

Climatic controls of decomposition drive the global biogeochemical cycles

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Strong spatial and temporal turnover of soil bacterial communities in South Africa's hyperdiverse fynbos biome. <i>Soil Biology and Biochemistry</i> , 2019, 136, 107541.	8.8	25
2	Alterations of Arbuscular Mycorrhizal Fungal Diversity in Soil with Elevation in Tropical Forests of China. <i>Diversity</i> , 2019, 11, 181.	1.7	12
3	Global mycorrhizal plant distribution linked to terrestrial carbon stocks. <i>Nature Communications</i> , 2019, 10, 5077.	12.8	170
4	Global imprint of mycorrhizal fungi on whole-plant nutrient economics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23163-23168.	7.1	169
5	Climate drives the spatial distribution of mycorrhizal host plants in terrestrial ecosystems. <i>Journal of Ecology</i> , 2019, 107, 2564-2573.	4.0	25
6	The global soil community and its influence on biogeochemistry. <i>Science</i> , 2019, 365, .	12.6	586
7	The ecologist who wants to map everything. <i>Nature</i> , 2019, 573, 478-481.	27.8	4
8	Constraining Carbon and Nutrient Flows in Soil With Ecological Stoichiometry. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	33
9	ILC3s take control in small intestine. <i>Nature Reviews Immunology</i> , 2019, 19, 353-353.	22.7	2
10	Contribution of bacterial-fungal balance to plant and animal health. <i>Current Opinion in Microbiology</i> , 2019, 49, 66-72.	5.1	45
11	Facultative mycorrhizal associations promote plant naturalization worldwide. <i>Ecosphere</i> , 2019, 10, e02937.	2.2	16
12	Climate change effects on plant-soil feedbacks and consequences for biodiversity and functioning of terrestrial ecosystems. <i>Science Advances</i> , 2019, 5, eaaz1834.	10.3	245
13	Decelerated carbon cycling by ectomycorrhizal fungi is controlled by substrate quality and community composition. <i>New Phytologist</i> , 2020, 226, 569-582.	7.3	53
14	Dual mycorrhizal plants: their ecology and relevance. <i>New Phytologist</i> , 2020, 225, 1835-1851.	7.3	119
15	Asymmetric patterns of global diversity among plants and mycorrhizal fungi. <i>Journal of Vegetation Science</i> , 2020, 31, 355-366.	2.2	20
16	Finding fungal ecological strategies: Is recycling an option?. <i>Fungal Ecology</i> , 2020, 46, 100902.	1.6	8
17	The DEEDS platform: Support for integrated data and computing across the research lifecycle. <i>Future Generation Computer Systems</i> , 2020, 111, 793-805.	7.5	4
18	Positive cascading effect of restoring forests. <i>International Soil and Water Conservation Research</i> , 2020, 8, 102.	6.5	9

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19	Imaging spectroscopy reveals the effects of topography and logging on the leaf chemistry of tropical forest canopy trees. <i>Global Change Biology</i> , 2020, 26, 989-1002.	9.5	37
20	Fungal functional ecology: bringing a trait-based approach to plant-associated fungi. <i>Biological Reviews</i> , 2020, 95, 409-433.	10.4	171
21	How does forest management affect fungal diversity and community composition? Current knowledge and future perspectives for the conservation of forest fungi. <i>Forest Ecology and Management</i> , 2020, 457, 117678.	3.2	100
22	New forest biomass carbon stock estimates in Northeast Asia based on multisource data. <i>Global Change Biology</i> , 2020, 26, 7045-7066.	9.5	20
23	Divergent above- and below-ground responses of fungal functional groups to forest thinning. <i>Soil Biology and Biochemistry</i> , 2020, 150, 108010.	8.8	15
24	Responses of arbuscular mycorrhizal fungi to nitrogen addition: A meta-analysis. <i>Global Change Biology</i> , 2020, 26, 7229-7241.	9.5	96
25	Biogeochemical Cycling on Land. , 2020, , 183-248.		2
26	On the Three Major Recycling Pathways in Terrestrial Ecosystems. <i>Trends in Ecology and Evolution</i> , 2020, 35, 767-775.	8.7	48
