## Francois Buscot

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3527383/publications.pdf

Version: 2024-02-01

249 papers 18,036 citations

69 h-index 120 g-index

258 all docs

258 docs citations

times ranked

258

17678 citing authors

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Convergent losses of decay mechanisms and rapid turnover of symbiosis genes in mycorrhizal mutualists. Nature Genetics, 2015, 47, 410-415.  | 21.4 | 870       |
| 2  | Bottom-up effects of plant diversity on multitrophic interactions in a biodiversity experiment. Nature, 2010, 468, 553-556.   | 27.8 | 786       |
| 3  | Choosing and using diversity indices: insights for ecological applications from the German Biodiversity Exploratories. Ecology and Evolution, 2014, 4, 3514-3524.   | 1.9  | 697       |
| 4  | Implementing large-scale and long-term functional biodiversity research: The Biodiversity Exploratories. Basic and Applied Ecology, 2010, 11, 473-485.  | 2.7  | 649       |
| 5  | Biodiversity at multiple trophic levels is needed for ecosystem multifunctionality. Nature, 2016, 536, 456-459.   | 27.8 | 526       |
| 6  | Mineral vs. Organic Amendments: Microbial Community Structure, Activity and Abundance of Agriculturally Relevant Microbes Are Driven by Long-Term Fertilization Strategies. Frontiers in Microbiology, 2016, 7, 1446. | 3.5  | 462       |
| 7  | Impacts of species richness on productivity in a large-scale subtropical forest experiment. Science, 2018, 362, 80-83.  | 12.6 | 433       |
| 8  | Land-use intensification causes multitrophic homogenization of grassland communities. Nature, 2016, 540, 266-269.   | 27.8 | 404       |
| 9  | A quantitative index of land-use intensity in grasslands: Integrating mowing, grazing and fertilization.<br>Basic and Applied Ecology, 2012, 13, 207-220.   | 2.7  | 325       |
| 10 | Horizon-Specific Bacterial Community Composition of German Grassland Soils, as Revealed by Pyrosequencing-Based Analysis of 16S rRNA Genes. Applied and Environmental Microbiology, 2010, 76, 6751-6759.              | 3.1  | 312       |
| 11 | Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: Patterns, mechanisms, and open questions. Basic and Applied Ecology, 2017, 23, 1-73.   | 2.7  | 307       |
| 12 | Life in leaf litter: novel insights into community dynamics of bacteria and fungi during litter decomposition. Molecular Ecology, 2016, 25, 4059-4074.  | 3.9  | 297       |
| 13 | Interannual variation in land-use intensity enhances grassland multidiversity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 308-313.                                   | 7.1  | 243       |
| 14 | Designing forest biodiversity experiments: general considerations illustrated by a new large experiment in subtropical <scp>C</scp> hina. Methods in Ecology and Evolution, 2014, 5, 74-89.                           | 5.2  | 232       |
| 15 | Community assembly during secondary forest succession in a Chinese subtropical forest. Ecological Monographs, 2011, 81, 25-41.  | 5.4  | 222       |
| 16 | Differences in the species composition of arbuscular mycorrhizal fungi in spore, root and soil communities in a grassland ecosystem. Environmental Microbiology, 2007, 9, 1930-1938.                                  | 3.8  | 218       |
| 17 | Blind spots in global soil biodiversity and ecosystem function research. Nature Communications, 2020, 11, 3870.   | 12.8 | 192       |
| 18 | The impact of evenâ€aged and unevenâ€aged forest management on regional biodiversity of multiple taxa in European beech forests. Journal of Applied Ecology, 2018, 55, 267-278.                                       | 4.0  | 188       |

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|----|--|-------------|-----------|
| 19 | Multiple forest attributes underpin the supply of multiple ecosystem services. Nature Communications, 2018, 9, 4839.   | 12.8        | 182       |
| 20 | Interacting effects of fertilization, mowing and grazing on plant species diversity of 1500 grasslands in Germany differ between regions. Basic and Applied Ecology, 2013, 14, 126-136.              | 2.7         | 177       |
| 21 | Biodiversity across trophic levels drives multifunctionality in highly diverse forests. Nature Communications, 2018, 9, 2989.  | 12.8        | 169       |
| 22 | Land-use intensity alters networks between biodiversity, ecosystem functions, and services. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28140-28149. | 7.1         | 164       |
| 23 | Effects of longâ€term differential fertilization on eukaryotic microbial communities in an arable soil: a multiple barcoding approach. Molecular Ecology, 2014, 23, 3341-3355.                       | 3.9         | 163       |
| 24 | Soilâ€carbon preservation through habitat constraints and biological limitations on decomposer activity. Journal of Plant Nutrition and Soil Science, 2008, 171, 27-35.                              | 1.9         | 156       |
| 25 | Molecular diversity of arbuscular mycorrhizal fungi in relation to soil chemical properties and heavy metal contamination. Environmental Pollution, 2010, 158, 2757-2765.                            | 7.5         | 152       |
| 26 | Wood decay rates of 13 temperate tree species in relation to wood properties, enzyme activities and organismic diversities. Forest Ecology and Management, 2017, 391, 86-95.                         | 3.2         | 151       |
| 27 | Tracking, targeting, and conserving soil biodiversity. Science, 2021, 371, 239-241.  | 12.6        | 151       |
| 28 | Resource Partitioning between Bacteria, Fungi, and Protists in the Detritusphere of an Agricultural Soil. Frontiers in Microbiology, 2016, 7, 1524.  | <b>3.</b> 5 | 143       |
| 29 | General Relationships between Abiotic Soil Properties and Soil Biota across Spatial Scales and Different Land-Use Types. PLoS ONE, 2012, 7, e43292.  | 2.5         | 142       |
| 30 | Linking molecular deadwood-inhabiting fungal diversity and community dynamics to ecosystem functions and processes in Central European forests. Fungal Diversity, 2016, 77, 367-379.                 | 12.3        | 140       |
| 31 | Diversity of laccase genes from basidiomycetes in a forest soil. Soil Biology and Biochemistry, 2004, 36, 1025-1036.   | 8.8         | 136       |
| 32 | Forest Management Type Influences Diversity and Community Composition of Soil Fungi across Temperate Forest Ecosystems. Frontiers in Microbiology, 2015, 6, 1300.                                    | <b>3.</b> 5 | 136       |
| 33 | Host plant genusâ€level diversity is the best predictor of ectomycorrhizal fungal diversity in a Chinese subtropical forest. Molecular Ecology, 2013, 22, 3403-3414.                                 | 3.9         | 133       |
| 34 | Network Analysis Reveals Ecological Links between N-Fixing Bacteria and Wood-Decaying Fungi. PLoS ONE, 2014, 9, e88141.  | 2.5         | 129       |
| 35 | Nitrogen supply affects arbuscular mycorrhizal colonization of Artemisia vulgaris in a phosphateâ€polluted field site. New Phytologist, 2005, 166, 981-992.  | 7.3         | 117       |
| 36 | Locally rare species influence grassland ecosystem multifunctionality. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150269.                                  | 4.0         | 117       |

