# Anna Rosling RÃ¶nnlund

List of Publications by Year
in descending order



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|---|---|---|---|
| 45 papers | 3,505 citations | 236925 25 h-index | 254184 43 g-index |
| 49 all docs | 49 docs citations | 49 times ranked | 4573 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Plant Cell Wallâ€“Decomposing Machinery Underlies the Functional Diversity of Forest Fungi. Science, 2011, 333, 762-765. | 12.6 | 512 |
| 2 | Vertical distribution of ectomycorrhizal fungal taxa in a podzol soil profile. New Phytologist, 2003, 159, 775-783. | 7.3 | 310 |
| 3 | The role of fungi in weathering. Frontiers in Ecology and the Environment, 2004, 2, 258-264. | 4.0 | 271 |
| 4 | Archaeorhizomycetes: Unearthing an Ancient Class of Ubiquitous Soil Fungi. Science, 2011, 333, 876-879. | 12.6 | 249 |
| 5 | Molecular Identification of Ectomycorrhizal Mycelium in Soil Horizons. Applied and Environmental Microbiology, 2003, 69, 327-333. | 3.1 | 206 |
| 6 | Organic acid induced release of nutrients from metal-stabilized soil organic matter â€“ The unbutton model. Soil Biology and Biochemistry, 2015, 84, 168-176. | 8.8 | 206 |
| 7 | Dominant mycorrhizal association of trees alters carbon and nutrient cycling by selecting for microbial groups with distinct enzyme function. New Phytologist, 2017, 214, 432-442. | 7.3 | 173 |
| 8 | Organic phosphorus in the terrestrial environment: a perspective on the state of the art and future priorities. Plant and Soil, 2018, 427, 191-208. | 3.7 | 145 |
| 9 | Different crop rotation systems as drivers of change in soil bacterial community structure and yield of rice, Oryza sativa. Biology and Fertility of Soils, 2012, 48, 217-225. | 4.3 | 121 |
| 10 | Phosphorus cycling in deciduous forest soil differs between stands dominated by ectoâ€•and arbuscular mycorrhizal trees. New Phytologist, 2016, 209, 1184-1195. | 7.3 | 118 |
| 11 | Oxalate and ferricrocin exudation by the extramatrical mycelium of an ectomycorrhizal fungus in symbiosis with Pinus sylvestris. New Phytologist, 2006, 169, 367-378. | 7.3 | 111 |
| 12 | Carbon allocation to ectomycorrhizal roots and mycelium colonising different mineral substrates. New Phytologist, 2004, 162, 795-802. | 7.3 | 110 |
| 13 | Mycelial growth and substrate acidification of ectomycorrhizal fungi in response to different minerals. FEMS Microbiology Ecology, 2004, 47, 31-37. | 2.7 | 101 |
| 14 | The role of fungi in biogenic weathering in boreal forest soils. Fungal Biology Reviews, 2009, 23, 101-106. | 4.7 | 85 |
| 15 | Phosphorous availability influences the dissolution of apatite by soil fungi. Geobiology, 2007, 5, 265-280. | 2.4 | 60 |
| 16 | Specificity in Arabidopsis thaliana recruitment of root fungal communities from soil and rhizosphere. Fungal Biology, 2018, 122, 231-240. | 2.5 | 58 |
| 17 | Reviews and syntheses: Biological weathering and its consequences at different spatial levels â€“ from nanoscale to global scale. Biogeosciences, 2020, 17, 1507-1533. | 3.3 | 58 |
| 18 | Effect of Rainfall-Induced Soil Geochemistry Dynamics on Grassland Soil Microbial Communities. Applied and Environmental Microbiology, 2012, 78, 7587-7595. | 3.1 | 55 |

