andean Ecosystems. <i>Ecosystems</i> , 2021 , 24, 1576	3.9	0
174	Soil aggregate size-dependent relationships between microbial functional diversity and multifunctionality. <i>Soil Biology and Biochemistry</i> , 2021 , 154, 108143	7.5	13
173	Experimental evidence of strong relationships between soil microbial communities and plant germination. <i>Journal of Ecology</i> , 2021 , 109, 2488-2498	6	4
172	Grazing impacts on ecosystem functions exceed those from mowing. <i>Plant and Soil</i> , 2021 , 464, 579	4.2	0
171	The structure and function of soil archaea across biomes. <i>Journal of Proteomics</i> , 2021 , 237, 104147	3.9	3
170	Deciphering Potential Roles of Earthworms in Mitigation of Antibiotic Resistance in the Soils from Diverse Ecosystems. <i>Environmental Science & Technology</i> , 2021 , 55, 7445-7455	10.3	11
169	Global diversity and ecological drivers of lichenised soil fungi. <i>New Phytologist</i> , 2021 , 231, 1210-1219	9.8	2
168	Biogeography of global drylands. <i>New Phytologist</i> , 2021 , 231, 540-558	9.8	22
167	Co-existing water and sediment bacteria are driven by contrasting environmental factors across glacier-fed aquatic systems. <i>Water Research</i> , 2021 , 198, 117139	12.5	12
166	A global overview of the trophic structure within microbiomes across ecosystems. <i>Environment International</i> , 2021 , 151, 106438	12.9	12
165	Rainfall frequency and soil water availability regulate soil methane and nitrous oxide fluxes from a native forest exposed to elevated carbon dioxide. <i>Functional Ecology</i> , 2021 , 35, 1833-1847	5.6	0
164	Rare soil microbial taxa regulate the negative effects of land degradation drivers on soil organic matter decomposition. <i>Journal of Applied Ecology</i> , 2021 , 58, 1658	5.8	1
163	Global homogenization of the structure and function in the soil microbiome of urban greenspaces. <i>Science Advances</i> , 2021 , 7,	14.3	10
162	Ecosystem coupling: A unifying framework to understand the functioning and recovery of ecosystems. <i>One Earth</i> , 2021 , 4, 951-966	8.1	6
161	Biodiversity of key-stone phylotypes determines crop production in a 4-decade fertilization experiment. <i>ISME Journal</i> , 2021 , 15, 550-561	11.9	47

160	Soil element coupling is driven by ecological context and atomic mass. <i>Ecology Letters</i> , 2021 , 24, 319-326	4.0	4
159	Ecosystem properties in urban areas vary with habitat type and settlement age. <i>Plant and Soil</i> , 2021 , 461, 489-500	4.2	1
158	Tracking, targeting, and conserving soil biodiversity. <i>Science</i> , 2021 , 371, 239-241	33.3	43
157	Evaluation of Microbe-Driven Soil Organic Matter Quantity and Quality by Thermodynamic Theory. <i>MBio</i> , 2021 , 12,	7.8	2
156	Global projections of the soil microbiome in the Anthropocene. <i>Global Ecology and Biogeography</i> , 2021 , 30, 987-999	6.1	7
155	Soil microbial diversity-biomass relationships are driven by soil carbon content across global biomes. <i>ISME Journal</i> , 2021 , 15, 2081-2091	11.9	31
154	Generalist Taxa Shape Fungal Community Structure in Cropping Ecosystems. <i>Frontiers in Microbiology</i> , 2021 , 12, 678290	5.7	0
153	Trophic level drives the host microbiome of soil invertebrates at a continental scale. <i>Microbiome</i> , 2021 , 9, 189	16.6	2
152	Changes in ecosystem properties after post-fire management strategies in wildfire-affected Mediterranean forests. <i>Journal of Applied Ecology</i> , 2021 , 58, 836-846	5.8	7
151	Seasonal effects of altered precipitation regimes on ecosystem-level CO ₂ fluxes and their drivers in a grassland from Eastern Australia. <i>Plant and Soil</i> , 2021 , 460, 435-451	4.2	2
150	Vegetation structure determines the spatial variability of soil biodiversity across biomes. <i>Scientific Reports</i> , 2020 , 10, 21500	4.9	3