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|----|---|-----|-----------|
| 37 | Protein-SIP enables time-resolved analysis of the carbon flux in a sulfate-reducing, benzene-degrading microbial consortium. ISME Journal, 2012, 6, 2291-2301.  | 9.8 | 109       |
| 38 | Community assembly of ectomycorrhizal fungi along a subtropical secondary forest succession. New Phytologist, 2015, 205, 771-785.   | 7.3 | 107       |
| 39 | Diversity of bacterial laccase-like multicopper oxidase genes in forest and grassland Cambisol soil samples. Soil Biology and Biochemistry, 2008, 40, 638-648.  | 8.8 | 104       |
| 40 | High plant species richness indicates management-related disturbances rather than the conservation status of forests. Basic and Applied Ecology, 2013, 14, 496-505.   | 2.7 | 102       |
| 41 | On the combined effect of soil fertility and topography on tree growth in subtropical forest ecosystems—a study from SE China. Journal of Plant Ecology, 2017, 10, 111-127.   | 2.3 | 102       |
| 42 | <i>Streptomyces</i> -Induced Resistance Against Oak Powdery Mildew Involves Host Plant Responses in Defense, Photosynthesis, and Secondary Metabolism Pathways. Molecular Plant-Microbe Interactions, 2014, 27, 891-900.  | 2.6 | 101       |
| 43 | A pyrosequencing insight into sprawling bacterial diversity and community dynamics in decaying deadwood logs of Fagus sylvatica and Picea abies. Scientific Reports, 2015, 5, 9456.   | 3.3 | 101       |
| 44 | Recent advances in exploring physiology and biodiversity of ectomycorrhizas highlight the functioning of these symbioses in ecosystems. FEMS Microbiology Reviews, 2000, 24, 601-614.   | 8.6 | 98        |
| 45 | OakContig <scp>DF</scp> 159.1, a reference library for studying differential gene expression in <i>Quercus robur</i> during controlled biotic interactions: use for quantitative transcriptomic profiling of oak roots in ectomycorrhizal symbiosis. New Phytologist, 2013, 199, 529-540. | 7.3 | 97        |
| 46 | Diversity Promotes Temporal Stability across Levels of Ecosystem Organization in Experimental Grasslands. PLoS ONE, 2010, 5, e13382.  | 2.5 | 95        |
| 47 | pH as a Driver for Ammonia-Oxidizing Archaea in Forest Soils. Microbial Ecology, 2015, 69, 879-883.   | 2.8 | 95        |
| 48 | A multitrophic perspective on biodiversity–ecosystem functioning research. Advances in Ecological Research, 2019, 61, 1-54.   | 2.7 | 95        |
| 49 | Patchiness and Spatial Distribution of Laccase Genes of Ectomycorrhizal, Saprotrophic, and Unknown Basidiomycetes in the Upper Horizons of a Mixed Forest Cambisol. Microbial Ecology, 2005, 50, 570-579.   | 2.8 | 94        |
| 50 | Differences in Soil Fungal Communities between European Beech (Fagus sylvatica L.) Dominated Forests Are Related to Soil and Understory Vegetation. PLoS ONE, 2012, 7, e47500.  | 2.5 | 93        |
| 51 | Specialisation and diversity of multiple trophic groups are promoted by different forest features. Ecology Letters, 2019, 22, 170-180.  | 6.4 | 92        |
| 52 | Molecular evidence strongly supports deadwood-inhabiting fungi exhibiting unexpected tree species preferences in temperate forests. ISME Journal, 2018, 12, 289-295.  | 9.8 | 90        |
| 53 | Community structure of arbuscular mycorrhizal fungi associated to Veronica rechingeri at the Anguran zinc and lead mining region. Environmental Pollution, 2008, 156, 1277-1283.  | 7.5 | 89        |
| 54 | Laccases: toward disentangling their diversity and functions in relation to soil organic matter cycling. Biology and Fertility of Soils, 2010, 46, 215-225.   | 4.3 | 87        |

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|----|--|------|------------|
| 55 | Combining nested PCR and restriction digest of the internal transcribed spacer region to characterize arbuscular mycorrhizal fungi on roots from the field. Mycorrhiza, 2003, 13, 191-198.                                   | 2.8  | 86         |
| 56 | Specific bottom–up effects of arbuscular mycorrhizal fungi across a plant–herbivore–parasitoid system. Oecologia, 2009, 160, 267-277.  | 2.0  | 86         |
| 57 | Investigating the consequences of climate change under different landâ€use regimes: a novel experimental infrastructure. Ecosphere, 2019, 10, e02635.  | 2.2  | 85         |
| 58 | Divergent habitat filtering of root and soil fungal communities in temperate beech forests. Scientific Reports, 2016, 6, 31439.  | 3.3  | 84         |
| 59 | Characterization and identification of black alder ectomycorrhizas by PCR/RFLP analyses of the rDNA internal transcribed spacer (ITS). New Phytologist, 1997, 137, 357-369.  | 7.3  | 82         |
| 60 | Taxonomic and phylogenetic contributions to fungi associated with the invasive weed Chromolaena odorata (Siam weed). Fungal Diversity, 2020, 101, 1-175.   | 12.3 | 82         |
| 61 | Contrasting responses of above- and belowground diversity to multiple components of land-use intensity. Nature Communications, 2021, 12, 3918.   | 12.8 | 81         |
| 62 | Shifts in physiological capabilities of the microbiota during the decomposition of leaf litter in a black alder ( Alnus glutinosa (Gaertn.) L.) forest. Soil Biology and Biochemistry, 2001, 33, 921-930.                    | 8.8  | 80         |
| 63 | Functionally and phylogenetically diverse plant communities key to soil biota. Ecology, 2013, 94, 1878-1885.   | 3.2  | 80         |
| 64 | Soil and tree species traits both shape soil microbial communities during early growth of Chinese subtropical forests. Soil Biology and Biochemistry, 2016, 96, 180-190.   | 8.8  | 80         |
| 65 | Towards a universally adaptable method for quantitative extraction of high-purity nucleic acids from soil. Journal of Microbiological Methods, 2008, 75, 19-24.  | 1.6  | 77         |
| 66 | Insights into organohalide respiration and the versatile catabolism of <scp><i>Sc/i&gt;</i></scp> <i>ulfurospirillum multivorans</i> physiological studies. Environmental Microbiology, 2014, 16, 3562-3580.                 | 3.8  | 76         |
| 67 | Grassland management intensification weakens the associations among the diversities of multiple plant and animal taxa. Ecology, 2015, 96, 1492-1501.   | 3.2  | <b>7</b> 5 |
| 68 | Oribatid Mites as Potential Vectors for Soil Microfungi: Study of Mite-Associated Fungal Species. Microbial Ecology, 2005, 50, 518-528.  | 2.8  | 74         |
| 69 | Impacts of earthworms and arbuscular mycorrhizal fungi (Glomus intraradices) on plant performance are not interrelated. Soil Biology and Biochemistry, 2009, 41, 561-567.  | 8.8  | 74         |
| 70 | Impact of the plant community composition on labile soil organic carbon, soil microbial activity and community structure in semi-natural grassland ecosystems of different productivity. Plant and Soil, 2012, 352, 253-265. | 3.7  | 74         |
| 71 | Fine Spatial Scale Variation of Soil Microbial Communities under European Beech and Norway Spruce. Frontiers in Microbiology, 2016, 7, 2067.   | 3.5  | 74         |
| 72 | Genome sequences of two dehalogenation specialists <i>- Dehalococcoides mccarty i / i &gt; strains BTF08 and DCMB5 enriched from the highly polluted Bitterfeld region. FEMS Microbiology Letters, 2013, 343, 101-104.</i>   | 1.8  | 73         |