27	Resolving the mycorrhizal status of important northern hemisphere trees. <i>Plant and Soil</i> , 2020, 454, 3-34.	3.7	48
28	Soil carbon loss by experimental warming in a tropical forest. <i>Nature</i> , 2020, 584, 234-237.	27.8	132
29	Fine root-arbuscular mycorrhizal fungi interaction in Tropical Montane Forests: Effects of cover modifications and season. <i>Forest Ecology and Management</i> , 2020, 476, 118478.	3.2	10
30	Greater topoclimatic control of above-versus below-ground communities. <i>Global Change Biology</i> , 2020, 26, 6715-6728.	9.5	11
31	Three decades post-reforestation has not led to the reassembly of arbuscular mycorrhizal fungal communities associated with remnant primary forests. <i>Molecular Ecology</i> , 2020, 29, 4234-4247.	3.9	8
32	Back to Roots: The Role of Ectomycorrhizal Fungi in Boreal and Temperate Forest Restoration. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	58
33	Community composition of arctic root-associated fungi mirrors host plant phylogeny. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	2.7	16
34	Integrative ecology in the era of big data-From observation to prediction. <i>Science China Earth Sciences</i> , 2020, 63, 1429-1442.	5.2	14
35	Climate Disruption of Plant-Microbe Interactions. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2020, 51, 561-586.	8.3	72
36	Dominant community mycorrhizal types influence local spatial structure between adult and juvenile temperate forest tree communities. <i>Functional Ecology</i> , 2020, 34, 2571-2583.	3.6	7

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37	Spatial validation reveals poor predictive performance of large-scale ecological mapping models. Nature Communications, 2020, 11, 4540.	12.8	232
38	Tree mycorrhizal type mediates the strength of negative density dependence in temperate forests. Journal of Ecology, 2020, 108, 2601-2610.	4.0	25
39	The proportion of soil-borne pathogens increases with warming at the global scale. Nature Climate Change, 2020, 10, 550-554.	18.8	254
40	Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12192-12200.	7.1	140
41	Changes in mycorrhizal status and type in plant communities along altitudinal and ecological gradients—a case study from the Northern Urals (Russia). Mycorrhiza, 2020, 30, 445-454.	2.8	12
42	Global mycorrhizal fungal range sizes vary within and among mycorrhizal guilds but are not correlated with dispersal traits. Journal of Biogeography, 2020, 47, 1994-2001.	3.0	23
43	Connections and Feedback: Aquatic, Plant, and Soil Microbiomes in Heterogeneous and Changing Environments. BioScience, 2020, 70, 548-562.	4.9	11
44	Towards Unraveling Macroecological Patterns in Rhizosphere Microbiomes. Trends in Plant Science, 2020, 25, 1017-1029.	8.8	42
45	Lithological constraints on resource economies shape the mycorrhizal composition of a Bornean rain forest. New Phytologist, 2020, 228, 253-268.	7.3	23
46	Soil fungal networks maintain local dominance of ectomycorrhizal trees. Nature Communications, 2020, 11, 2636.	12.8	81
47	Codependency between plant and arbuscular mycorrhizal fungal communities: what is the evidence?. New Phytologist, 2020, 228, 828-838.	7.3	25
48	Independent evolutionary changes in fine-root traits among main clades during the diversification of seed plants. New Phytologist, 2020, 228, 541-553.	7.3	24
49	Symbiotic niche mapping reveals functional specialization by two ectomycorrhizal fungi that expands the host plant niche. Fungal Ecology, 2020, 46, 100960.	1.6	16
50	Temperate Forests Dominated by Arbuscular or Ectomycorrhizal Fungi Are Characterized by Strong Shifts from Saprotrophic to Mycorrhizal Fungi with Increasing Soil Depth. Microbial Ecology, 2021, 82, 377-390.	2.8	28
