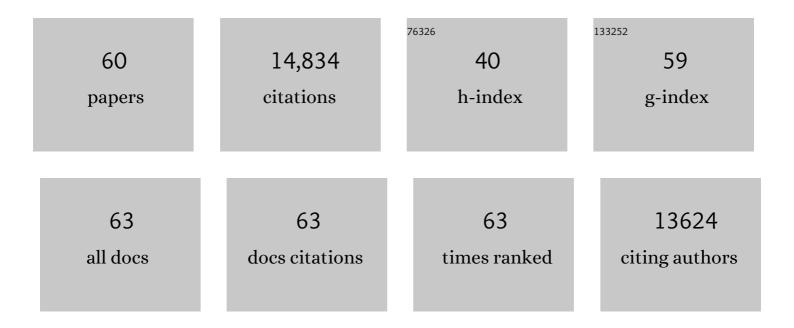
## **Catherine Roumet**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7813254/publications.pdf Version: 2024-02-01



| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Dissecting fine root diameter distribution at the community level captures root morphological diversity. Oikos, 2023, 2023, .  | 2.7  | 3         |
| 2  | Vegetation creates microenvironments that influence soil microbial activity and functional diversity along an elevation gradient. Soil Biology and Biochemistry, 2022, 165, 108485.  | 8.8  | 20        |
| 3  | 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       |
| 4  | Patterns in intraspecific variation in root traits are speciesâ€specific along an elevation gradient.<br>Functional Ecology, 2021, 35, 342-356.  | 3.6  | 68        |
| 5  | Global root traits (GRooT) database. Global Ecology and Biogeography, 2021, 30, 25-37.   | 5.8  | 90        |
| 6  | Shifts in soil and plant functional diversity along an altitudinal gradient in the French Alps. BMC<br>Research Notes, 2021, 14, 54.   | 1.4  | 11        |
| 7  | 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        |
| 8  | Aboveground-trait variations in 11 (sub)alpine plants along a 1000-m elevation gradient in tropical<br>Mexico. Alpine Botany, 2021, 131, 187.  | 2.4  | 13        |
| 9  | An integrated framework of plant form and function: the belowground perspective. New Phytologist, 2021, 232, 42-59.  | 7.3  | 153       |
| 10 | Variation in biomass allocation and root functional parameters in response to fire history in Brazilian savannas. Journal of Ecology, 2021, 109, 4143-4157.  | 4.0  | 14        |
| 11 | 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       |
| 12 | Pathways to persistence: plant root traits alter carbon accumulation in different soil carbon pools.<br>Plant and Soil, 2020, 452, 457-478.  | 3.7  | 19        |
| 13 | The fungal collaboration gradient dominates the root economics space in plants. Science Advances, 2020, 6, .   | 10.3 | 377       |
| 14 | Inter- and intra-specific trait shifts among sites differing in drought conditions at the north western<br>edge of the Mediterranean Region. Flora: Morphology, Distribution, Functional Ecology of Plants,<br>2019, 254, 147-160. | 1.2  | 22        |
| 15 | Coping with drought: root trait variability within the perennial grass Dactylis glomerata captures a trade-off between dehydration avoidance and dehydration tolerance. Plant and Soil, 2019, 434, 327-342.                        | 3.7  | 37        |
| 16 | Root traits of herbaceous crops: Preâ€adaptation to cultivation or evolution under domestication?.<br>Functional Ecology, 2019, 33, 273-285.   | 3.6  | 29        |
| 17 | Two dimensions define the variation of fine root traits across plant communities under the joint influence of ecological succession and annual mowing. Journal of Ecology, 2018, 106, 2031-2042.                                   | 4.0  | 60        |
| 18 | Frontiers in root ecology: recent advances and future challenges. Plant and Soil, 2018, 424, 1-9.  | 3.7  | 78        |

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|----|--|-----|-----------|
| 19 | The root of the matter: Linking root traits and soil organic matter stabilization processes. Soil<br>Biology and Biochemistry, 2018, 120, 246-259.   | 8.8 | 219       |
| 20 | Soil aggregate stability in Mediterranean and tropical agro-ecosystems: effect of plant roots and soil characteristics. Plant and Soil, 2018, 424, 303-317.  | 3.7 | 94        |
| 21 | Leaf carbon and oxygen isotopes are coordinated with the leaf economics spectrum in Mediterranean rangeland species. Functional Ecology, 2018, 32, 612-625.  | 3.6 | 49        |