149	The proportion of soil-borne pathogens increases with warming at the global scale. <i>Nature Climate Change</i> , 2020 , 10, 550-554	21.4	79
148	Space Is More Important than Season when Shaping Soil Microbial Communities at a Large Spatial Scale. <i>MSystems</i> , 2020 , 5,	7.6	23
147	Phosphorus addition regulates the responses of soil multifunctionality to nitrogen over-fertilization in a temperate grassland. <i>Plant and Soil</i> , 2020 , 1	4.2	5
146	Abundance of kinless hubs within soil microbial networks are associated with high functional potential in agricultural ecosystems. <i>Environment International</i> , 2020 , 142, 105869	12.9	58
145	Plant Microbiomes: Do Different Preservation Approaches and Primer Sets Alter Our Capacity to Assess Microbial Diversity and Community Composition?. <i>Frontiers in Plant Science</i> , 2020 , 11, 993	6.2	8
144	Decoupled diversity patterns in bacteria and fungi across continental forest ecosystems. <i>Soil Biology and Biochemistry</i> , 2020 , 144, 107763	7.5	29
143	The global-scale distributions of soil protists and their contributions to belowground systems. <i>Science Advances</i> , 2020 , 6, eaax8787	14.3	101

142	Biocrusts Modulate Responses of Nitrous Oxide and Methane Soil Fluxes to Simulated Climate Change in a Mediterranean Dryland. <i>Ecosystems</i> , 2020 , 23, 1690-1701	3.9	10
141	Livestock overgrazing disrupts the positive associations between soil biodiversity and nitrogen availability. <i>Functional Ecology</i> , 2020 , 34, 1713-1720	5.6	13
140	Global ecosystem thresholds driven by aridity. <i>Science</i> , 2020 , 367, 787-790	33.3	192
139	Multiple elements of soil biodiversity drive ecosystem functions across biomes. <i>Nature Ecology and Evolution</i> , 2020 , 4, 210-220	12.3	160
138	Microbial taxonomic and functional attributes consistently predict soil CO emissions across contrasting croplands. <i>Science of the Total Environment</i> , 2020 , 702, 134885	10.2	9
137	Climatic vulnerabilities and ecological preferences of soil invertebrates across biomes. <i>Molecular Ecology</i> , 2020 , 29, 752-761	5.7	12
136	Multiple trade-offs regulate the effects of woody plant removal on biodiversity and ecosystem functions in global rangelands. <i>Global Change Biology</i> , 2020 , 26, 709-720	11.4	12
135	Surface indicators are correlated with soil multifunctionality in global drylands. <i>Journal of Applied Ecology</i> , 2020 , 57, 424-435	5.8	14
134	Microbial resistance promotes plant production in a four-decade nutrient fertilization experiment. <i>Soil Biology and Biochemistry</i> , 2020 , 141, 107679	7.5	22
133	Rare microbial taxa as the major drivers of ecosystem multifunctionality in long-term fertilized soils. <i>Soil Biology and Biochemistry</i> , 2020 , 141, 107686	7.5	102
132	The effects of mowing and multi-level N fertilization on soil bacterial and fungal communities in a semiarid grassland are year-dependent. <i>Soil Biology and Biochemistry</i> , 2020 , 151, 108040	7.5	6
131	Crop microbiome and sustainable agriculture. <i>Nature Reviews Microbiology</i> , 2020 , 18, 601-602	22.2	45
130	Contrasting effects of N fertilization and mowing on ecosystem multifunctionality in a meadow steppe. <i>Soil Ecology Letters</i> , 2020 , 2, 268-280	2.7	3
129	Successional trajectory of bacterial communities in soil are shaped by plant-driven changes during secondary succession. <i>Scientific Reports</i> , 2020 , 10, 9864	4.9	9
128	Blind spots in global soil biodiversity and ecosystem function research. <i>Nature Communications</i> , 2020 , 11, 3870	17.4	72
127	Grazing and aridity have contrasting effects on the functional and taxonomic diversity of ants. <i>Basic and Applied Ecology</i> , 2020 , 48, 73-82	3.2	5