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|---|---|---|---|
| 19 | Ectomycorrhizal fungal communities associated with Salix viminalis L. and S. dasyclados Wimm. clones in a short-rotation forestry plantation. Forest Ecology and Management, 2004, 196, 413-424. | 3.2 | 51 |
| 20 | Archaeorhizomyces borealis sp. nov. and a sequence-based classification of related soil fungal species. Fungal Biology, 2014, 118, 943-955. | 2.5 | 48 |
| 21 | Considerations and consequences of allowing DNA sequence data as types of fungal taxa. IMA Fungus, 2018, 9, 167-175. | 3.8 | 45 |
| 22 | Approaches to modelling mineral weathering by fungi. Fungal Biology Reviews, 2009, 23, 138-144. | 4.7 | 44 |
| 23 | Trees, Mycorrhiza and Minerals â€“Field Relevance ofin vitroExperiments. Geomicrobiology Journal, 2009, 26, 389-401. | 2.0 | 39 |
| 24 | Localisation of phosphomonoesterase activity in ectomycorrhizal fungi grown on different phosphorus sources. Mycorrhiza, 2009, 19, 197-204. | 2.8 | 29 |
| 25 | Occurrence and impact of the root-rot biocontrol agent Phlebiopsis gigantea on soil fungal communities in Picea abies forests of northern Europe. FEMS Microbiology Ecology, 2012, 81, 438-445. | 2.7 | 29 |
| 26 | The biogeochemical impact of ectomycorrhizal conifers on major soil elements (Al, Fe, K and Si). Geoderma, 2006, 136, 364-377. | 5.1 | 26 |
| 27 | Comment on â€œGlobal diversity and geography of soil fungiâ€• Science, 2015, 348, 1438-1438. | 12.6 | 23 |
| 28 | DNA-metabarcoding uncovers the diversity of soil-inhabiting fungi in the tropical island of Puerto Rico. Mycoscience, 2016, 57, 217-227. | 0.8 | 22 |
| 29 | Building de novo reference genome assemblies of complex eukaryotic microorganisms from single nuclei. Scientific Reports, 2020, 10, 1303. | 3.3 | 22 |
| 30 | Archaeorhizomycetes: Patterns of Distribution and Abundance in Soil. Soil Biology, 2013, , 333-349. | 0.8 | 19 |
| 31 | Tremella macrobasidiata and Tremella variae have abundant and widespread yeast stages in Lecanora lichens. Environmental Microbiology, 2021, 23, 2484-2498. | 3.8 | 16 |
| 32 | Longâ€•and shortâ€•read metabarcoding technologies reveal similar spatiotemporal structures in fungal communities. Molecular Ecology Resources, 2021, 21, 1833-1849. | 4.8 | 16 |
| 33 | Integrated nutrient cycles in boreal forest ecosystems â€“ the role of mycorrhizal fungi. , 2006, , 28-50. | | 15 |
| 34 | Naming the untouchable â€“ environmental sequences and niche partitioning as taxonomical evidence in fungi. IMA Fungus, 2020, 11, 23. | 3.8 | 15 |
| 35 | In-depth Phylogenomic Analysis of Arbuscular Mycorrhizal Fungi Based on a Comprehensive Set of de novo Genome Assemblies. Frontiers in Fungal Biology, 2021, 2, . | 2.0 | 15 |
| 36 | Variation in hyphal production rather than turnover regulates standing fungal biomass in temperate hardwood forests. Ecology, 2021, 102, e03260. | 3.2 | 13 |

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|---|---|---|---|
| 37 | The impact of trees, ectomycorrhiza and potassium availability on simple organic compounds and dissolved organic carbon in soil. Soil Biology and Biochemistry, 2006, 38, 1912-1923. | 8.8 | 12 |
| 38 | Fungal and bacterial community responses to Suillus variegtus extraradical mycelia and soil profile in Scots pine microcosms. Plant and Soil, 2014, 385, 255-272. | 3.7 | 10 |
| 39 | Ectomycorrhizal fungi in mineral soil. Mineralogical Magazine, 2008, 72, 127-130. | 1.4 | 9 |
| 40 | Distribution patterns of fungal taxa and inferred functional traits reflect the non-uniform vertical stratification of soil microhabitats in a coastal pine forest. FEMS Microbiology Ecology, 2019, 95, . | 2.7 | 8 |
| 41 | Biological enhancement of mineral weathering by <i>Pinus</i> <i>sylvestris</i> seedlings â€“ effects of plants, ectomycorrhizal fungi, and elevated CO<sub>2</sub>. Biogeosciences, 2019, 16, 3637-3649. | 3.3 | 8 |
| 42 | Soil fungal communities of ectomycorrhizal dominated woodlands across West Africa. MycoKeys, 2021, 81, 45-68. | 1.9 | 7 |
| 43 | The Role of Fungi in Weathering. Frontiers in Ecology and the Environment, 2004, 2, 258. | 4.0 | 7 |
| 44 | Effects of operational taxonomic unit inference methods on soil microeukaryote community analysis using longâ€read metabarcoding. Ecology and Evolution, 2022, 12, e8676. | 1.9 | 3 |
| 45 | Forest Fire Influence on Tomicus piniperda-Associated Fungal Communities and Phloem Nutrient Availability of Colonized Pinus sylvestris. Microbial Ecology, 0, , . | 2.8 | 1 |