| 22 | Species and root traits impact macroaggregation in the rhizospheric soil of a Mediterranean common garden experiment. Plant and Soil, 2018, 424, 289-302.  | 3.7 | 36        |
| 23 | Decomposition rates of fine roots from three herbaceous perennial species: combined effect of root mixture composition and living plant community. Plant and Soil, 2017, 415, 359-372.   | 3.7 | 16        |
| 24 | A global Fineâ€Root Ecology Database to address belowâ€ground challenges in plant ecology. New<br>Phytologist, 2017, 215, 15-26.   | 7.3 | 250       |
| 25 | Climate, soil and plant functional types as drivers of global fineâ€root trait variation. Journal of Ecology, 2017, 105, 1182-1196.  | 4.0 | 234       |
| 26 | Increasing soil carbon storage: mechanisms, effects of agricultural practices and proxies. A review.<br>Agronomy for Sustainable Development, 2017, 37, 1.   | 5.3 | 292       |
| 27 | Root traits are related to plant waterâ€use among rangeland Mediterranean species. Functional<br>Ecology, 2017, 31, 1700-1709.   | 3.6 | 71        |
| 28 | Sampling roots to capture plant and soil functions. Functional Ecology, 2017, 31, 1506-1518.   | 3.6 | 150       |
| 29 | A worldview of root traits: the influence of ancestry, growth form, climate and mycorrhizal association on the functional trait variation of fineâ€root tissues in seed plants. New Phytologist, 2017, 215, 1562-1573.                         | 7.3 | 216       |
| 30 | Does water shortage generate water stress? An ecohydrological approach across Mediterranean plant communities. Functional Ecology, 2017, 31, 1325-1335.  | 3.6 | 14        |
| 31 | Root structure–function relationships in 74 species: evidence of a root economics spectrum related to carbon economy. New Phytologist, 2016, 210, 815-826.   | 7.3 | 358       |
| 32 | Root functional parameters predict fine root decomposability at the community level. Journal of Ecology, 2016, 104, 725-733.   | 4.0 | 75        |
| 33 | Functional responses of Mediterranean plant communities to soil resource heterogeneity: a<br>mycorrhizal traitâ€based approach. Journal of Vegetation Science, 2016, 27, 1243-1253.  | 2.2 | 25        |
| 34 | Root biomass, turnover and net primary productivity of a coffee agroforestry system in Costa Rica:<br>effects of soil depth, shade trees, distance to row and coffee age. Annals of Botany, 2016, 118, 833-851.                                | 2.9 | 45        |
| 35 | Mean root trait more than root trait diversity determines drought resilience in native and cultivated Mediterranean grass mixtures. Agriculture, Ecosystems and Environment, 2016, 231, 122-132.   | 5.3 | 51        |
| 36 | Increase in soil aggregate stability along a Mediterranean successional gradient in severely eroded<br>gully bed ecosystems: combined effects of soil, root traits and plant community characteristics. Plant<br>and Soil, 2016, 398, 121-137. | 3.7 | 144       |

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|----|--|------|-----------|
| 37 | Root functional parameters along a landâ€use gradient: evidence of a communityâ€level economics<br>spectrum. Journal of Ecology, 2015, 103, 361-373.   | 4.0  | 166       |
| 38 | Measurement of fine root tissue density: a comparison of three methods reveals the potential of root dry matter content. Plant and Soil, 2014, 374, 299-313.   | 3.7  | 74        |
| 39 | Are traitâ€based species rankings consistent across data sets and spatial scales?. Journal of Vegetation<br>Science, 2014, 25, 235-247.  | 2.2  | 127       |
| 40 | Tradeoffs between functional strategies for resource-use and drought-survival in Mediterranean rangeland species. Environmental and Experimental Botany, 2013, 87, 126-136.  | 4.2  | 91        |
