

Wim H. Van Der Putten

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333
papers

31,431
citations

86
h-index

170
g-index

346
ext. papers

37,946
ext. citations

7.7
avg, IF

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L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 333 | Ecological linkages between aboveground and belowground biota. <i>Science</i> , 2004 , 304, 1629-33 | 33.3 | 2790 |
| 332 | Going back to the roots: the microbial ecology of the rhizosphere. <i>Nature Reviews Microbiology</i> , 2013 , 11, 789-99 | 22.2 | 1684 |
| 331 | Belowground biodiversity and ecosystem functioning. <i>Nature</i> , 2014 , 515, 505-11 | 50.4 | 1393 |
| 330 | Landscape moderation of biodiversity patterns and processes - eight hypotheses. <i>Biological Reviews</i> , 2012 , 87, 661-85 | 13.5 | 1121 |
| 329 | Plant-Soil feedbacks: the past, the present and future challenges. <i>Journal of Ecology</i> , 2013 , 101, 265-276 | 6 | 841 |
| 328 | The significance of soils and soil science towards realization of the United Nations Sustainable Development Goals. <i>Soil</i> , 2016 , 2, 111-128 | 5.8 | 795 |
| 327 | Biodiversity increases the resistance of ecosystem productivity to climate extremes. <i>Nature</i> , 2015 , 526, 574-7 | 50.4 | 647 |
| 326 | Species divergence and trait convergence in experimental plant community assembly. <i>Ecology Letters</i> , 2005 , 8, 1283-1290 | 10 | 519 |
| 325 | Plant-specific soil-borne diseases contribute to succession in foredune vegetation. <i>Nature</i> , 1993 , 362, 53-56 | 50.4 | 502 |
| 324 | Predicting species distribution and abundance responses to climate change: why it is essential to include biotic interactions across trophic levels. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 2025-34 | 5.8 | 496 |
| 323 | Interactions between Aboveground and Belowground Biodiversity in Terrestrial Ecosystems: Patterns, Mechanisms, and Feedbacks. <i>BioScience</i> , 2000 , 50, 1049 | 5.7 | 486 |
| 322 | Soil invertebrate fauna enhances grassland succession and diversity. <i>Nature</i> , 2003 , 422, 711-3 | 50.4 | 435 |
| 321 | Temporal variation in plant-soil feedback controls succession. <i>Ecology Letters</i> , 2006 , 9, 1080-8 | 10 | 426 |
| 320 | Linking above- and belowground multitrophic interactions of plants, herbivores, pathogens, and their antagonists. <i>Trends in Ecology and Evolution</i> , 2001 , 16, 547-554 | 10.9 | 422 |
| 319 | Intensive agriculture reduces soil biodiversity across Europe. <i>Global Change Biology</i> , 2015 , 21, 973-85 | 11.4 | 419 |
| 318 | Soil food web properties explain ecosystem services across European land use systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 14296-301 | 11.5 | 388 |
| 317 | Long-term organic farming fosters below and aboveground biota: Implications for soil quality, biological control and productivity. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 2297-2308 | 7.5 | 353 |