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|----|--|-------------------|--------------|
| 73 | DNA polymorphism in morels: PCR/RFLP analysis of the ribosomal DNA spacers and microsatellite-primed PCR. Mycological Research, 1996, 100, 63-71.  | 2.5               | 72           |
| 74 | Species composition of arbuscular mycorrhizal fungi in two mountain meadows with differing management types and levels of plant biodiversity. Biology and Fertility of Soils, 2006, 42, 286-298.   | 4.3               | 72           |
| 75 | TaqMan Real-Time PCR Assays To Assess Arbuscular Mycorrhizal Responses to Field Manipulation of Grassland Biodiversity: Effects of Soil Characteristics, Plant Species Richness, and Functional Traits. Applied and Environmental Microbiology, 2010, 76, 3765-3775.                           | 3.1               | 72           |
| 76 | A molecular method to evaluate basidiomycete laccase gene expression in forest soils. Geoderma, 2005, 128, 18-27.  | 5.1               | 71           |
| 77 | Diversity of laccase-like multicopper oxidase genes in Morchellaceae: identification of genes potentially involved in extracellular activities related to plant litter decay. FEMS Microbiology Ecology, 2007, 61, 153-163.  | 2.7               | 65           |
| 78 | Uncoupling of microbial community structure and function in decomposing litter across beech forest ecosystems in Central Europe. Scientific Reports, 2014, 4, 7014.  | 3.3               | 65           |
| 79 | Influence of Different Forest System Management Practices on Leaf Litter Decomposition Rates,<br>Nutrient Dynamics and the Activity of Ligninolytic Enzymes: A Case Study from Central European<br>Forests. PLoS ONE, 2014, 9, e93700.   | 2.5               | 65           |
| 80 | Characterization and spatial distribution of ectomycorrhizas colonizing aspen clones released in an experimental field. Mycorrhiza, 2004, 14, 295-306.   | 2.8               | 64           |
| 81 | Spatial Distribution of Fungal Communities in an Arable Soil. PLoS ONE, 2016, 11, e0148130.  | 2.5               | 63           |
| 82 | Land-Use Intensity Rather Than Plant Functional Identity Shapes Bacterial and Fungal Rhizosphere Communities. Frontiers in Microbiology, 2018, 9, 2711.  | 3.5               | 62           |
| 83 | Mycorrhizal colonization of transgenic aspen in a field trial. Planta, 2002, 214, 653-660.   | 3.2               | 61           |
| 84 | Manipulation of the onset of ectomycorrhiza formation by indole-3-acetic acid, activated charcoal or relative humidity in the association between oak microcuttings and Piloderma croceum: influence on plant development and photosynthesis. Journal of Plant Physiology, 2004, 161, 509-517. | 3.5               | 61           |
| 85 | Changes within a single land-use category alter microbial diversity and community structure:<br>Molecular evidence from wood-inhabiting fungi in forest ecosystems. Journal of Environmental<br>Management, 2014, 139, 109-119.  | 7.8               | 61           |
| 86 | Diversity of and yeasts (Basidiomycota) inhabiting arbuscular mycorrhizal roots or spores. FEMS Yeast Research, 2004, 4, 597-603.  | 2.3               | 60           |
| 87 | Effects of resource availability and quality on the structure of the micro-food web of an arable soil across depth. Soil Biology and Biochemistry, 2012, 50, 1-11.   | 8.8               | 60           |
| 88 | Diversity of arbuscular mycorrhizal fungi in grassland spontaneously developed on area polluted by a fertilizer plant. Environmental Pollution, 2005, 135, 255-266.  | 7.5               | 57           |
| 89 | Soil nematodes associated with the mammal pathogenic fungal genus Malassezia (Basidiomycota:) Tj ETQq $1\ 1\ 0$  | 1.784314 r<br>4.3 | gBT /Overloc |
| 90 | Effects of Forest Management Practices in Temperate Beech Forests on Bacterial and Fungal Communities Involved in Leaf Litter Degradation. Microbial Ecology, 2015, 69, 905-913.   | 2.8               | 56           |

