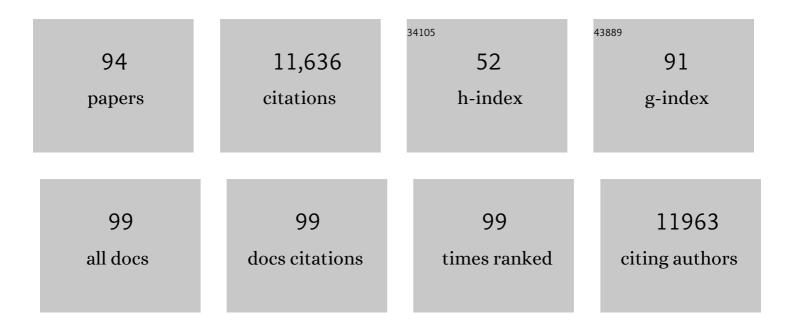
List of Publications by Year in descending order

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LIESIE MOMMED

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Plant neighbours can make or break the disease transmission chain of a fungal root pathogen. New Phytologist, 2022, 233, 1303-1316. | 7.3 | 11 |
| 2 | Deciphering the role of specialist and generalist plant–microbial interactions as drivers of plant–soil feedback. New Phytologist, 2022, 234, 1929-1944. | 7.3 | 63 |
| 3 | Plant functional group drives the community structure of saprophytic fungi in a grassland biodiversity experiment. Plant and Soil, 2021, 461, 91-105. | 3.7 | 50 |
| 4 | Root traits as drivers of plant and ecosystem functioning: current understanding, pitfalls and future research needs. New Phytologist, 2021, 232, 1123-1158. | 7.3 | 277 |
| 5 | msGBS: A new highâ€ŧhroughput approach to quantify the relative species abundance in root samples of multispecies plant communities. Molecular Ecology Resources, 2021, 21, 1021-1036. | 4.8 | 12 |
| 6 | Soil Biodiversity: Stateâ€ofâ€theâ€Art and Possible Implementation in Chemical Risk Assessment. Integrated Environmental Assessment and Management, 2021, 17, 541-551. | 2.9 | 10 |
| 7 | Plant diversity enhances production and downward transport of biodegradable dissolved organic matter. Journal of Ecology, 2021, 109, 1284-1297. | 4.0 | 17 |
| 8 | Snow roots: Where are they and what are they for?. Ecology, 2021, 102, e03255. | 3.2 | 0 |
| 9 | Global root traits (CRooT) database. Global Ecology and Biogeography, 2021, 30, 25-37. | 5.8 | 90 |
| 10 | Mycorrhizal associations change root functionality: a 3D modelling study on competitive interactions between plants for light and nutrients. New Phytologist, 2021, 231, 1171-1182. | 7.3 | 17 |
| 11 | Root traits explain plant species distributions along climatic gradients yet challenge the nature of ecological trade-offs. Nature Ecology and Evolution, 2021, 5, 1123-1134. | 7.8 | 62 |
| 12 | An integrated framework of plant form and function: the belowground perspective. New Phytologist, 2021, 232, 42-59. | 7.3 | 153 |
| 13 | A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. New Phytologist, 2021, 232, 973-1122. | 7.3 | 216 |
| 14 | Breeding Beyond Monoculture: Putting the "Intercrop―Into Crops. Frontiers in Plant Science, 2021, 12, 734167. | 3.6 | 32 |
| 15 | Limited evidence for spatial resource partitioning across temperate grassland biodiversity experiments. Ecology, 2020, 101, e02905. | 3.2 | 40 |
| 16 | The role of fineâ€root mass, specific root length and life span in tree performance: A wholeâ€tree exploration. Functional Ecology, 2020, 34, 575-585. | 3.6 | 61 |
| 17 | Plant traits alone are poor predictors of ecosystem properties and long-term ecosystem functioning. Nature Ecology and Evolution, 2020, 4, 1602-1611. | 7.8 | 114 |
| 18 | Drivers of total and pathogenic soil-borne fungal communities in grassland plant species. Fungal Ecology, 2020, 48, 100987. | 1.6 | 24 |