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|-----|--|------|-----|
| 316 | MICROBE-MEDIATED PLANT-BOIL FEEDBACK CAUSES HISTORICAL CONTINGENCY EFFECTS IN PLANT COMMUNITY ASSEMBLY. <i>Ecological Monographs</i> , 2007 , 77, 147-162 | 9 | 330 |
| 315 | Terrestrial ecosystem responses to species gains and losses. <i>Science</i> , 2011 , 332, 1273-7 | 33.3 | 315 |
| 314 | Soil networks become more connected and take up more carbon as nature restoration progresses. <i>Nature Communications</i> , 2017 , 8, 14349 | 17.4 | 309 |
| 313 | Soil nematode abundance and functional group composition at a global scale. <i>Nature</i> , 2019 , 572, 194-198 | 30.4 | 305 |
| 312 | Plant species identity and diversity effects on different trophic levels of nematodes in the soil food web. <i>Oikos</i> , 2004 , 106, 576-586 | 4 | 296 |
| 311 | Linking aboveground and belowground diversity. <i>Trends in Ecology and Evolution</i> , 2005 , 20, 625-33 | 10.9 | 287 |
| 310 | Plant-Boil biota interactions and spatial distribution of black cherry in its native and invasive ranges. <i>Ecology Letters</i> , 2003 , 6, 1046-1050 | 10 | 277 |
| 309 | Plant species and functional group effects on abiotic and microbial soil properties and plant-Boil feedback responses in two grasslands. <i>Journal of Ecology</i> , 2006 , 94, 893-904 | 6 | 269 |
| 308 | Microbial ecology of biological invasions. <i>ISME Journal</i> , 2007 , 1, 28-37 | 11.9 | 265 |
| 307 | The ecological and evolutionary implications of merging different types of networks. <i>Ecology Letters</i> , 2011 , 14, 1170-81 | 10 | 251 |
| 306 | Impacts of soil microbial communities on exotic plant invasions. <i>Trends in Ecology and Evolution</i> , 2010 , 25, 512-9 | 10.9 | 246 |
| 305 | Where, when and how plant-Boil feedback matters in a changing world. <i>Functional Ecology</i> , 2016 , 30, 1109-1121 | 5.6 | 244 |
| 304 | Plant-Boil feedback: experimental approaches, statistical analyses and ecological interpretations. <i>Journal of Ecology</i> , 2010 , 98, 1063-1073 | 6 | 243 |
| 303 | Pampered inside, pestered outside? Differences and similarities between plants growing in controlled conditions and in the field. <i>New Phytologist</i> , 2016 , 212, 838-855 | 9.8 | 242 |
| 302 | Soil inoculation steers restoration of terrestrial ecosystems. <i>Nature Plants</i> , 2016 , 2, 16107 | 11.5 | 219 |
| 301 | Plant species diversity as a driver of early succession in abandoned fields: a multi-site approach. <i>Oecologia</i> , 2000 , 124, 91-99 | 2.9 | 210 |
| 300 | Successful range-expanding plants experience less above-ground and below-ground enemy impact. <i>Nature</i> , 2008 , 456, 946-8 | 50.4 | 207 |
| 299 | Empirical and theoretical challenges in aboveground-belowground ecology. <i>Oecologia</i> , 2009 , 161, 1-14 | 2.9 | 194 |

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| 298 | Root herbivore effects on above-ground herbivore, parasitoid and hyperparasitoid performance via changes in plant quality. <i>Journal of Animal Ecology</i> , 2005 , 74, 1121-1130 | 4.7 | 194 |
| 297 | Fungal biomass development in a chronosequence of land abandonment. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 51-60 | 7.5 | 190 |
| 296 | PLANT DEFENSE BELOWGROUND AND SPATIOTEMPORAL PROCESSES IN NATURAL VEGETATION. <i>Ecology</i> , 2003 , 84, 2269-2280 | 4.6 | 190 |
| 295 | Die-back of <i>Phragmites australis</i> in European wetlands: an overview of the European Research Programme on Reed Die-back and Progression (1993-1994). <i>Aquatic Botany</i> , 1997 , 59, 263-275 | 1.8 | 184 |
| 294 | Plant species diversity, plant biomass and responses of the soil community on abandoned land across Europe: idiosyncrasy or above-belowground time lags. <i>Oikos</i> , 2003 , 103, 45-58 | 4 | 178 |
| 293 | Soil community composition drives aboveground plant-herbivore-parasitoid interactions. <i>Ecology Letters</i> , 2005 , 8, 652-661 | 10 | 174 |
| 292 | Ecological Intensification: Bridging the Gap between Science and Practice. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 154-166 | 10.9 | 173 |
| 291 | Plant community development is affected by nutrients and soil biota. <i>Journal of Ecology</i> , 2004 , 92, 824-834 | | 169 |
| 290 | HOW SOIL-BORNE PATHOGENS MAY AFFECT PLANT COMPETITION. <i>Ecology</i> , 1997 , 78, 1785-1795 | 4.6 | 168 |
| 289 | Accumulation of local pathogens: a new hypothesis to explain exotic plant invasions. <i>Oikos</i> , 2006 , 114, 168-176 | 4 | 164 |
| 288 | Divergent composition but similar function of soil food webs of individual plants: plant species and community effects. <i>Ecology</i> , 2010 , 91, 3027-36 | 4.6 | 163 |
| 287 | Climate Change, Aboveground-Belowground Interactions, and Species' Range Shifts. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2012 , 43, 365-383 | 13.5 | 154 |
| 286 | Root herbivores influence the behaviour of an aboveground parasitoid through changes in plant-volatile signals. <i>Oikos</i> , 2007 , 116, 367-376 | 4 | 145 |
| 285 | Mechanism of control of root-feeding nematodes by mycorrhizal fungi in the dune grass <i>Ammophila arenaria</i> . <i>New Phytologist</i> , 2006 , 169, 829-40 | 9.8 | 142 |
| 284 | Plant-soil feedbacks: role of plant functional group and plant traits. <i>Journal of Ecology</i> , 2016 , 104, 1608-1617 | | 140 |
| 283 | Plant invaders and their novel natural enemies: who is naïve?. <i>Ecology Letters</i> , 2009 , 12, 107-17 | 10 | 137 |
| 282 | Intra- and interspecific plant-soil interactions, soil legacies and priority effects during old-field succession. <i>Journal of Ecology</i> , 2011 , 99, 945-953 | 6 | 134 |
| 281 | Trophic interactions in a changing world. <i>Basic and Applied Ecology</i> , 2004 , 5, 487-494 | 3.2 | 130 |