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|-----|---|-----|-----------|
| 91  | Molecular fungal community and its decomposition activity in sapwood and heartwood of 13 temperate European tree species. PLoS ONE, 2019, 14, e0212120.   | 2.5 | 55        |
| 92  | Forest Age and Plant Species Composition Determine the Soil Fungal Community Composition in a Chinese Subtropical Forest. PLoS ONE, 2013, 8, e66829.  | 2.5 | 53        |
| 93  | Short-term bioavailability of carbon in soil organic matter fractions of different particle sizes and densities in grassland ecosystems. Science of the Total Environment, 2014, 497-498, 29-37.  | 8.0 | 53        |
| 94  | A gnotobiotic culture system with oak microcuttings to study specific effects of mycobionts on plant morphology before, and in the early phase of, ectomycorrhiza formation by Paxillus involutus and Piloderma croceum. New Phytologist, 1998, 138, 203-212. | 7.3 | 52        |
| 95  | Metal uptake and detoxification mechanisms in Erica andevalensis growing in a pyrite mine tailing. Environmental and Experimental Botany, 2007, 61, 117-123.  | 4.2 | 52        |
| 96  | Arbuscular mycorrhizal abundance in contaminated soils around a zinc and lead deposit. European Journal of Soil Biology, 2008, 44, 381-391.   | 3.2 | 51        |
| 97  | Temporal changes in diversity and expression patterns of fungal laccase genes within the organic horizon of a brown forest soil. Soil Biology and Biochemistry, 2009, 41, 1380-1389.  | 8.8 | 51        |
| 98  | Growing Research Networks on Mycorrhizae for Mutual Benefits. Trends in Plant Science, 2018, 23, 975-984.   | 8.8 | 51        |
| 99  | The arbuscular mycorrhizal <i>Paraglomus majewskii</i> sp. nov. represents a distinct basal lineage in Glomeromycota. Mycologia, 2012, 104, 148-156.  | 1.9 | 50        |
| 100 | The oak gene expression atlas: insights into Fagaceae genome evolution and the discovery of genes regulated during bud dormancy release. BMC Genomics, 2015, 16, 112.   | 2.8 | 49        |
| 101 | Mycorrhiza in tree diversity–ecosystem function relationships: conceptual framework and experimental implementation. Ecosphere, 2018, 9, e02226.  | 2.2 | 49        |
| 102 | Are correlations between deadwood fungal community structure, wood physico-chemical properties and lignin-modifying enzymes stable across different geographical regions?. Fungal Ecology, 2016, 22, 98-105.  | 1.6 | 47        |
| 103 | Rationalizing molecular analysis of field-collected roots for assessing diversity of arbuscular mycorrhizal fungi: to pool, or not to pool, that is the question. Mycorrhiza, 2006, 16, 525-531.  | 2.8 | 46        |
| 104 | Implication of evolution and diversity in arbuscular and ectomycorrhizal symbioses. Journal of Plant Physiology, 2015, 172, 55-61.  | 3.5 | 46        |
| 105 | Correlations between the composition of modular fungal communities and litter decomposition-associated ecosystem functions. Fungal Ecology, 2016, 22, 106-114.  | 1.6 | 46        |
| 106 | Bacteria inhabiting deadwood of 13 tree species are heterogeneously distributed between sapwood and heartwood. Environmental Microbiology, 2018, 20, 3744-3756.   | 3.8 | 44        |
| 107 | Morphological and anatomical characterisation of black alder Alnus glutinosa (L.) Gaertn. ectomycorrhizas. Mycorrhiza, 1997, 7, 201-216.  | 2.8 | 43        |
| 108 | Determinants of Deadwood-Inhabiting Fungal Communities in Temperate Forests: Molecular Evidence From a Large Scale Deadwood Decomposition Experiment. Frontiers in Microbiology, 2018, 9, 2120.   | 3.5 | 43        |

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|-----|--|------|-----------|
| 109 | Relationships Between Soil Microorganisms, Plant Communities, and Soil Characteristics in Chinese Subtropical Forests. Ecosystems, 2012, 15, 624-636.  | 3.4  | 42        |
| 110 | Dynamics of Soil Bacterial Communities Over a Vegetation Season Relate to Both Soil Nutrient Status and Plant Growth Phenology. Microbial Ecology, 2018, 75, 216-227.  | 2.8  | 42        |
| 111 | Toward a methodical framework for comprehensively assessing forest multifunctionality. Ecology and Evolution, 2017, 7, 10652-10674.  | 1.9  | 41        |
| 112 | Above- and belowground biodiversity jointly tighten the P cycle in agricultural grasslands. Nature Communications, 2021, 12, 4431.   | 12.8 | 40        |
| 113 | Detection and quantification of a mycorrhization helper bacterium and a mycorrhizal fungus in plant-soil microcosms at different levels of complexity. BMC Microbiology, 2013, 13, 205.                                      | 3.3  | 39        |
| 114 | Belowground top-down and aboveground bottom-up effects structure multitrophic community relationships in a biodiverse forest. Scientific Reports, 2017, 7, 4222.   | 3.3  | 38        |
| 115 | Can multiâ€taxa diversity in European beech forest landscapes be increased by combining different management systems?. Journal of Applied Ecology, 2020, 57, 1363-1375.  | 4.0  | 38        |
| 116 | Land use and host neighbor identity effects on arbuscular mycorrhizal fungal community composition in focal plant rhizosphere. Biodiversity and Conservation, 2013, 22, 2193-2205.   | 2.6  | 37        |
| 117 | Multitrophic diversity in a biodiverse forest is highly nonlinear across spatial scales. Nature Communications, 2015, 6, 10169.  | 12.8 | 37        |
| 118 | Carbon input and crop-related changes in microbial biomarker levels strongly affect the turnover and composition of soil organic carbon. Soil Biology and Biochemistry, 2015, 85, 39-50.                                     | 8.8  | 37        |
| 119 | Leaf litter diversity alters microbial activity, microbial abundances, and nutrient cycling in a subtropical forest ecosystem. Biogeochemistry, 2017, 134, 163-181.  | 3.5  | 36        |
| 120 | Preservation of nucleic acids by freeze-drying for next generation sequencing analyses of soil microbial communities. Journal of Plant Ecology, 2017, 10, 81-90.   | 2.3  | 36        |
| 121 | Host Phylogeny Is a Major Determinant of Fagaceae-Associated Ectomycorrhizal Fungal Community Assembly at a Regional Scale. Frontiers in Microbiology, 2018, 9, 2409.  | 3.5  | 36        |
| 122 | Wood decomposition is more strongly controlled by temperature than by tree species and decomposer diversity in highly species rich subtropical forests. Oikos, 2019, 128, 701-715.   | 2.7  | 36        |
| 123 | Interactions between soil properties, agricultural management and cultivar type drive structural and functional adaptations of the wheat rhizosphere microbiome to drought. Environmental Microbiology, 2021, 23, 5866-5882. | 3.8  | 36        |
| 124 | Characterization of Unexplored Deadwood Mycobiome in Highly Diverse Subtropical Forests Using Culture-independent Molecular Technique. Frontiers in Microbiology, 2017, 8, 574.  | 3.5  | 35        |
| 125 | The association of Morchella rotunda (Pers.) Boudier with roots of Picea abies (L.) Karst. New Phytologist, 1990, 116, 425-430.  | 7.3  | 33        |
| 126 | Interactive effects of mycorrhizae and a root hemiparasite on plant community productivity and diversity. Oecologia, 2009, 159, 191-205.   | 2.0  | 33        |