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|----|---|------|-----------|
| 19 | The results of biodiversity–ecosystem functioning experiments are realistic. Nature Ecology and Evolution, 2020, 4, 1485-1494. | 7.8 | 93 |
| 20 | Do soilâ€borne fungal pathogens mediate plant diversity–productivity relationships? Evidence and future opportunities. Journal of Ecology, 2020, 108, 1810-1821. | 4.0 | 49 |
| 21 | The fungal collaboration gradient dominates the root economics space in plants. Science Advances, 2020, 6, . | 10.3 | 377 |
| 22 | Biodiversity increases multitrophic energy use efficiency, flow and storage in grasslands. Nature Ecology and Evolution, 2020, 4, 393-405. | 7.8 | 45 |
| 23 | Using root traits to understand temporal changes in biodiversity effects in grassland mixtures. Oikos, 2019, 128, 208-220. | 2.7 | 16 |
| 24 | Linking ecology and plant pathology to unravel the importance of soil-borne fungal pathogens in species-rich grasslands. European Journal of Plant Pathology, 2019, 154, 141-156. | 1.7 | 42 |
| 25 | Plant species richness and functional groups have different effects on soil water content in a decadeâ€long grassland experiment. Journal of Ecology, 2019, 107, 127-141. | 4.0 | 69 |
| 26 | Effects of extreme rainfall events are independent of plant species richness in an experimental grassland community. Oecologia, 2019, 191, 177-190. | 2.0 | 18 |
| 27 | Persistence of dissolved organic matter explained by molecular changes during its passage through soil. Nature Geoscience, 2019, 12, 755-761. | 12.9 | 230 |
| 28 | Above- and belowground overyielding are related at the community and species level in a grassland biodiversity experiment. Advances in Ecological Research, 2019, 61, 55-89. | 2.7 | 12 |
| 29 | Maize varieties can strengthen positive plant-soil feedback through beneficial arbuscular mycorrhizal fungal mutualists. Mycorrhiza, 2019, 29, 251-261. | 2.8 | 11 |
| 30 | The Future of Complementarity: Disentangling Causes from Consequences. Trends in Ecology and Evolution, 2019, 34, 167-180. | 8.7 | 246 |
| 31 | Lost in diversity: the interactions between soilâ€borne fungi, biodiversity and plant productivity. New Phytologist, 2018, 218, 542-553. | 7.3 | 160 |
| 32 | Belowâ€ground resource partitioning alone cannot explain the biodiversity–ecosystem function relationship: A field test using multiple tracers. Journal of Ecology, 2018, 106, 2002-2018. | 4.0 | 53 |
| 33 | Belowâ€ground complementarity effects in a grassland biodiversity experiment are related to deepâ€rooting species. Journal of Ecology, 2018, 106, 265-277. | 4.0 | 76 |
| 34 | Depthâ€based differentiation in nitrogen uptake between graminoids and shrubs in an Arctic tundra plant community. Journal of Vegetation Science, 2018, 29, 34-41. | 2.2 | 17 |
| 35 | Focus on a locus. Nature Ecology and Evolution, 2018, 2, 1838-1839. | 7.8 | 1 |
| 36 | Fine-root trait plasticity of beech (Fagus sylvatica) and spruce (Picea abies) forests on two contrasting soils. Plant and Soil, 2017, 415, 175-188. | 3.7 | 71 |