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|-----|--|------|-----|
| 280 | Effects of Global Changes on Above- and Belowground Biodiversity in Terrestrial Ecosystems: Implications for Ecosystem Functioning. <i>BioScience</i> , 2000 , 50, 1089 | 5.7 | 130 |
| 279 | Reduction of rare soil microbes modifies plant-herbivore interactions. <i>Ecology Letters</i> , 2010 , 13, 292-301 | 10 | 128 |
| 278 | Interactions between aboveground and belowground induced responses against phytophages. <i>Basic and Applied Ecology</i> , 2003 , 4, 63-77 | 3.2 | 127 |
| 277 | Consequences of plant-soil feedbacks in invasion. <i>Journal of Ecology</i> , 2013 , 101, 298-308 | 6 | 119 |
| 276 | Metabolomic analysis of the interaction between plants and herbivores. <i>Metabolomics</i> , 2009 , 5, 150-161 | 4.7 | 117 |
| 275 | Separating the chance effect from other diversity effects in the functioning of plant communities. <i>Oikos</i> , 2001 , 92, 123-134 | 4 | 117 |
| 274 | Small-scale shifting mosaics of two dominant grassland species: the possible role of soil-borne pathogens. <i>Oecologia</i> , 2000 , 125, 45-54 | 2.9 | 117 |
| 273 | A test of the hierarchical model of litter decomposition. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1836-1845 | 2.3 | 116 |
| 272 | Reduced plant-soil feedback of plant species expanding their range as compared to natives. <i>Journal of Ecology</i> , 2007 , 95, 1050-1057 | 6 | 115 |
| 271 | Root herbivory reduces growth and survival of the shoot feeding specialist <i>Pieris rapae</i> on <i>Brassica nigra</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2005 , 115, 161-170 | 2.1 | 115 |
| 270 | Global distribution of earthworm diversity. <i>Science</i> , 2019 , 366, 480-485 | 33.3 | 113 |
| 269 | Climate vs. soil factors in local adaptation of two common plant species. <i>Ecology</i> , 2007 , 88, 424-33 | 4.6 | 110 |
| 268 | Shifts in rhizosphere fungal community during secondary succession following abandonment from agriculture. <i>ISME Journal</i> , 2017 , 11, 2294-2304 | 11.9 | 109 |
| 267 | Impact of foliar herbivory on the development of a root-feeding insect and its parasitoid. <i>Oecologia</i> , 2007 , 152, 257-64 | 2.9 | 105 |
| 266 | Shifts in microbial diversity through land use intensity as drivers of carbon mineralization in soil. <i>Soil Biology and Biochemistry</i> , 2015 , 90, 204-213 | 7.5 | 104 |
| 265 | Invasive plants and their escape from root herbivory: a worldwide comparison of the root-feeding nematode communities of the dune grass <i>Ammophila arenaria</i> in natural and introduced ranges. <i>Biological Invasions</i> , 2005 , 7, 733-746 | 2.7 | 104 |
| 264 | Legacy effects of aboveground-belowground interactions. <i>Ecology Letters</i> , 2012 , 15, 813-21 | 10 | 102 |
| 263 | Soil food web structure during ecosystem development after land abandonment. <i>Applied Soil Ecology</i> , 2008 , 39, 23-34 | 5 | 102 |