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|-----|--|------|-----------|
| 127 | Tree species richness and fungi in freshly fallen leaf litter: Unique patterns of fungal species composition and their implications for enzymatic decomposition. Soil Biology and Biochemistry, 2018, 120-126.                 | 8.8  | 33        |
| 128 | The Dark Side of Animal Phenology. Trends in Ecology and Evolution, 2018, 33, 898-901.   | 8.7  | 33        |
| 129 | Association between living roots and ascocarps of Morchella rotunda. Transactions of the British Mycological Society, 1987, 89, 249-252.   | 0.6  | 32        |
| 130 | Resource Type and Availability Regulate Fungal Communities Along Arable Soil Profiles. Microbial Ecology, 2015, 70, 390-399.   | 2.8  | 32        |
| 131 | Largeâ€scale drivers of relationships between soil microbial properties and organic carbon across Europe. Global Ecology and Biogeography, 2021, 30, 2070-2083.  | 5.8  | 32        |
| 132 | Back to the Future: Decomposability of a Biobased and Biodegradable Plastic in Field Soil Environments and Its Microbiome under Ambient and Future Climates. Environmental Science & Emp; Technology, 2021, 55, 12337-12351.   | 10.0 | 32        |
| 133 | Identification of premycorrhizaâ€related plant genes in the association between Quercus robur and Piloderma croceum. New Phytologist, 2004, 163, 149-157.  | 7.3  | 31        |
| 134 | What Are Soils?., 2005,, 3-17.   |      | 31        |
| 135 | Glomus drummondii and G. walkeri, two new species of arbuscular mycorrhizal fungi<br>(Glomeromycota). Mycological Research, 2006, 110, 555-566.  | 2.5  | 31        |
| 136 | Glomus africanumandG. iranicum, two new species of arbuscular mycorrhizal fungi (Glomeromycota). Mycologia, 2010, 102, 1450-1462.  | 1.9  | 31        |
| 137 | Arbuscular mycorrhizas in phosphate-polluted soil: interrelations between root colonization and nitrogen. Plant and Soil, 2011, 343, 379-392.  | 3.7  | 31        |
| 138 | Comparing fungal richness and community composition in coarse woody debris in Central European beech forests under three types of management. Mycological Progress, 2014, 13, 959-964.   | 1.4  | 31        |
| 139 | Fungal guilds and soil functionality respond to tree community traits rather than to tree diversity in European forests. Molecular Ecology, 2021, 30, 572-591.   | 3.9  | 31        |
| 140 | Cross talks at the morphogenetic, physiological and gene regulation levels between the mycobiont Piloderma croceum and oak microcuttings (Quercus robur) during formation of ectomycorrhizas. Phytochemistry, 2007, 68, 52-67. | 2.9  | 29        |
| 141 | Diversity of the ectomycorrhiza community at a uranium mining heap. Biology and Fertility of Soils, 2005, 41, 439-446.   | 4.3  | 28        |
| 142 | Transcriptional changes in two types of pre-mycorrhizal roots and in ectomycorrhizas of oak microcuttings inoculated with Piloderma croceum. Planta, 2006, 225, 331-340.   | 3.2  | 28        |
| 143 | Large scale transcriptome analysis reveals interplay between development of forest trees and a beneficial mycorrhiza helper bacterium. BMC Genomics, 2015, 16, 658.  | 2.8  | 28        |
| 144 | Archaeal Diversity and CO <sub>2</sub> Fixers in Carbonate-/Siliciclastic-Rock Groundwater Ecosystems. Archaea, 2017, 2017, 1-13.  | 2.3  | 28        |

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|-----|---|-------------|-----------|
| 145 | Experimental Evidence of Functional Group-Dependent Effects of Tree Diversity on Soil Fungi in Subtropical Forests. Frontiers in Microbiology, 2018, 9, 2312.   | 3.5         | 28        |
| 146 | Ectomycorrhizal types and endobacteria associated with ectomycorrhizas of Morchella elata (Fr.) Boudier with Picea abies (L.) Karst. Mycorrhiza, 1994, 4, 223-232.  | 2.8         | 27        |
| 147 | Characteristics and energetic strategies of the rhizosphere in ecosystems of the Bornhöved Lake district. Applied Soil Ecology, 2000, 15, 201-210.  | 4.3         | 27        |
| 148 | Actinobacteria may influence white truffle (Tuber magnatum Pico) nutrition, ascocarp degradation and interactions with other soil fungi. Fungal Ecology, 2013, 6, 527-538.  | 1.6         | 27        |
| 149 | Septoglomus fuscum and S. furcatum, two new species of arbuscular mycorrhizal fungi (Glomeromycota). Mycologia, 2013, 105, 670-680.   | 1.9         | 27        |
| 150 | Endogenous rhythmic growth in oak trees is regulated by internal clocks rather than resource availability. Journal of Experimental Botany, 2015, 66, 7113-7127.   | 4.8         | 27        |
| 151 | Tree species, tree genotypes and tree genotypic diversity levels affect microbe-mediated soil ecosystem functions in a subtropical forest. Scientific Reports, 2016, 6, 36672.  | 3.3         | 27        |
| 152 | Unraveling spatiotemporal variability of arbuscular mycorrhizal fungi in a temperate grassland plot. Environmental Microbiology, 2020, 22, 873-888.   | 3.8         | 27        |
| 153 | Synthesis of two types of association between Morchella esculenta and Picea abies under controlled culture conditions. Journal of Plant Physiology, 1993, 141, 12-17.   | 3.5         | 26        |
| 154 | A molecular phylogeny of Hebeloma species from Europe. Mycological Research, 2006, 110, 369-380.  | 2.5         | 26        |
| 155 | <i>Glomus indicum, </i> a new arbuscular mycorrhizal fungus. Botany, 2010, 88, 132-143.   | 1.0         | 26        |
| 156 | Contrasting effects of grassland management modes on species-abundance distributions of multiple groups. Agriculture, Ecosystems and Environment, 2017, 237, 143-153.   | <b>5.</b> 3 | 26        |
| 157 | Increasing N deposition impacts neither diversity nor functions of deadwoodâ€inhabiting fungal communities, but adaptation and functional redundancy ensure ecosystem function. Environmental Microbiology, 2018, 20, 1693-1710.                    | 3.8         | 26        |
| 158 | First insights into the living groundwater mycobiome of the terrestrial biogeosphere. Water Research, 2018, 145, 50-61.   | 11.3        | 26        |
| 159 | Shifts Between and Among Populations of Wheat Rhizosphere Pseudomonas, Streptomyces and Phyllobacterium Suggest Consistent Phosphate Mobilization at Different Wheat Growth Stages Under Abiotic Stress. Frontiers in Microbiology, 2019, 10, 3109. | 3.5         | 25        |
| 160 | Species diversity within the group (Ascomycota: Morchellaceae) in Germany and France. Organisms Diversity and Evolution, 2005, 5, 101-107.  | 1.6         | 24        |
| 161 | Superimposed Pristine Limestone Aquifers with Marked Hydrochemical Differences Exhibit Distinct Fungal Communities. Frontiers in Microbiology, 2016, 7, 666.  | 3.5         | 24        |
| 162 | Transcriptome analysis in oak uncovers a strong impact of endogenous rhythmic growth on the interaction with plant-parasitic nematodes. BMC Genomics, 2016, 17, 627.  | 2.8         | 24        |