51	Distinct Assembly Processes and Microbial Communities Constrain Soil Organic Carbon Formation. One Earth, 2020, 2, 349-360.	6.8	74
52	Conceptualising the Global Forest Response to Liana Proliferation. Frontiers in Forests and Global Change, 2020, 3, .	2.3	21
53	Mixed Plantations of Eucalyptus and Leguminous Trees. , 2020, , .		3
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55	Stepping forward from relevance in mycorrhizal ecology. <i>New Phytologist</i> , 2020, 226, 292-294.	7.3	7
56	Ectomycorrhizal fungal diversity predicted to substantially decline due to climate changes in North American Pinaceae forests. <i>Journal of Biogeography</i> , 2020, 47, 772-782.	3.0	42
57	Decoupled diversity patterns in bacteria and fungi across continental forest ecosystems. <i>Soil Biology and Biochemistry</i> , 2020, 144, 107763.	8.8	78
58	Climate change influences mycorrhizal fungal-plant interactions, but conclusions are limited by geographical study bias. <i>Ecology</i> , 2020, 101, e02978.	3.2	96
59	Highly invasive tree species are more dependent on mutualisms. <i>Ecology</i> , 2020, 101, e02997.	3.2	25
60	How do monocultures of fourteen forest tree species affect arbuscular mycorrhizal fungi abundance and species richness and composition in soil?. <i>Forest Ecology and Management</i> , 2020, 465, 118091.	3.2	30
61	Tamm Review: Influence of forest management activities on soil organic carbon stocks: A knowledge synthesis. <i>Forest Ecology and Management</i> , 2020, 466, 118127.	3.2	327
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63	Neuronless Knowledge Processing in Forests. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2509.	2.5	2
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66	Soil Microbial Biogeography in a Changing World: Recent Advances and Future Perspectives. <i>MSystems</i> , 2020, 5, .	3.8	84
67	Biotic interactions with mycorrhizal systems as extended nutrient acquisition strategies shaping forest soil communities and functions. <i>Basic and Applied Ecology</i> , 2021, 50, 25-42.	2.7	19
68	Developing holistic models of the structure and function of the soil/plant/atmosphere continuum. <i>Plant and Soil</i> , 2021, 461, 29-42.	3.7	8
69	A framework to assess the carbon supply-consumption balance in plant roots. <i>New Phytologist</i> , 2021, 229, 659-664.	7.3	35
70	The role of arbuscular mycorrhizal fungi in nonnative plant invasion along mountain roads. <i>New Phytologist</i> , 2021, 230, 1156-1168.	7.3	19
71	Exploring Synergies and Trade-offs between Climate Change and the Sustainable Development Goals. , 2021,, .		10
72	Mycorrhizal type influences plant density dependence and species richness across 15 temperate forests. <i>Ecology</i> , 2021, 102, e03259.	3.2	20

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74	Soil Biodiversity: State-of-the-Art and Possible Implementation in Chemical Risk Assessment. <i>Integrated Environmental Assessment and Management</i> , 2021, 17, 541-551.	2.9	10
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76	How competitive intransitivity and niche overlap affect spatial coexistence. <i>Oikos</i> , 2021, 130, 260-273.	2.7	17
77	Saprotrophic and ectomycorrhizal fungi exhibit contrasting richness patterns along elevational gradients in cool-temperate montane forests. <i>Fungal Ecology</i> , 2021, 50, 101036.	1.6	15
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79	Comparative genomics reveals dynamic genome evolution in host specialist ectomycorrhizal fungi. <i>New Phytologist</i> , 2021, 230, 774-792.	7.3	37
80	Nitrogen cycling microbiomes are structured by plant mycorrhizal associations with consequences for nitrogen oxide fluxes in forests. <i>Global Change Biology</i> , 2021, 27, 1068-1082.	9.5	41
81	Global macroecology of nitrogen-fixing plants. <i>Global Ecology and Biogeography</i> , 2021, 30, 514-526.	5.8	16