126	Crop production correlates with soil multitrophic communities at the large spatial scale. <i>Soil Biology and Biochemistry</i> , 2020 , 151, 108047	7.5	11
125	Contrasting environmental preferences of photosynthetic and non-photosynthetic soil cyanobacteria across the globe. <i>Global Ecology and Biogeography</i> , 2020 , 29, 2025-2038	6.1	6

124	The influence of soil age on ecosystem structure and function across biomes. <i>Nature Communications</i> , 2020 , 11, 4721	17.4	19
123	Links between soil microbial communities, functioning, and plant nutrition under altered rainfall in Australian grassland. <i>Ecological Monographs</i> , 2020 , 90, e01424	9	14
122	Grazing Regulates the Spatial Heterogeneity of Soil Microbial Communities Within Ecological Networks. <i>Ecosystems</i> , 2020 , 23, 932-942	3.9	11
121	Increases in aridity lead to drastic shifts in the assembly of dryland complex microbial networks. <i>Land Degradation and Development</i> , 2020 , 31, 346-355	4.4	14
120	Diversity-productivity relationships vary in response to increasing land-use intensity. <i>Plant and Soil</i> , 2020 , 450, 511-520	4.2	4
119	Effects of Spatial Variability and Relic DNA Removal on the Detection of Temporal Dynamics in Soil Microbial Communities. <i>MBio</i> , 2020 , 11,	7.8	29
118	Soil Microbial Biogeography in a Changing World: Recent Advances and Future Perspectives. <i>MSystems</i> , 2020 , 5,	7.6	31
117	Plant diversity and soil stoichiometry regulates the changes in multifunctionality during pine temperate forest secondary succession. <i>Science of the Total Environment</i> , 2019 , 697, 134204	10.2	25
116	Fungal richness contributes to multifunctionality in boreal forest soil. <i>Soil Biology and Biochemistry</i> , 2019 , 136, 107526	7.5	41
115	Plant-driven niche differentiation of ammonia-oxidizing bacteria and archaea in global drylands. <i>ISME Journal</i> , 2019 , 13, 2727-2736	11.9	26
114	A few Ascomycota taxa dominate soil fungal communities worldwide. <i>Nature Communications</i> , 2019 , 10, 2369	17.4	147
113	Soil amendments with ethylene precursor alleviate negative impacts of salinity on soil microbial properties and productivity. <i>Scientific Reports</i> , 2019 , 9, 6892	4.9	12
112	Losses in microbial functional diversity reduce the rate of key soil processes. <i>Soil Biology and Biochemistry</i> , 2019 , 135, 267-274	7.5	30
111	Global drivers of methane oxidation and denitrifying gene distribution in drylands. <i>Global Ecology and Biogeography</i> , 2019 , 28, 1230-1243	6.1	13
110	Effects of diet on gut microbiota of soil collembolans. <i>Science of the Total Environment</i> , 2019 , 676, 197-205	10.2	15
109	Diversifying livestock promotes multidiversity and multifunctionality in managed grasslands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6187-6192	11.5	111
108	Changes in belowground biodiversity during ecosystem development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6891-6896	11.5	78
107	Obscure soil microbes and where to find them. <i>ISME Journal</i> , 2019 , 13, 2120-2124	11.9	14

106	Multifunctionality debt in global drylands linked to past biome and climate. <i>Global Change Biology</i> , 2019 , 25, 2152-2161	11.4	8
105	Global ecological predictors of the soil priming effect. <i>Nature Communications</i> , 2019 , 10, 3481	17.4	56
104	A Global Survey of Mycobacterial Diversity in Soil. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	18
103	Suppressed N fixation and diazotrophs after four decades of fertilization. <i>Microbiome</i> , 2019 , 7, 143	16.6	86
102	Cross-Biome Drivers of Soil Bacterial Alpha Diversity on a Worldwide Scale. <i>Ecosystems</i> , 2019 , 22, 1220-1231	13.1	32
101	Ant colonies promote the diversity of soil microbial communities. <i>ISME Journal</i> , 2019 , 13, 1114-1118	11.9	14