| #   | Article  | IF               | CITATIONS           |
|-----|--|------------------|---------------------|
| 163 | Home-Field Advantage in Wood Decomposition Is Mainly Mediated by Fungal Community Shifts at "Home―Versus "Away― Microbial Ecology, 2019, 78, 725-736.  | 2.8              | 24                  |
| 164 | Organic agricultural practice enhances arbuscular mycorrhizal symbiosis in correspondence to soil warming and altered precipitation patterns. Environmental Microbiology, 2021, 23, 6163-6176.                                   | 3.8              | 24                  |
| 165 | Soil Texture, Sampling Depth and Root Hairs Shape the Structure of ACC Deaminase Bacterial Community Composition in Maize Rhizosphere. Frontiers in Microbiology, 2021, 12, 616828.  | 3.5              | 23                  |
| 166 | Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term biodiversity–ecosystem functioning relationships. Research Ideas and Outcomes, 0, 5, .  | 1.0              | 23                  |
| 167 | Fungal communities in bulk soil and stone compartments of different forest and soil types as revealed by a barcoding ITS rDNA and a functional laccase encoding gene marker. Soil Biology and Biochemistry, 2011, 43, 1292-1299. | 8.8              | 22                  |
| 168 | Mixing tree species associated with arbuscular or ectotrophic mycorrhizae reveals dual mycorrhization and interactive effects on the fungal partners. Ecology and Evolution, 2021, 11, 5424-5440.                                | 1.9              | 22                  |
| 169 | Priming effects in soils across Europe. Global Change Biology, 2022, 28, 2146-2157.  | 9.5              | 22                  |
| 170 | Identification and differentiation of mycorrhizal isolates of black alder by sequence analysis of the ITS region. Mycorrhiza, 2000, 10, 87-93.   | 2.8              | 21                  |
| 171 | Differential expression of two class III chitinases in two types of roots of Quercus robur during pre-mycorrhizal interactions with Piloderma croceum. Mycorrhiza, 2006, 16, 219-223.  | 2.8              | 21                  |
| 172 | Soil organisms shape the competition between grassland plant species. Oecologia, 2012, 170, 1021-1032.   | 2.0              | 21                  |
| 173 | Effects of plant-symbiotic relationships on the living soil microbial community and microbial necromass in a long-term agro-ecosystem. Science of the Total Environment, 2017, 581-582, 756-765.                                 | 8.0              | 21                  |
| 174 | Tree phylogenetic diversity structures multitrophic communities. Functional Ecology, 2021, 35, 521-534.  | 3.6              | 21                  |
| 175 | Analysis of microbial populations in plastic–soil systems after exposure to high poly(butylene) Tj ETQq1 1 0.78<br>Europe, 2021, 33, .   | 34314 rgB<br>5.5 | T /Overlock 1<br>21 |
| 176 | Field observations on growth and development of <i>Morchella rotunda</i> and <i>Mitrophora semilibera</i> in relation to forest soil temperature. Canadian Journal of Botany, 1989, 67, 589-593.                                 | 1.1              | 20                  |
| 177 | Mycelial differentiation of Morchella esculenta in pure culture. Mycological Research, 1993, 97, 136-140.  | 2.5              | 20                  |
| 178 | Endogenous rhythmic growth, a trait suitable for the study of interplays between multitrophic interactions and tree development. Perspectives in Plant Ecology, Evolution and Systematics, 2016, 19, 40-48.                      | 2.7              | 20                  |
| 179 | Tree Root Zone Microbiome: Exploring the Magnitude of Environmental Conditions and Host Tree Impact. Frontiers in Microbiology, 2020, 11, 749.   | 3.5              | 20                  |
| 180 | Diversity of the internal transcribed spacer of rDNA in morels. Canadian Journal of Microbiology, 1999, 45, 769-778.   | 1.7              | 19                  |