83	Ten golden rules for reforestation to optimize carbon sequestration, biodiversity recovery and livelihood benefits. <i>Global Change Biology</i> , 2021, 27, 1328-1348.	9.5	306
84	Distribution of plant mycorrhizal traits along an elevational gradient does not fully mirror the latitudinal gradient. <i>Mycorrhiza</i> , 2021, 31, 149-159.	2.8	13
85	Structure of AMF Community in an Agroforestry System of Coffee and Macauba Palm. <i>Floresta E Ambiente</i> , 2021, 28, .	0.4	3
86	How much carbon can be added to soil by sorption?. <i>Biogeochemistry</i> , 2021, 152, 127-142.	3.5	27
87	Symbiosis in a Rapidly Changing World. <i>Advances in Environmental Microbiology</i> , 2021, , 263-296.	0.3	1
88	Trait-Based Modeling of Terrestrial Ecosystems: Advances and Challenges Under Global Change. <i>Current Climate Change Reports</i> , 2021, 7, 1-13.	8.6	17
89	Decadal changes in fire frequencies shift tree communities and functional traits. <i>Nature Ecology and Evolution</i> , 2021, 5, 504-512.	7.8	41
90	Complementary Roles of Wood-Inhabiting Fungi and Bacteria Facilitate Deadwood Decomposition. <i>MSystems</i> , 2021, 6, .	3.8	71
91	Soil Bacterial Communities and Diversity in Alpine Grasslands on the Tibetan Plateau Based on 16S rRNA Gene Sequencing. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	18

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94	Trait positions for elevated invasiveness in adaptive ecological networks. Biological Invasions, 2021, 23, 1965-1985.	2.4	18
95	Evolution and biogeography of actinorhizal plants and legumes: A comparison. Journal of Ecology, 2021, 109, 1098-1121.	4.0	39
96	The centered ternary balance scheme: A technique to visualize surfaces of unbalanced three-part compositions. Demographic Research, 0, 44, 443-458.	3.0	3
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98	The mycorrhizal tragedy of the commons. Ecology Letters, 2021, 24, 1215-1224.	6.4	13
99	Understanding patterns and potential drivers of forest diversity in northeastern China using machine-learning algorithms. Journal of Vegetation Science, 2021, 32, e13022.	2.2	7
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102	Soil microbiome predictability increases with spatial and taxonomic scale. Nature Ecology and Evolution, 2021, 5, 747-756.	7.8	23
103	Editorial: Forest Rhizosphere Interactions: Cascading Consequences for Ecosystem-Level Carbon and Nutrient Cycling. Frontiers in Forests and Global Change, 2021, 4, .	2.3	2
104	Assessing the dual-mycorrhizal status of a widespread tree species as a model for studies on stand biogeochemistry. Mycorrhiza, 2021, 31, 313-324.	2.8	13
105	Mature Andean forests as globally important carbon sinks and future carbon refuges. Nature Communications, 2021, 12, 2138.	12.8	26
106	Long- and short-read metabarcoding technologies reveal similar spatiotemporal structures in fungal communities. Molecular Ecology Resources, 2021, 21, 1833-1849.	4.8	16
107	Synthesizing tree biodiversity data to understand global patterns and processes of vegetation. Journal of Vegetation Science, 2021, 32, e13021.	2.2	17
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109	Macroecological diversification and convergence in a clade of keystone symbionts. FEMS Microbiology Ecology, 2021, 97, .	2.7	14
110	Tree Canopies Reflect Mycorrhizal Composition. Geophysical Research Letters, 2021, 48, e2021GL092764.	4.0	21
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114	Spheres of Influence: Host Tree Proximity and Soil Chemistry Shape rRNA, but Not DNA, Communities of Symbiotic and Free-Living Soil Fungi in a Mixed Hardwood-Conifer Forest. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	3
115	Climate-driven divergence in plant-microbiome interactions generates range-wide variation in bud break phenology. <i>Communications Biology</i> , 2021, 4, 748.	4.4	23