100	Ecosystem type and resource quality are more important than global change drivers in regulating early stages of litter decomposition. <i>Soil Biology and Biochemistry</i> , 2019 , 129, 144-152	7.5	27
99	The influence of climatic legacies on the distribution of dryland biocrust communities. <i>Global Change Biology</i> , 2019 , 25, 327-336	11.4	13
98	Temperature and agriculture are largely associated with fire activity in Central Chile across different temporal periods. <i>Forest Ecology and Management</i> , 2019 , 433, 535-543	3.9	22
97	Drought consistently alters the composition of soil fungal and bacterial communities in grasslands from two continents. <i>Global Change Biology</i> , 2018 , 24, 2818-2827	11.4	114
96	Temperature and aridity regulate spatial variability of soil multifunctionality in drylands across the globe. <i>Ecology</i> , 2018 , 99, 1184-1193	4.6	24
95	Functional groups of soil fungi decline under grazing. <i>Plant and Soil</i> , 2018 , 426, 51-60	4.2	23
94	Plant attributes explain the distribution of soil microbial communities in two contrasting regions of the globe. <i>New Phytologist</i> , 2018 , 219, 574-587	9.8	61
93	Intransitive competition is common across five major taxonomic groups and is driven by productivity, competitive rank and functional traits. <i>Journal of Ecology</i> , 2018 , 106, 852-864	6	24
92	A global atlas of the dominant bacteria found in soil. <i>Science</i> , 2018 , 359, 320-325	33.3	759
91	Intraspecies variation in a widely distributed tree species regulates the responses of soil microbiome to different temperature regimes. <i>Environmental Microbiology Reports</i> , 2018 , 10, 167-178	3.7	4
90	Ecological drivers of soil microbial diversity and soil biological networks in the Southern Hemisphere. <i>Ecology</i> , 2018 , 99, 583-596	4.6	82
89	Biocrust-forming mosses mitigate the impact of aridity on soil microbial communities in drylands: observational evidence from three continents. <i>New Phytologist</i> , 2018 , 220, 824-835	9.8	23

88	Response to comment on "Climate legacies drive global soil carbon stocks in terrestrial ecosystem". <i>Science Advances</i> , 2018 , 4, eaat1296	14.3	0
87	Grazing reduces the capacity of Landscape Function Analysis to predict regional-scale nutrient availability or decomposition, but not total nutrient pools. <i>Ecological Indicators</i> , 2018 , 90, 494-501	5.8	11
86	Aridity Decouples C:N:P Stoichiometry Across Multiple Trophic Levels in Terrestrial Ecosystems. <i>Ecosystems</i> , 2018 , 21, 459-468	3.9	26
85	Soil fungal abundance and plant functional traits drive fertile island formation in global drylands. <i>Journal of Ecology</i> , 2018 , 106, 242-253	6	80
84	Livestock grazing and aridity reduce the functional diversity of biocrusts. <i>Plant and Soil</i> , 2018 , 429, 175-185	11.5	20
83	Pathways regulating decreased soil respiration with warming in a biocrust-dominated dryland. <i>Global Change Biology</i> , 2018 , 24, 4645-4656	11.4	21
82	Livestock grazing and forest structure regulate the assembly of ecological clusters within plant networks in eastern Australia. <i>Journal of Vegetation Science</i> , 2018 , 29, 788-797	3.1	6
81	Effects of climate legacies on above- and belowground community assembly. <i>Global Change Biology</i> , 2018 , 24, 4330-4339	11.4	14
80	Global gaps in soil biodiversity data. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1042-1043	12.3	56
79	Microbial Modulators and Mechanisms of Soil Carbon Storage 2018 , 73-115		3
78	Climate, Geography, and Soil Abiotic Properties as Modulators of Soil Carbon Storage 2018 , 137-165		0
77	Soil Nutrients and Soil Carbon Storage 2018 , 167-205		6