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| 262 | Above- and below-ground terpenoid aldehyde induction in cotton, <i>Gossypium herbaceum</i> , following root and leaf injury. <i>Journal of Chemical Ecology</i> , 2004 , 30, 53-67 | 2.7 | 102 |
| 261 | Differential responses of soil bacteria, fungi, archaea and protists to plant species richness and plant functional group identity. <i>Molecular Ecology</i> , 2017 , 26, 4085-4098 | 5.7 | 99 |
| 260 | Relative importance of competition and plant-soil feedback, their synergy, context dependency and implications for coexistence. <i>Ecology Letters</i> , 2018 , 21, 1268-1281 | 10 | 99 |
| 259 | Ecology and evolution of soil nematode chemotaxis. <i>Journal of Chemical Ecology</i> , 2012 , 38, 615-28 | 2.7 | 99 |
| 258 | Control of Plant Species Richness and Zonation of Functional Groups along a Freshwater Flooding Gradient. <i>Oikos</i> , 1999 , 86, 523 | 4 | 99 |
| 257 | Phragmites dieBack: bud and root death, blockages within the aeration and vascular systems and the possible role of phytotoxins. <i>New Phytologist</i> , 1996 , 133, 399-414 | 9.8 | 99 |
| 256 | Climate change effects on plant-soil feedbacks and consequences for biodiversity and functioning of terrestrial ecosystems. <i>Science Advances</i> , 2019 , 5, eaaz1834 | 14.3 | 98 |
| 255 | Biotic soil factors affecting the growth and development of <i>Ammophila arenaria</i> . <i>Oecologia</i> , 1988 , 76, 313-320 | 2.9 | 92 |
| 254 | Linking above- and below-ground biodiversity: abundance and trophic complexity in soil as a response to experimental plant communities on abandoned arable land. <i>Functional Ecology</i> , 2001 , 15, 506-514 | 5.6 | 89 |
| 253 | Interactions between above- and belowground biota: importance for small-scale vegetation mosaics in a grassland ecosystem. <i>Oikos</i> , 2000 , 90, 582-598 | 4 | 89 |
| 252 | Independent variations of plant and soil mixtures reveal soil feedback effects on plant community overyielding. <i>Journal of Ecology</i> , 2013 , 101, 287-297 | 6 | 87 |
| 251 | Crop yield gap and stability in organic and conventional farming systems. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 256, 123-130 | 5.7 | 86 |
| 250 | Virulence of soil-borne pathogens and invasion by <i>Prunus serotina</i> . <i>New Phytologist</i> , 2010 , 186, 484-95 | 9.8 | 86 |
| 249 | Long-term effectiveness of sowing high and low diversity seed mixtures to enhance plant community development on ex-arable fields. <i>Applied Vegetation Science</i> , 2007 , 10, 97-110 | 3.3 | 86 |
| 248 | Root herbivore identity matters in plant-mediated interactions between root and shoot herbivores. <i>Basic and Applied Ecology</i> , 2007 , 8, 491-499 | 3.2 | 86 |
| 247 | Detecting macroecological patterns in bacterial communities across independent studies of global soils. <i>Nature Microbiology</i> , 2018 , 3, 189-196 | 26.6 | 86 |
| 246 | Release from native root herbivores and biotic resistance by soil pathogens in a new habitat both affect the alien <i>Ammophila arenaria</i> in South Africa. <i>Oecologia</i> , 2004 , 141, 502-10 | 2.9 | 85 |
| 245 | Soil feedback and pathogen activity in <i>Prunus serotina</i> throughout its native range. <i>Journal of Ecology</i> , 2005 , 93, 890-898 | 6 | 85 |

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| 244 | Vertebrate herbivores influence soil nematodes by modifying plant communities. <i>Ecology</i> , 2010 , 91, 828-835 | 4.6 | 84 |
| 243 | Development of a negative plant-soil feedback in the expansion zone of the clonal grass <i>Ammophila arenaria</i> following root formation and nematode colonization. <i>Journal of Ecology</i> , 2002 , 90, 978-988 | 6 | 84 |
| 242 | Interactions between invasive plants and insect herbivores: A plea for a multitrophic perspective. <i>Biological Conservation</i> , 2010 , 143, 2251-2259 | 6.2 | 83 |
| 241 | Root herbivore effects on aboveground multitrophic interactions: patterns, processes and mechanisms. <i>Journal of Chemical Ecology</i> , 2012 , 38, 755-67 | 2.7 | 80 |
| 240 | Soil biotic legacy effects of extreme weather events influence plant invasiveness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9835-8 | 11.5 | 80 |
| 239 | Interplay between <i>Senecio jacobaea</i> and plant, soil, and aboveground insect community composition. <i>Ecology</i> , 2006 , 87, 2002-13 | 4.6 | 80 |
| 238 | Soil feedback of exotic savanna grass relates to pathogen absence and mycorrhizal selectivity. <i>Ecology</i> , 2007 , 88, 978-88 | 4.6 | 78 |
| 237 | Successional trajectories of soil nematode and plant communities in a chronosequence of ex-arable lands. <i>Biological Conservation</i> , 2005 , 126, 317-327 | 6.2 | 77 |
| 236 | Modelling C and N mineralisation in soil food webs during secondary succession on ex-arable land. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 251-260 | 7.5 | 72 |
| 235 | Drought Legacy Effects on the Composition of Soil Fungal and Prokaryote Communities. <i>Frontiers in Microbiology</i> , 2018 , 9, 294 | 5.7 | 70 |
| 234 | Ecology: diversity and stability in plant communities. <i>Nature</i> , 2007 , 446, E6-7; discussion E7-8 | 50.4 | 70 |
| 233 | Plant-soil interactions in the expansion and native range of a poleward shifting plant species. <i>Global Change Biology</i> , 2010 , 16, 380-385 | 11.4 | 68 |
| 232 | Physiological Integration of the Clonal Plant <i>Carex arenaria</i> and Its Response to Soil-Borne Pathogens. <i>Oikos</i> , 1998 , 81, 229 | 4 | 66 |
| 231 | Analysis of nematodes and soil-borne fungi from <i>Ammophila arenaria</i> (Marram grass) in Dutch coastal foredunes by multivariate techniques. <i>European Journal of Plant Pathology</i> , 1995 , 101, 149-162 | 2.1 | 66 |
| 230 | Plant-soil feedback induces shifts in biomass allocation in the invasive plant <i>Chromolaena odorata</i> . <i>Journal of Ecology</i> , 2009 , 97, 1281-1290 | 6 | 62 |
| 229 | The plant perceptron connects environment to development. <i>Nature</i> , 2017 , 543, 337-345 | 50.4 | 61 |
| 228 | Challenges and Opportunities for Soil Biodiversity in the Anthropocene. <i>Current Biology</i> , 2019 , 29, R1036-1046 | 6.5 | 61 |
| 227 | Plant parasitic nematodes and spatio-temporal variation in natural vegetation. <i>Applied Soil Ecology</i> , 1998 , 10, 253-262 | 5 | 60 |