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117	Nitrogen and phosphorus fertilization consistently favor pathogenic over mutualistic fungi in grassland soils. <i>Nature Communications</i> , 2021, 12, 3484.	12.8	116
118	Thermodynamics shapes the biogeography of propionate-oxidizing syntrophs in paddy field soils. <i>Environmental Microbiology Reports</i> , 2021, 13, 684-695.	2.4	3
119	Forest management to increase carbon sequestration in boreal <i>Pinus sylvestris</i> forests. <i>Plant and Soil</i> , 2021, 466, 165-178.	3.7	22
120	Global homogenization of the structure and function in the soil microbiome of urban greenspaces. <i>Science Advances</i> , 2021, 7, .	10.3	83
121	Ericoid mycorrhizal shrubs alter the relationship between tree mycorrhizal dominance and soil carbon and nitrogen. <i>Journal of Ecology</i> , 2021, 109, 3524-3540.	4.0	19
122	The effect of water stress on net primary productivity in northwest China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 65885-65898.	5.3	4
123	Shifts in the Abundances of Saprotrophic and Ectomycorrhizal Fungi With Altered Leaf Litter Inputs. <i>Frontiers in Plant Science</i> , 2021, 12, 682142.	3.6	16
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125	The methylome of the model arbuscular mycorrhizal fungus, <i>Rhizophagus irregularis</i> , shares characteristics with early diverging fungi and <i>Dikarya</i> . <i>Communications Biology</i> , 2021, 4, 901.	4.4	17
126	Mycorrhizal science outreach: Scope of action and available resources in the face of global change. <i>Plants People Planet</i> , 2021, 3, 506-522.	3.3	3
127	Generation of unequal nuclear genotype proportions in <i>Rhizophagus irregularis</i> progeny causes allelic imbalance in gene transcription. <i>New Phytologist</i> , 2021, 231, 1984-2001.	7.3	10
128	Nitrogen-fixing trees increase soil nitrous oxide emissions: a meta-analysis. <i>Ecology</i> , 2021, 102, e03415.	3.2	16
129	Symbiosis and the Anthropocene. <i>Symbiosis</i> , 2021, 84, 239-270.	2.3	7
130	Evolution of the Mode of Nutrition in Symbiotic and Saprotrophic Fungi in Forest Ecosystems. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2021, 52, 385-404.	8.3	26

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132	A Data-Driven Global Soil Heterotrophic Respiration Dataset and the Drivers of Its Inter-Annual Variability. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006918.	4.9	18
133	Ecological impacts of fungal wood decay types: A review of current knowledge and future research directions. <i>Ecological Research</i> , 2021, 36, 910-931.	1.5	31
134	Novel Microdialysis Technique Reveals a Dramatic Shift in Metabolite Secretion during the Early Stages of the Interaction between the Ectomycorrhizal Fungus <i>Pisolithus microcarpus</i> and Its Host <i>Eucalyptus grandis</i> . <i>Microorganisms</i> , 2021, 9, 1817.	3.6	6
135	Growth responses of ectomycorrhizal and arbuscular mycorrhizal seedlings to low soil nitrogen availability in a tropical montane forest. <i>Functional Ecology</i> , 2022, 36, 107-119.	3.6	7
136	Resistance and resilience of soil prokaryotic communities in response to prolonged drought in a tropical forest. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	2.7	2
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138	Are Terrestrial Biological Invasions Different in the Tropics?. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2021, 52, .	8.3	15
139	Soil temperature limits nitrogen fixation, photosynthesis, and growth in a boreal actinorhizal shrub. <i>Plant and Soil</i> , 2021, 468, 411-421.	3.7	3
140	The significance of tree-tree interactions for forest ecosystem functioning. <i>Basic and Applied Ecology</i> , 2021, 55, 33-52.	2.7	38