76	New insights into the role of microbial community composition in driving soil respiration rates. <i>Soil Biology and Biochemistry</i> , 2018 , 118, 35-41	7.5	62
75	Detecting macroecological patterns in bacterial communities across independent studies of global soils. <i>Nature Microbiology</i> , 2018 , 3, 189-196	26.6	86
74	Livestock activity increases exotic plant richness, but wildlife increases native richness, with stronger effects under low productivity. <i>Journal of Applied Ecology</i> , 2018 , 55, 766-776	5.8	25
73	Relative importance of urban and non-urban land-use types for potential denitrification derived N ₂ O: insights from a regional study. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2018 , 109, 453-460	0.9	
72	Environmental drivers of the geographical distribution of methanotrophs: Insights from a national survey. <i>Soil Biology and Biochemistry</i> , 2018 , 127, 264-279	7.5	13
71	Cascading effects from plants to soil microorganisms explain how plant species richness and simulated climate change affect soil multifunctionality. <i>Global Change Biology</i> , 2018 , 24, 5642-5654	11.4	36

70	Australian dryland soils are acidic and nutrient-depleted, and have unique microbial communities compared with other drylands. <i>Journal of Biogeography</i> , 2018 , 45, 2803-2814	4.1	18
69	Ecological Analyses of Mycobacteria in Showerhead Biofilms and Their Relevance to Human Health. <i>MBio</i> , 2018 , 9,	7.8	52
68	Consistent responses of soil microbial taxonomic and functional attributes to mercury pollution across China. <i>Microbiome</i> , 2018 , 6, 183	16.6	66
67	Experimentally testing the species-habitat size relationship on soil bacteria: A proof of concept. <i>Soil Biology and Biochemistry</i> , 2018 , 123, 200-206	7.5	11
66	Identity of plant, lichen and moss species connects with microbial abundance and soil functioning in Maritime Antarctica. <i>Plant and Soil</i> , 2018 , 429, 35-52	4.2	19
65	Identity of biocrust species and microbial communities drive the response of soil multifunctionality to simulated global change. <i>Soil Biology and Biochemistry</i> , 2017 , 107, 208-217	7.5	48
64	Contrasting Effects of Aridity and Grazing Intensity on Multiple Ecosystem Functions and Services in Australian Woodlands. <i>Land Degradation and Development</i> , 2017 , 28, 2098-2108	4.4	15
63	Climate legacies drive global soil carbon stocks in terrestrial ecosystems. <i>Science Advances</i> , 2017 , 3, e1602008	14.9	59
62	Rhizosphere-driven increase in nitrogen and phosphorus availability under elevated atmospheric CO ₂ in a mature Eucalyptus woodland. <i>Plant and Soil</i> , 2017 , 416, 283-295	4.2	29
61	Soil aggregation and associated microbial communities modify the impact of agricultural management on carbon content. <i>Environmental Microbiology</i> , 2017 , 19, 3070-3086	5.2	99
60	Competition drives the response of soil microbial diversity to increased grazing by vertebrate herbivores. <i>Ecology</i> , 2017 , 98, 1922-1931	4.6	58
59	Do grazing intensity and herbivore type affect soil health? Insights from a semi-arid productivity gradient. <i>Journal of Applied Ecology</i> , 2017 , 54, 976-985	5.8	76
58	Contrasting effects of two mammalian soil engineers on microbial communities. <i>Austral Ecology</i> , 2017 , 42, 380-384	1.5	4
57	Microbial richness and composition independently drive soil multifunctionality. <i>Functional Ecology</i> , 2017 , 31, 2330-2343	5.6	63
56	Circular linkages between soil biodiversity, fertility and plant productivity are limited to topsoil at the continental scale. <i>New Phytologist</i> , 2017 , 215, 1186-1196	9.8	66
55	Keystone microbial taxa regulate the invasion of a fungal pathogen in agro-ecosystems. <i>Soil Biology and Biochemistry</i> , 2017 , 111, 10-14	7.5	96