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|-----|---|------|----|
| 226 | Redefining plant systems biology: from cell to ecosystem. <i>Trends in Plant Science</i> , 2011 , 16, 183-90 | 13.1 | 59 |
| 225 | Barbarea vulgaris glucosinolate phenotypes differentially affect performance and preference of two different species of lepidopteran herbivores. <i>Journal of Chemical Ecology</i> , 2008 , 34, 121-31 | 2.7 | 59 |
| 224 | Effects of sediment type and water level on biomass production of wetland plant species. <i>Aquatic Botany</i> , 1999 , 64, 151-165 | 1.8 | 59 |
| 223 | The importance of plant-soil interactions, soil nutrients, and plant life history traits for the temporal dynamics of <i>Jacobaea vulgaris</i> in a chronosequence of old-fields. <i>Oikos</i> , 2012 , 121, 1251-1262 | 4 | 58 |
| 222 | Plants know where it hurts: root and shoot jasmonic acid induction elicit differential responses in <i>Brassica oleracea</i> . <i>PLoS ONE</i> , 2013 , 8, e65502 | 3.7 | 58 |
| 221 | Towards an Integration of Biodiversity-Ecosystem Functioning and Food Web Theory to Evaluate Relationships between Multiple Ecosystem Services. <i>Advances in Ecological Research</i> , 2015 , 161-199 | 4.6 | 57 |
| 220 | Novel chemistry of invasive plants: exotic species have more unique metabolomic profiles than native congeners. <i>Ecology and Evolution</i> , 2014 , 4, 2777-86 | 2.8 | 57 |
| 219 | A multitrophic perspective on functioning and evolution of facilitation in plant communities. <i>Journal of Ecology</i> , 2009 , 97, 1131-1138 | 6 | 57 |
| 218 | Above- and below-ground herbivory effects on below-ground plant-fungus interactions and plant-soil feedback responses. <i>Journal of Ecology</i> , 2013 , 101, 325-333 | 6 | 56 |
| 217 | Ecological fits, mis-fits and lotteries involving insect herbivores on the invasive plant, <i>Bunias orientalis</i> . <i>Biological Invasions</i> , 2010 , 12, 3045-3059 | 2.7 | 56 |
| 216 | Earthworms counterbalance the negative effect of microorganisms on plant diversity and enhance the tolerance of grasses to nematodes. <i>Oikos</i> , 2008 , 117, 711-718 | 4 | 56 |
| 215 | Restoration of species-rich grasslands on ex-arable land: Seed addition outweighs soil fertility reduction. <i>Biological Conservation</i> , 2008 , 141, 2208-2217 | 6.2 | 55 |
| 214 | Chemical defense, mycorrhizal colonization and growth responses in <i>Plantago lanceolata</i> L. <i>Oecologia</i> , 2009 , 160, 433-42 | 2.9 | 54 |
| 213 | A Conceptual Framework for Range-Expanding Species that Track Human-Induced Environmental Change. <i>BioScience</i> , 2019 , 69, 908-919 | 5.7 | 53 |
| 212 | Soil inoculation method determines the strength of plant-soil interactions. <i>Soil Biology and Biochemistry</i> , 2012 , 55, 1-6 | 7.5 | 53 |
| 211 | Urban and agricultural soils: conflicts and trade-offs in the optimization of ecosystem services. <i>Urban Ecosystems</i> , 2014 , 17, 239-253 | 2.8 | 52 |
| 210 | Infochemicals structure marine, terrestrial and freshwater food webs: Implications for ecological informatics. <i>Ecological Informatics</i> , 2006 , 1, 23-32 | 4.2 | 51 |
| 209 | Plant-soil feedbacks of exotic plant species across life forms: a meta-analysis. <i>Biological Invasions</i> , 2014 , 16, 2551-2561 | 2.7 | 50 |