142	Mycorrhizal Distributions Impact Global Patterns of Carbon and Nutrient Cycling. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094514.	4.0	14
143	Colonization status and community structure of arbuscular mycorrhizal fungi in the coniferous tree, <i>Cryptomeria japonica</i> , with special reference to root orders. <i>Plant and Soil</i> , 2021, 468, 423-438.	3.7	15
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145	Spatiotemporal Monitoring of Soil CO ₂ Efflux in a Subtropical Forest during the Dry Season Based on Field Observations and Remote Sensing Imagery. <i>Remote Sensing</i> , 2021, 13, 3481.	4.0	4
146	Keep your friends close: Host compartmentalisation of microbial communities facilitates decoupling from effects of habitat fragmentation. <i>Ecology Letters</i> , 2021, 24, 2674-2686.	6.4	7
147	Tree growth response to soil nutrients and neighborhood crowding varies between mycorrhizal types in an old-growth temperate forest. <i>Oecologia</i> , 2021, 197, 523-535.	2.0	5
148	Genetic diversity reduces competition and increases tree growth on a Norway spruce (<i>Picea abies</i> [L.] Tj ETQq0 0 0 rgBT /Overlock 10 T	3.2	8
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150	Soil phosphorus availability affects diazotroph communities during vegetation succession in lowland subtropical forests. <i>Applied Soil Ecology</i> , 2021, 166, 104009.	4.3	11
151	Optimizing stand density for climate-smart forestry: A way forward towards resilient forests with enhanced carbon storage under extreme climate events. <i>Soil Biology and Biochemistry</i> , 2021, 162, 108396.	8.8	11
152	Fungal community of forest soil: Diversity, functions, and services. , 2021, , 231-255.		2
153	Spatio-temporal soil nutrient dynamics and plant species diversity in selected Sal forests of Ranchi, Eastern India. <i>Vegetos</i> , 2021, 34, 235-248.	1.5	3
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155	Conservation of Edible Ectomycorrhizal Mushrooms: Understanding of the ECM Fungi Mediated Carbon and Nitrogen Movement within Forest Ecosystems. , 0, , .		3
156	Bioindicators of Soil Quality in Mixed Plantations of Eucalyptus and Leguminous Trees. , 2020, , 173-192.		3
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159	Forest Carbon Stock and Fluxes: Distribution, Biogeochemical Cycles, and Measurement Techniques. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2020, , 1-16.	0.1	3
160	Forest Carbon Stock and Fluxes: Distribution, Biogeochemical Cycles, and Measurement Techniques. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2021, , 361-376.	0.1	5
161	Accelerating the sustainable development goals through microbiology: some efforts and opportunities. <i>Access Microbiology</i> , 2020, 2, acmi000112.	0.5	16
163	Tree communities and soil properties influence fungal community assembly in neotropical forests. <i>Biotropica</i> , 2020, 52, 444-456.	1.6	4
164	SAR â€“ OPTICAL REMOTE SENSING BASED FOREST COVER AND GREENNESS ESTI-MATION OVER INDIA. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, IV-5/W2, 49-56.	0.0	12
166	Mycorrhizal types influence island biogeography of plants. <i>Communications Biology</i> , 2021, 4, 1128.	4.4	12
167	Mycorrhizal associations of tree species influence soil nitrogen dynamics via effects on soil acidâ€“base chemistry. <i>Global Ecology and Biogeography</i> , 2022, 31, 168-182.	5.8	15
168	Plant Trait Assembly in Species-Rich Forests at Varying Elevations in the Northwest Andes of Colombia. <i>Land</i> , 2021, 10, 1057.	2.9	3
169	Ectomycorrhizal root tips harbor distinctive fungal associates along a soil nitrogen gradient. <i>Fungal Ecology</i> , 2021, 54, 101111.	1.6	5
170	Large contribution of recent photosynthate to soil respiration in tropical dipterocarp forest revealed by girdling. <i>Journal of Ecology</i> , 0, , .	4.0	2

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