54	It is elemental: soil nutrient stoichiometry drives bacterial diversity. <i>Environmental Microbiology</i> , 2017 , 19, 1176-1188	5.2	154
53	Palaeoclimate explains a unique proportion of the global variation in soil bacterial communities. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1339-1347	12.3	44

52	Soil microbial communities drive the resistance of ecosystem multifunctionality to global change in drylands across the globe. <i>Ecology Letters</i> , 2017 , 20, 1295-1305	10	144
51	Effects of elevated CO on fine root biomass are reduced by aridity but enhanced by soil nitrogen: A global assessment. <i>Scientific Reports</i> , 2017 , 7, 15355	4.9	9
50	Identifying environmental drivers of greenhouse gas emissions under warming and reduced rainfall in boreal temperate forests. <i>Functional Ecology</i> , 2017 , 31, 2356-2368	5.6	36
49	Continental-scale Impacts of Livestock Grazing on Ecosystem Supporting and Regulating Services. <i>Land Degradation and Development</i> , 2017 , 28, 1473-1481	4.4	50
48	Experimental and observational studies find contrasting responses of soil nutrients to climate change. <i>ELife</i> , 2017 , 6,	8.9	46
47	Climatic conditions, soil fertility and atmospheric nitrogen deposition largely determine the structure and functioning of microbial communities in biocrust-dominated Mediterranean drylands. <i>Plant and Soil</i> , 2016 , 399, 271-282	4.2	26
46	Structure and functioning of dryland ecosystems in a changing world. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2016 , 47, 215-237	13.5	184
45	Mammalian engineers drive soil microbial communities and ecosystem functions across a disturbance gradient. <i>Journal of Animal Ecology</i> , 2016 , 85, 1636-1646	4.7	29
44	Biological Soil Crusts as a Model System in Ecology. <i>Ecological Studies</i> , 2016 , 407-425	1.1	9
43	Relative importance of soil properties and microbial community for soil functionality: insights from a microbial swap experiment. <i>Functional Ecology</i> , 2016 , 30, 1862-1873	5.6	64
42	Biotic communities cannot mitigate the negative effects of grazing on multiple ecosystem functions and services in an arid shrubland. <i>Plant and Soil</i> , 2016 , 401, 381-395	4.2	8
41	Microbial diversity drives multifunctionality in terrestrial ecosystems. <i>Nature Communications</i> , 2016 , 7, 10541	17.4	699
40	Species identity of biocrust-forming lichens drives the response of soil nitrogen cycle to altered precipitation frequency and nitrogen amendment. <i>Soil Biology and Biochemistry</i> , 2016 , 96, 128-136	7.5	31
39	Microsite Differentiation Drives the Abundance of Soil Ammonia Oxidizing Bacteria along Aridity Gradients. <i>Frontiers in Microbiology</i> , 2016 , 7, 505	5.7	22
38	Response of Soil Properties and Microbial Communities to Agriculture: Implications for Primary Productivity and Soil Health Indicators. <i>Frontiers in Plant Science</i> , 2016 , 7, 990	6.2	133
37	Biogeographic bases for a shift in crop C:N:P stoichiometries during domestication. <i>Ecology Letters</i> , 2016 , 19, 564-75	10	31
36	Biocrust-forming mosses mitigate the negative impacts of increasing aridity on ecosystem multifunctionality in drylands. <i>New Phytologist</i> , 2016 , 209, 1540-52	9.8	65
35	Lack of functional redundancy in the relationship between microbial diversity and ecosystem functioning. <i>Journal of Ecology</i> , 2016 , 104, 936-946	6	110

34	Carbon content and climate variability drive global soil bacterial diversity patterns. <i>Ecological Monographs</i> , 2016 , 86, 373-390	9	97
33	Microbial regulation of the soil carbon cycle: evidence from gene-enzyme relationships. <i>ISME Journal</i> , 2016 , 10, 2593-2604	11.9	178