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|-----|--|------|----|
| 208 | Are there evolutionary consequences of plant-soil feedbacks along soil gradients?. <i>Functional Ecology</i> , 2014 , 28, 55-64 | 5.6 | 50 |
| 207 | Intraspecific variation in plant defense alters effects of root herbivores on leaf chemistry and aboveground herbivore damage. <i>Journal of Chemical Ecology</i> , 2008 , 34, 1360-7 | 2.7 | 50 |
| 206 | Characterization of soil organisms involved in the degeneration of <i>Ammophila arenaria</i> . <i>Soil Biology and Biochemistry</i> , 1990 , 22, 845-852 | 7.5 | 49 |
| 205 | Community patterns of soil bacteria and nematodes in relation to geographic distance. <i>Soil Biology and Biochemistry</i> , 2012 , 45, 1-7 | 7.5 | 48 |
| 204 | Soil Organism and Plant Introductions in Restoration of Species-Rich Grassland Communities. <i>Restoration Ecology</i> , 2009 , 17, 258-269 | 3.1 | 47 |
| 203 | Spatial heterogeneity of plant-soil feedback affects root interactions and interspecific competition. <i>New Phytologist</i> , 2015 , 207, 830-40 | 9.8 | 45 |
| 202 | Effects of litter on substrate conditions and growth of emergent macrophytes. <i>New Phytologist</i> , 1997 , 135, 527-537 | 9.8 | 45 |
| 201 | Nematode Interactions in Nature: Models for Sustainable Control of Nematode Pests of Crop Plants?. <i>Advances in Agronomy</i> , 2006 , 89, 227-260 | 7.7 | 45 |
| 200 | Plant responses to simultaneous stress of waterlogging and shade: amplified or hierarchical effects?. <i>New Phytologist</i> , 2003 , 157, 281-290 | 9.8 | 45 |
| 199 | Belowground drivers of plant diversity. <i>Science</i> , 2017 , 355, 134-135 | 33.3 | 44 |
| 198 | Combined effects of agrochemicals and ecosystem services on crop yield across Europe. <i>Ecology Letters</i> , 2017 , 20, 1427-1436 | 10 | 44 |
| 197 | Microorganisms and nematodes increase levels of secondary metabolites in roots and root exudates of <i>Plantago lanceolata</i> . <i>Plant and Soil</i> , 2010 , 329, 117-126 | 4.2 | 44 |
| 196 | Seed and Root Endophytic Fungi in a Range Expanding and a Related Plant Species. <i>Frontiers in Microbiology</i> , 2017 , 8, 1645 | 5.7 | 43 |
| 195 | Effects of changes in plant species richness and community traits on carabid assemblages and feeding guilds. <i>Agriculture, Ecosystems and Environment</i> , 2008 , 127, 100-106 | 5.7 | 43 |
| 194 | Enhancement of late successional plants on ex-arable land by soil inoculations. <i>PLoS ONE</i> , 2011 , 6, e21943 | 5.7 | 43 |
| 193 | Integrating quantitative morphological and qualitative molecular methods to analyse soil nematode community responses to plant range expansion. <i>Methods in Ecology and Evolution</i> , 2018 , 9, 1366-1378 | 7.7 | 42 |
| 192 | Low abundant soil bacteria can be metabolically versatile and fast growing. <i>Ecology</i> , 2017 , 98, 555-564 | 4.6 | 42 |
| 191 | Range-expansion effects on the belowground plant microbiome. <i>Nature Ecology and Evolution</i> , 2019 , 3, 604-611 | 12.3 | 41 |