| #   | Article   | IF  | Citations |
|-----|---|-----|-----------|
| 181 | Sweets for the foe – effects of nonstructural carbohydrates on the susceptibility of Quercus robur against Phytophthora quercina. New Phytologist, 2014, 203, 1282-1290.  | 7.3 | 19        |
| 182 | Distinct effects of host and neighbour tree identity on arbuscular and ectomycorrhizal fungi along a tree diversity gradient. ISME Communications, 2021, $1$ , .  | 4.2 | 19        |
| 183 | Enhancing the mineralization of [U-14 C]dibenzo- p-dioxin in three different soils by addition of organic substrate or inoculation with white-rot fungi. Applied Microbiology and Biotechnology, 1997, 48, 665-670.   | 3.6 | 18        |
| 184 | Extracellular laccase activity and transcript levels of putative laccase genes during removal of $\hat{A} \in \hat{A} \in \hat{A} = \hat{A} + \hat{A} \in \hat{A} = \hat$ | 1.8 | 18        |
| 185 | Response of recalcitrant soil substances to reduced N deposition in a spruce forest soil: integrating laccase-encoding genes and lignin decomposition. FEMS Microbiology Ecology, 2010, 73, no-no.  | 2.7 | 18        |
| 186 | Potential links between woodâ€inhabiting and soil fungal communities: Evidence from highâ€throughput sequencing. MicrobiologyOpen, 2019, 8, e00856.   | 3.0 | 18        |
| 187 | First Insights into the Microbiome of a Mangrove Tree Reveal Significant Differences in Taxonomic and Functional Composition among Plant and Soil Compartments. Microorganisms, 2019, 7, 585.   | 3.6 | 18        |
| 188 | Future Climate Significantly Alters Fungal Plant Pathogen Dynamics during the Early Phase of Wheat Litter Decomposition. Microorganisms, 2020, 8, 908.  | 3.6 | 18        |
| 189 | Targeting the Active Rhizosphere Microbiome of Trifolium pratense in Grassland Evidences a Stronger-Than-Expected Belowground Biodiversity-Ecosystem Functioning Link. Frontiers in Microbiology, 2021, 12, 629169.   | 3.5 | 18        |
| 190 | Influence of Commonly Used Primer Systems on Automated Ribosomal Intergenic Spacer Analysis of Bacterial Communities in Environmental Samples. PLoS ONE, 2015, 10, e0118967.  | 2.5 | 18        |
| 191 | FungalTraits vs. FUNGuild: Comparison of Ecological Functional Assignments of Leaf- and Needle-Associated Fungi Across 12 Temperate Tree Species. Microbial Ecology, 2023, 85, 411-428.   | 2.8 | 18        |
| 192 | Detection, quantification and identification of fungal extracellular laccases using polyclonal antibody and mass spectrometry. Enzyme and Microbial Technology, 2007, 41, 694-701.  | 3.2 | 17        |
| 193 | Multiâ€trophic guilds respond differently to changing elevation in a subtropical forest. Ecography, 2018, 41, 1013-1023.  | 4.5 | 17        |
| 194 | Recovery of soil unicellular eukaryotes: An efficiency and activity analysis on the single cell level. Journal of Microbiological Methods, 2013, 95, 463-469.   | 1.6 | 16        |
| 195 | Carbon storage potential in size–density fractions from semi-natural grassland ecosystems with different productivities over varying soil depths. Science of the Total Environment, 2016, 545-546, 30-39.   | 8.0 | 16        |
| 196 | Resident and phytometer plants host comparable rhizosphere fungal communities in managed grassland ecosystems. Scientific Reports, 2020, 10, 919.   | 3.3 | 16        |
| 197 | Low root functional dispersion enhances functionality of plant growth by influencing bacterial activities in European forest soils. Environmental Microbiology, 2021, 23, 1889-1906.  | 3.8 | 16        |
| 198 | The multidimensionality of soil macroecology. Global Ecology and Biogeography, 2021, 30, 4-10.  | 5.8 | 16        |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 199 | National Forest Inventories capture the multifunctionality of managed forests in Germany. Forest Ecosystems, 2021, 8, .  | 3.1 | 16        |
| 200 | Mycosporins and related compounds in field and cultured mycelial structures of Morchella esculenta. Mycological Research, 1991, 95, 752-754.   | 2.5 | 15        |
| 201 | DNA- and RNA- Derived Fungal Communities in Subsurface Aquifers Only Partly Overlap but React Similarly to Environmental Factors. Microorganisms, 2019, 7, 341.  | 3.6 | 15        |
| 202 | Collembola interact with mycorrhizal fungi in modifying oak morphology, C and N incorporation and transcriptomics. Royal Society Open Science, 2019, 6, 181869.  | 2.4 | 15        |
| 203 | Soil bacterial communities and their associated functions for forest restoration on a limestone mine in northern Thailand. PLoS ONE, 2021, 16, e0248806.   | 2.5 | 15        |
| 204 | Inferring interactions in complex microbial communities from nucleotide sequence data and environmental parameters. PLoS ONE, 2017, 12, e0173765.  | 2.5 | 15        |
| 205 | Initiation of [ 36 Cl]hexachlorobenzene dechlorination in three different soils under artificially induced anaerobic conditions. Applied Microbiology and Biotechnology, 1997, 48, 115-120.                                    | 3.6 | 14        |
| 206 | Oak displays common local but specific distant gene regulation responses to different mycorrhizal fungi. BMC Genomics, 2020, 21, 399.  | 2.8 | 14        |
| 207 | Reinoculation elucidates mechanisms of bacterial community assembly in soil and reveals undetected microbes. Biology and Fertility of Soils, 2016, 52, 1073-1083.  | 4.3 | 13        |
| 208 | Application of nextâ€generation sequencing technologies to conservation of woodâ€inhabiting fungi. Conservation Biology, 2019, 33, 716-724.  | 4.7 | 13        |
| 209 | Drivers for ammonia-oxidation along a land-use gradient in grassland soils. Soil Biology and Biochemistry, 2014, 69, 179-186.  | 8.8 | 12        |
| 210 | Nitrogen fixing bacteria facilitate microbial biodegradation of a bio-based and biodegradable plastic in soils under ambient and future climatic conditions. Environmental Sciences: Processes and Impacts, 2022, 24, 233-241. | 3.5 | 12        |
| 211 | Taxonomical and functional composition of strawberry microbiome is genotype-dependent. Journal of Advanced Research, 2022, 42, 189-204.  | 9.5 | 12        |
| 212 | Diversity and geographic distribution of soil streptomycetes with antagonistic potential against actinomycetoma-causing Streptomyces sudanensis in Sudan and South Sudan. BMC Microbiology, 2020, 20, 33.                      | 3.3 | 11        |
| 213 | Can We Estimate Functionality of Soil Microbial Communities from Structure-Derived Predictions? A Reality Test in Agricultural Soils. Microbiology Spectrum, 2021, 9, e0027821.  | 3.0 | 11        |
| 214 | Effects of Tree Composition and Soil Depth on Structure and Functionality of Belowground Microbial Communities in Temperate European Forests. Frontiers in Microbiology, 0, 13, .  | 3.5 | 11        |
| 215 | Paraglomus laccatum comb. nov a new member of Paraglomeraceae (Glomeromycota). Nova<br>Hedwigia, 2007, 84, 395-407.  | 0.4 | 10        |
| 216 | Linking Soil Fungal Generality to Tree Richness in Young Subtropical Chinese Forests.<br>Microorganisms, 2019, 7, 547.   | 3.6 | 10        |