32	Human impacts and aridity differentially alter soil N availability in drylands worldwide. <i>Global Ecology and Biogeography</i> , 2016 , 25, 36-45	6.1	26
31	Differences in thallus chemistry are related to species-specific effects of biocrust-forming lichens on soil nutrients and microbial communities. <i>Functional Ecology</i> , 2015 , 29, 1087-1098	5.6	66
30	Soil characteristics determine soil carbon and nitrogen availability during leaf litter decomposition regardless of litter quality. <i>Soil Biology and Biochemistry</i> , 2015 , 81, 134-142	7.5	68
29	Climate and soil properties limit the positive effects of land use reversion on carbon storage in Eastern Australia. <i>Scientific Reports</i> , 2015 , 5, 17866	4.9	42
28	Intransitive competition is widespread in plant communities and maintains their species richness. <i>Ecology Letters</i> , 2015 , 18, 790-798	10	100
27	Increasing aridity reduces soil microbial diversity and abundance in global drylands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15684-9	11.5	437
26	Functional traits determine plant co-occurrence more than environment or evolutionary relatedness in global drylands. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2014 , 16, 164-173 ³		52
25	Direct and indirect impacts of climate change on microbial and biocrust communities alter the resistance of the N cycle in a semiarid grassland. <i>Journal of Ecology</i> , 2014 , 102, 1592-1605	6	50
24	Climate and soil attributes determine plant species turnover in global drylands. <i>Journal of Biogeography</i> , 2014 , 41, 2307-2319	4.1	53
23	Changes in biocrust cover drive carbon cycle responses to climate change in drylands. <i>Global Change Biology</i> , 2014 , 20, 2697-2698	11.4	4
22	Plant diversity and ecosystem multifunctionality peak at intermediate levels of woody cover in global drylands. <i>Global Ecology and Biogeography</i> , 2014 , 23, 1408-1416	6.1	67
21	Biological soil crusts increase the resistance of soil nitrogen dynamics to changes in temperatures in a semi-arid ecosystem. <i>Plant and Soil</i> , 2013 , 366, 35-47	4.2	35
20	Vascular plants mediate the effects of aridity and soil properties on ammonia-oxidizing bacteria and archaea. <i>FEMS Microbiology Ecology</i> , 2013 , 85, 273-82	4.3	21
19	Biocrusts control the nitrogen dynamics and microbial functional diversity of semi-arid soils in response to nutrient additions. <i>Plant and Soil</i> , 2013 , 372, 643-654	4.2	40
18	Decoupling of soil nutrient cycles as a function of aridity in global drylands. <i>Nature</i> , 2013 , 502, 672-6	50.4	470
17	Changes in biocrust cover drive carbon cycle responses to climate change in drylands. <i>Global Change Biology</i> , 2013 , 19, 3835-47	11.4	173

16	Ionic exchange membranes (IEMs): A good indicator of soil inorganic N production. <i>Soil Biology and Biochemistry</i> , 2013 , 57, 964-968	7.5	22
15	Biological soil crusts affect small-scale spatial patterns of inorganic N in a semiarid Mediterranean grassland. <i>Journal of Arid Environments</i> , 2013 , 91, 147-150	2.5	21
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11	Aridity modulates N availability in arid and semiarid Mediterranean grasslands. <i>PLoS ONE</i> , 2013 , 8, e59807	3.7	35
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5	Unraveling the effects of spatial variability and relic DNA on the temporal dynamics of soil microbial communities		4
4	Ecological niche differentiation in soil cyanobacterial communities across the globe		1
3	A global survey of mycobacterial diversity in soil		4
2	Blind spots in global soil biodiversity and ecosystem function research		2
1	Temperature Increases Soil Respiration Across Ecosystem Types and Soil Development, But Soil Properties Determine the Magnitude of This Effect. <i>Ecosystems</i> , 1	3.9	1