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|-----|--|------|----|
| 190 | Consequences of variation in species diversity in a community of root-feeding herbivores for nematode dynamics and host plant biomass. <i>Oikos</i> , 2005 , 110, 417-427 | 4 | 41 |
| 189 | Climate change and invasion by intracontinental range-expanding exotic plants: the role of biotic interactions. <i>Annals of Botany</i> , 2010 , 105, 843-8 | 4.1 | 40 |
| 188 | Interactions between spatially separated herbivores indirectly alter plant diversity. <i>Ecology Letters</i> , 2004 , 8, 30-37 | 10 | 40 |
| 187 | Harmful soil organisms in coastal foredunes involved in degeneration of <i>Ammophila arenaria</i> and <i>Calammophila baltica</i> . <i>Canadian Journal of Botany</i> , 1990 , 68, 1560-1568 | | 40 |
| 186 | Root traits and belowground herbivores relate to plant-soil feedback variation among congeners. <i>Nature Communications</i> , 2019 , 10, 1564 | 17.4 | 39 |
| 185 | Nitrogen addition and warming independently influence the belowground micro-food web in a temperate steppe. <i>PLoS ONE</i> , 2013 , 8, e60441 | 3.7 | 39 |
| 184 | Plant-soil feedback of native and range-expanding plant species is insensitive to temperature. <i>Oecologia</i> , 2010 , 162, 1059-69 | 2.9 | 38 |
| 183 | Microbial invasions in terrestrial ecosystems. <i>Nature Reviews Microbiology</i> , 2019 , 17, 621-631 | 22.2 | 37 |
| 182 | Influence of presence and spatial arrangement of belowground insects on host-plant selection of aboveground insects: a field study. <i>Ecological Entomology</i> , 2009 , 34, 339-345 | 2.1 | 37 |
| 181 | Influences of space, soil, nematodes and plants on microbial community composition of chalk grassland soils. <i>Environmental Microbiology</i> , 2010 , 12, 2096-106 | 5.2 | 37 |
| 180 | Reciprocal effects of litter from exotic and congeneric native plant species via soil nutrients. <i>PLoS ONE</i> , 2012 , 7, e31596 | 3.7 | 37 |
| 179 | Towards an integrative understanding of soil biodiversity. <i>Biological Reviews</i> , 2020 , 95, 350-364 | 13.5 | 37 |
| 178 | Grazing-induced changes in plant-soil feedback alter plant biomass allocation. <i>Oikos</i> , 2014 , 123, 800-806 | 4 | 36 |
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| 175 | Single introductions of soil biota and plants generate long-term legacies in soil and plant community assembly. <i>Ecology Letters</i> , 2019 , 22, 1145-1151 | 10 | 35 |
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| 173 | Context dependency and saturating effects of loss of rare soil microbes on plant productivity. <i>Frontiers in Plant Science</i> , 2015 , 6, 485 | 6.2 | 35 |