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|----|---|-----|-----------|
| 37 | Microbial catabolic diversity in and beyond the rhizosphere of plant species and plant genotypes. Pedobiologia, 2017, 61, 43-49. | 1.2 | 16 |
| 38 | Initial biochar effects on plant productivity derive from N fertilization. Plant and Soil, 2017, 415, 435-448. | 3.7 | 22 |
| 39 | Root biomass and exudates link plant diversity with soil bacterial and fungal biomass. Scientific Reports, 2017, 7, 44641. | 3.3 | 309 |
| 40 | Short-term root and leaf decomposition of two dominant plant species in a Siberian tundra. Pedobiologia, 2017, 65, 68-76. | 1.2 | 10 |
| 41 | Root chemistry and soil fauna, but not soil abiotic conditions explain the effects of plant diversity on root decomposition. Oecologia, 2017, 185, 499-511. | 2.0 | 13 |
| 42 | 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 |
| 43 | Plant species richness negatively affects root decomposition in grasslands. Journal of Ecology, 2017, 105, 209-218. | 4.0 | 41 |
| 44 | Above―and belowâ€ground responses of four tundra plant functional types to deep soil heating and surface soil fertilization. Journal of Ecology, 2017, 105, 947-957. | 4.0 | 49 |
| 45 | Plants are less negatively affected by flooding when growing in speciesâ€rich plant communities. New Phytologist, 2017, 213, 645-656. | 7.3 | 79 |
| 46 | Plant Phenotypic and Transcriptional Changes Induced by Volatiles from the Fungal Root Pathogen Rhizoctonia solani. Frontiers in Plant Science, 2017, 8, 1262. | 3.6 | 78 |
| 47 | Functional trait dissimilarity drives both species complementarity and competitive disparity. Functional Ecology, 2017, 31, 2320-2329. | 3.6 | 48 |
| 48 | Towards a multidimensional root trait framework: a tree root review. New Phytologist, 2016, 211, 1159-1169. | 7.3 | 432 |
| 49 | Belowground plant biomass allocation in tundra ecosystems and its relationship with temperature. Environmental Research Letters, 2016, 11, 055003. | 5.2 | 45 |
| 50 | Effects of biodiversity strengthen over time as ecosystem functioning declines at low and increases at high biodiversity. Ecosphere, 2016, 7, e01619. | 2.2 | 87 |
| 51 | Advances in the rhizosphere: stretching the interface of life. Plant and Soil, 2016, 407, 1-8. | 3.7 | 78 |
| 52 | Can root trait diversity explain complementarity effects in a grassland biodiversity experiment?. Journal of Plant Ecology, 2016, , rtw111. | 2.3 | 9 |
| 53 | Seasonal changes and vertical distribution of root standing biomass of graminoids and shrubs at a Siberian tundra site. Plant and Soil, 2016, 407, 55-65. | 3.7 | 49 |
| 54 | From pots to plots: hierarchical traitâ€based prediction of plant performance in a mesic grassland. Journal of Ecology, 2016, 104, 206-218. | 4.0 | 51 |

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| 55 | Root–Root Interactions: Towards A Rhizosphere Framework. Trends in Plant Science, 2016, 21, 209-217. | 8.8 | 149 |
| 56 | Linking root traits and competitive success in grassland species. Plant and Soil, 2016, 407, 39-53. | 3.7 | 87 |
| 57 | Plant diversity shapes microbeâ€rhizosphere effects on P mobilisation from organic matter in soil. Ecology Letters, 2015, 18, 1356-1365. | 6.4 | 57 |
| 58 | Diversity effects on root length production and loss in an experimental grassland community. Functional Ecology, 2015, 29, 1560-1568. | 3.6 | 31 |
| 59 | Biochar application does not improve the soil hydrological function of a sandy soil. Geoderma, 2015, 251-252, 47-54. | 5.1 | 240 |
| 60 | Plant species richness leaves a legacy of enhanced root litter-induced decomposition in soil. Soil Biology and Biochemistry, 2015, 80, 341-348. | 8.8 | 42 |
| 61 | Plant species diversity affects infiltration capacity in an experimental grassland through changes in soil properties. Plant and Soil, 2015, 397, 1-16. | 3.7 | 105 |
| 62 | Flooding disturbances increase resource availability and productivity but reduce stability in diverse plant communities. Nature Communications, 2015, 6, 6092. | 12.8 | 116 |
| 63 | Root responses of grassland species to spatial heterogeneity of plant–soil feedback. Functional Ecology, 2015, 29, 177-186. | 3.6 | 38 |
| 64 | Spatial heterogeneity of plant–soil feedback affects root interactions and interspecific competition. New Phytologist, 2015, 207, 830-840. | 7.3 | 62 |
| 65 | The way forward in biochar research: targeting tradeâ€offs between the potential wins. GCB Bioenergy, 2015, 7, 1-13. | 5.6 | 228 |
| 66 | Going underground: root traits as drivers of ecosystem processes. Trends in Ecology and Evolution, 2014, 29, 692-699. | 8.7 | 881 |
| 67 | Soil biochar amendment in a nature restoration area: effects on plant productivity and community composition. Ecological Applications, 2014, 24, 1167-1177. | 3.8 | 50 |
| 68 | Plant species richness promotes soil carbon and nitrogen stocks in grasslands without legumes. Journal of Ecology, 2014, 102, 1163-1170. | 4.0 | 220 |
| 69 | Biochars produced from individual grassland species differ in their effect on plant growth. Basic and Applied Ecology, 2014, 15, 18-25. | 2.7 | 8 |
| 70 | Soil amendment with biochar increases the competitive ability of legumes via increased potassium availability. Agriculture, Ecosystems and Environment, 2014, 191, 92-98. | 5.3 | 114 |
| 71 | Longâ€ŧerm study of root biomass in a biodiversity experiment reveals shifts in diversity effects over time. Oikos, 2014, 123, 1528-1536. | 2.7 | 165 |
| 72 | Competing neighbors: light perception and root function. Oecologia, 2014, 176, 1-10. | 2.0 | 91 |