| 41 | Plant traits and decomposition: are the relationships for roots comparable to those for leaves?.<br>Annals of Botany, 2012, 109, 463-472.  | 2.9  | 123       |
| 42 | Evidence for a â€~plant community economics spectrum' driven by nutrient and water limitations in a<br>Mediterranean rangeland of southern France. Journal of Ecology, 2012, 100, 1315-1327.   | 4.0  | 154       |
| 43 | Litter quality and decomposability of species from a Mediterranean succession depend on leaf traits but not on nitrogen supply. Annals of Botany, 2009, 104, 1151-1161.  | 2.9  | 92        |
| 44 | Competition, traits and resource depletion in plant communities. Oecologia, 2009, 160, 747-755.  | 2.0  | 155       |
| 45 | Allocation strategies and seed traits are hardly affected by nitrogen supply in 18 species differing in successional status. Perspectives in Plant Ecology, Evolution and Systematics, 2009, 11, 267-283.                                  | 2.7  | 23        |
| 46 | Root traits and taxonomic affiliation of nine herbaceous species grown in glasshouse conditions.<br>Plant and Soil, 2008, 312, 69-83.  | 3.7  | 45        |
| 47 | Assessing the Effects of Land-use Change on Plant Traits, Communities and Ecosystem Functioning in<br>Grasslands: A Standardized Methodology and Lessons from an Application to 11 European Sites. Annals<br>of Botany, 2007, 99, 967-985. | 2.9  | 453       |
| 48 | Relating root structure and anatomy to whole-plant functioning in 14 herbaceous Mediterranean species. New Phytologist, 2007, 173, 313-321.  | 7.3  | 87        |
| 49 | Plant Functional Types: Are We Getting Any Closer to the Holy Grail?. , 2007, , 149-164.   |      | 237       |
| 50 | Suites of root traits differ between annual and perennial species growing in the field. New<br>Phytologist, 2006, 170, 357-368.  | 7.3  | 273       |
| 51 | Quantifying species composition in root mixtures using two methods: nearâ€infrared reflectance spectroscopy and plant wax markers. New Phytologist, 2006, 170, 631-638.  | 7.3  | 52        |
| 52 | Specific Leaf Area and Dry Matter Content Estimate Thickness in Laminar Leaves. Annals of Botany, 2005, 96, 1129-1136.   | 2.9  | 374       |
| 53 | The worldwide leaf economics spectrum. Nature, 2004, 428, 821-827.   | 27.8 | 6,489     |
| 54 | PLANT FUNCTIONAL MARKERS CAPTURE ECOSYSTEM PROPERTIES DURING SECONDARY SUCCESSION.<br>Ecology, 2004, 85, 2630-2637.  | 3.2  | 1,678     |

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|----|--|-----|-----------|
| 55 | Leaf life span, dynamics and construction cost of species from Mediterranean oldâ€fields differing in successional status. New Phytologist, 2003, 159, 213-228.                            | 7.3 | 106       |
| 56 | Intraspecific variability of phenolic concentrations and their responses to elevated CO2 in two mediterranean perennial grasses. Environmental and Experimental Botany, 2002, 47, 205-216. | 4.2 | 28        |
| 57 | Genotypic variation in the response of two perennial grass species to elevated carbon dioxide.<br>Oecologia, 2002, 133, 342-348.   | 2.0 | 21        |
| 58 | Short and long-term responses of whole-plant gas exchange to elevated CO2 in four herbaceous species. Environmental and Experimental Botany, 2000, 43, 155-169.                            | 4.2 | 25        |
| 59 | Leaf structure and chemical composition as affected by elevated CO2: genotypic responses of two perennial grasses. New Phytologist, 1999, 143, 73-81.                                      | 7.3 | 51        |
| 60 | Inducible nitrate reductase of rice plants as a possible indicator for nitrification in water-logged paddy soils. Plant and Soil, 1989, 116, 197-206.                                      | 3.7 | 12        |