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| 170 | Long-term effectiveness of sowing high and low diversity seed mixtures to enhance plant community development on ex-arable fields. <i>Applied Vegetation Science</i> , 2007 , 10, 97 | 3.3 | 35 |
| 169 | Possible mechanisms underlying abundance and diversity responses of nematode communities to plant diversity. <i>Ecosphere</i> , 2017 , 8, e01719 | 3.1 | 34 |
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| 165 | Plant-feeding nematodes in coastal sand dunes: occurrence, host specificity and effects on plant growth. <i>Plant and Soil</i> , 2015 , 397, 17-30 | 4.2 | 33 |
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| 152 | Variation in home-field advantage and ability in leaf litter decomposition across successional gradients. <i>Functional Ecology</i> , 2018 , 32, 1563-1574 | 5.6 | 28 |
| 151 | Effects of root decomposition on plant-soil feedback of early- and mid-successional plant species. <i>New Phytologist</i> , 2016 , 212, 220-31 | 9.8 | 28 |
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| 142 | Competition increases sensitivity of wheat (<i>Triticum aestivum</i>) to biotic plant-soil feedback. <i>PLoS ONE</i> , 2013 , 8, e66085 | 3.7 | 26 |
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| 140 | Removal of soil biota alters soil feedback effects on plant growth and defense chemistry. <i>New Phytologist</i> , 2019 , 221, 1478-1491 | 9.8 | 26 |
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| 131 | Spatial distribution of soil nematodes relates to soil organic matter and life strategy. <i>Soil Biology and Biochemistry</i> , 2019 , 136, 107542 | 7.5 | 23 |
| 130 | Soil handling methods should be selected based on research questions and goals. <i>New Phytologist</i> , 2017 , 216, 18-23 | 9.8 | 23 |
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| 120 | Rapid identification of cyst (<i>Heterodera</i> spp., <i>Globodera</i> spp.) and root-knot (<i>Meloidogyne</i> spp.) nematodes on the basis of ITS2 sequence variation detected by PCR-single-strand conformational polymorphism (PCR-SSCP) in cultures and field samples. <i>Molecular Ecology</i> , 2000 , 9, 1223-32 | 5.7 | 22 |
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| 106 | Cultivation-success of rare soil bacteria is not influenced by incubation time and growth medium. <i>PLoS ONE</i> , 2019 , 14, e0210073 | 3.7 | 17 |
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| 23 | Soil pathogen-aphid interactions under differences in soil organic matter and mineral fertilizer. <i>PLoS ONE</i> , 2017 , 12, e0179695 | 3.7 | 2 |
| 22 | No paradox for invasive plants. <i>Science</i> , 2009 , 325, 814 | 33.3 | 2 |
| 21 | Microbial Ecology and Nematode Control in Natural Ecosystems 2011 , 39-64 | | 2 |
| 20 | Idiosyncrasy in ecology [what's in a word?]. <i>Frontiers in Ecology and the Environment</i> , 2011 , 9, 431-433 | 5.5 | 2 |
| 19 | OSiD: opening the conceptual design of biobased processes to a context-sensitive sustainability analysis. <i>Biofuels, Bioproducts and Biorefining</i> , 2021 , 15, 961 | 5.3 | 2 |
| 18 | Resilience of rhizosphere microbial predators and their prey communities after an extreme heat event. <i>Functional Ecology</i> , 2021 , 35, 216-225 | 5.6 | 2 |
| 17 | Soil Biodiversity and Ecosystem Functioning 2017 , 119-140 | | 1 |
| 16 | Belowground Consequences of Intracontinental Range-Expanding Plants and Related Natives in Novel Environments. <i>Frontiers in Microbiology</i> , 2019 , 10, 505 | 5.7 | 1 |
| 15 | All mycorrhizas are not equal. <i>Trends in Ecology and Evolution</i> , 2001 , 16, 672-673 | 10.9 | 1 |
| 14 | Plant population and soil origin effects on rhizosphere nematode community composition of a range-expanding plant species and a native congener. <i>Oecologia</i> , 2020 , 194, 237-250 | 2.9 | 1 |
| 13 | Short-term temperature history affects mineralization of fresh litter and extant soil organic matter, irrespective of agricultural management. <i>Soil Biology and Biochemistry</i> , 2020 , 150, 107985 | 7.5 | 1 |
| 12 | Soil predator loss alters aboveground stoichiometry in a native but not in a related range-expanding plant when exposed to periodic heat waves. <i>Soil Biology and Biochemistry</i> , 2020 , 150, 107999 | 7.5 | 1 |
| 11 | Disentangling nematode and arbuscular mycorrhizal fungal community effect on the growth of range-expanding <i>Centaurea stoebe</i> in original and new range soil. <i>Plant and Soil</i> , 2021 , 466, 207-221 | 4.2 | 1 |

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| 10 | Within-patch and edge microclimates vary over a growing season and are amplified during a heatwave: Consequences for ectothermic insects. <i>Journal of Thermal Biology</i> , 2021 , 99, 103006 | 2.9 | 1 |
| 9 | Long-term recovery of above- and below-ground interactions in restored grasslands after topsoil removal and seed addition. <i>Journal of Applied Ecology</i> , | 5.8 | 1 |
| 8 | Plant-soil feedback as a driver of spatial structure in ecosystems: A commentary on "Belowground feedbacks as drivers of spatial self-organization and community assembly" by Inderjit, Ragan M. Callaway and Ehud Meron.. <i>Physics of Life Reviews</i> , 2022 , 40, 6-14 | 2.1 | 0 |
| 7 | Fungal root endophytes influence plants in a species-specific manner that depends on plant's growth stage. <i>Journal of Ecology</i> , 2021 , 109, 1618-1632 | 6 | 0 |
| 6 | Severance of arbuscular mycorrhizal fungal mycelial networks in restoration grasslands enhances seedling biomass. <i>New Phytologist</i> , 2021 , 232, 753-761 | 9.8 | 0 |
| 5 | 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 | 7.5 | 0 |
| 4 | Greenhouse gas (CO ₂ , CH ₄ , and N ₂ O) emissions after abandonment of agriculture. <i>Biology and Fertility of Soils</i> , ¹ | 6.1 | 0 |
| 3 | Reply to comment by Van de Ven et al. on our paper "Crop yield gap and stability in conventional and organic systems" <i>Agriculture, Ecosystems and Environment</i> , 2018 , 267, 83-86 | 5.7 | |
| 2 | Ecosystem Rates of Transformation Matter--Response. <i>Science</i> , 2011 , 333, 937-937 | 33.3 | |
| 1 | Ecosystem Services Provided by Soil Life 2016 , 415-420 | | |