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|----|--|-----|-----------|
| 73 | Root plasticity maintains growth of temperate grassland species under pulsed water supply. Plant and Soil, 2013, 369, 377-386. | 3.7 | 55 |
| 74 | Molecular mechanisms of plant competition: neighbour detection and response strategies. Functional Ecology, 2013, 27, 841-853. | 3.6 | 162 |
| 75 | Independent variations of plant and soil mixtures reveal soil feedback effects on plant community overyielding. Journal of Ecology, 2013, 101, 287-297. | 4.0 | 111 |
| 76 | Early Root Overproduction Not Triggered by Nutrients Decisive for Competitive Success Belowground. PLoS ONE, 2013, 8, e55805. | 2.5 | 67 |
| 77 | The role of roots in the resource economics spectrum. New Phytologist, 2012, 195, 725-727. | 7.3 | 98 |
| 78 | Biomass allocation to leaves, stems and roots: metaâ€analyses of interspecific variation and environmental control. New Phytologist, 2012, 193, 30-50. | 7.3 | 2,012 |
| 79 | Root responses to nutrients and soil biota: drivers of species coexistence and ecosystem productivity. Journal of Ecology, 2012, 100, 6-15. | 4.0 | 182 |
| 80 | Interactive effects of nutrient heterogeneity and competition: implications for root foraging theory?. Functional Ecology, 2012, 26, 66-73. | 3.6 | 124 |
| 81 | Contrasting root behaviour in two grass species: a test of functionality in dynamic heterogeneous conditions. Plant and Soil, 2011, 344, 347-360. | 3.7 | 107 |
| 82 | Belowground DNA-based techniques: untangling the network of plant root interactions. Plant and Soil, 2011, 348, 115-121. | 3.7 | 43 |
| 83 | Unveiling belowâ€ground species abundance in a biodiversity experiment: a test of vertical niche differentiation among grassland species. Journal of Ecology, 2010, 98, 1117-1127. | 4.0 | 219 |
| 84 | A modular concept of plant foraging behaviour: the interplay between local responses and systemic control. Plant, Cell and Environment, 2009, 32, 704-712. | 5.7 | 164 |
| 85 | Improving the Scale and Precision of Hypotheses to Explain Root Foraging Ability. Annals of Botany, 2008, 101, 1295-1301. | 2.9 | 111 |
| 86 | Submergenceâ€induced leaf acclimation in terrestrial species varying in flooding tolerance. New Phytologist, 2007, 176, 337-345. | 7.3 | 64 |
| 87 | Root foraging theory put to the test. Trends in Ecology and Evolution, 2006, 21, 113-116. | 8.7 | 88 |
| 88 | Ecophysiological determinants of plant performance under flooding: a comparative study of seven plant families. Journal of Ecology, 2006, 94, 1117-1129. | 4.0 | 126 |
| 89 | Photosynthetic consequences of phenotypic plasticity in response to submergence: Rumex palustris as a case study. Journal of Experimental Botany, 2006, 57, 283-290. | 4.8 | 62 |
| 90 | A functional comparison of acclimation to shade and submergence in two terrestrial plant species. New Phytologist, 2005, 167, 197-206. | 7.3 | 64 |

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|----|--|-----|-----------|
| 91 | Submergence-Induced Morphological, Anatomical, and Biochemical Responses in a Terrestrial Species Affect Gas Diffusion Resistance and Photosynthetic Performance. Plant Physiology, 2005, 139, 497-508. | 4.8 | 124 |
| 92 | Underwater Photosynthesis in Flooded Terrestrial Plants: A Matter of Leaf Plasticity. Annals of Botany, 2005, 96, 581-589. | 2.9 | 231 |
| 93 | A physiological production model for cocoa (Theobroma cacao): model presentation, validation and application. Agricultural Systems, 2005, 84, 195-225. | 6.1 | 155 |
| 94 | Focusing on individual plants to understand community scale biodiversity effects: the case of root distribution in grasslands. Oikos, 0, , . | 2.7 | 6 |