| #   | Article  | IF         | CITATIONS     |
|-----|--|------------|---------------|
| 217 | Amplicon Sequencing-Based Bipartite Network Analysis Confirms a High Degree of Specialization and Modularity for Fungi and Prokaryotes in Deadwood. MSphere, 2021, 6, .  | 2.9        | 10            |
| 218 | Biotic Interactions as Mediators of Context-Dependent Biodiversity-Ecosystem Functioning Relationships. Research Ideas and Outcomes, 0, 8, .   | 1.0        | 10            |
| 219 | Polymorphism in morels: isozyme electrophoretic analysis. Canadian Journal of Microbiology, 1996, 42, 819-827.   | 1.7        | 9             |
| 220 | Chitinase activities, scab resistance, mycorrhization rates and biomass of own-rooted and grafted transgenic apple. Genetics and Molecular Biology, 2012, 35, 466-473.   | 1.3        | 9             |
| 221 | Distribution of Medically Relevant Antibiotic Resistance Genes and Mobile Genetic Elements in Soils of Temperate Forests and Grasslands Varying in Land Use. Genes, 2020, 11, 150.   | 2.4        | 9             |
| 222 | Microbial Processes and Features of the Microbiota in Histosols From a Black Alder (Alnus glutinosa) Tj ETQq0 0  | 0 rgBT /Ov | verlock 10 Tf |
| 223 | First Evidence That Nematode Communities in Deadwood Are Related to Tree Species Identity and to Co-Occurring Fungi and Prokaryotes. Microorganisms, 2021, 9, 1454.  | 3.6        | 8             |
| 224 | Among stand heterogeneity is key for biodiversity in managed beech forests but does not question the value of unmanaged forests: Response to Bruun and Heilmannâ€Clausen (2021). Journal of Applied Ecology, 2021, 58, 1817-1826.                                  | 4.0        | 8             |
| 225 | Microbial diversity-ecosystem function relationships across environmental gradients. Research Ideas and Outcomes, 0, 6, .  | 1.0        | 8             |
| 226 | The iDiv Ecotronâ€"A flexible research platform for multitrophic biodiversity research. Ecology and Evolution, 2021, 11, 15174-15190.  | 1.9        | 8             |
| 227 | Why and How Using Micropropagated Trees rather than Germinations for Controlled Synthesis of Ectomycorrhizal Associations?. , 2008, , 439-465.   |            | 6             |
| 228 | Host plant richness explains diversity of ectomycorrhizal fungi: Response to the comment of Tedersoo <i>etÂal</i> . (2014). Molecular Ecology, 2014, 23, 996-999.  | 3.9        | 6             |
| 229 | Deciphering Trifolium pratense L. holobiont reveals a microbiome resilient to future climate changes.<br>MicrobiologyOpen, 2021, 10, e1217.  | 3.0        | 6             |
| 230 | Interactions Between High Load of a Bio-based and Biodegradable Plastic and Nitrogen Fertilizer Affect Plant Biomass and Health: A Case Study with Fusarium solani and Mung Bean (Vigna radiata L.). Journal of Polymers and the Environment, 2022, 30, 3534-3544. | 5.0        | 6             |
| 231 | Cross-kingdom interactions and functional patterns of active microbiota matter in governing deadwood decay. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20220130.  | 2.6        | 6             |
| 232 | Water Deficit History Selects Plant Beneficial Soil Bacteria Differently Under Conventional and Organic Farming. Frontiers in Microbiology, 0, 13, .   | 3.5        | 6             |
| 233 | Biofilm forming rhizobacteria affect the physiological and biochemical responses of wheat to drought. AMB Express, 2022, 12, .   | 3.0        | 6             |
| 234 | Links among Microbial Communities, Soil Properties and Functions: Are Fungi the Sole Players in Decomposition of Bio-Based and Biodegradable Plastic?. Polymers, 2022, 14, 2801.   | 4.5        | 6             |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 235 | Tree Response to Herbivory Is Affected by Endogenous Rhythmic Growth and Attenuated by Cotreatment With a Mycorrhizal Fungus. Molecular Plant-Microbe Interactions, 2019, 32, 770-781.   | 2.6 | 5         |
| 236 | Early Stage Root-Associated Fungi Show a High Temporal Turnover, but Are Independent of Beech Progeny. Microorganisms, 2020, 8, 210.   | 3.6 | 5         |
| 237 | Life in the Wheat Litter: Effects of Future Climate on Microbiome and Function During the Early Phase of Decomposition. Microbial Ecology, 2022, 84, 90-105.   | 2.8 | 5         |
| 238 | Molecular Screening of Microorganisms Associated with Discolored Wood in Dead European Beech Trees Suffered from Extreme Drought Event Using Next Generation Sequencing. Plants, 2021, 10, 2092.                               | 3.5 | 5         |
| 239 | Ectomycorrhizal fungus supports endogenous rhythmic growth and corresponding resource allocation in oak during various below- and aboveground biotic interactions. Scientific Reports, 2021, 11, 23680.                        | 3.3 | 5         |
| 240 | Disentangling the importance of space and host tree for the beta-diversity of beetles, fungi, and bacteria: Lessons from a large dead-wood experiment. Biological Conservation, 2022, 268, 109521.                             | 4.1 | 5         |
| 241 | Labile water soluble components govern the short-term microbial decay of hydrochar from sewage sludge. Archives of Agronomy and Soil Science, 2018, 64, 873-880.   | 2.6 | 4         |
| 242 | Effect of raw humus under two adult Scots pine stands on ectomycorrhization, nutritional status, nitrogen uptake, phosphorus uptake and growth of Pinus sylvestris seedlings. Tree Physiology, 2012, 32, 36-48.                | 3.1 | 3         |
| 243 | Balance between geographic, soil, and host tree parameters to shape soil microbiomes associated to clonal oak varies across soil zones along a European North–South transect. Environmental Microbiology, 2021, 23, 2274-2292. | 3.8 | 3         |
| 244 | City life of mycorrhizal and wood-inhabiting macrofungi: Importance of urban areas for maintaining fungal biodiversity. Landscape and Urban Planning, 2022, 221, 104360.   | 7.5 | 3         |
| 245 | Future Climate Alters Pathogens-Microbiome Co-occurrence Networks in Wheat Straw Residues during Decomposition. Proceedings (mdpi), 2020, 66, 22.  | 0.2 | 2         |
| 246 | Field observations on relations between living roots and Morchella Rotunda (Pers.) Boudier. Agriculture, Ecosystems and Environment, 1990, 28, 47-48.  | 5.3 | 1         |
| 247 | Temporal Changes and Alternating Host Tree Root and Shoot Growth Affect Soil Microbiomes.<br>Proceedings (mdpi), 2021, 66, .   | 0.2 | 1         |
| 248 | Tracing the Behaviour of Plants in Ecosystems: How Can Molecular Ecology Help?., 2005,, 392-408.   |     | 0         |
| 249 | Interactions of Microbes with Genetically Modified Plants. , 2008, , 179-196.  |     | O         |