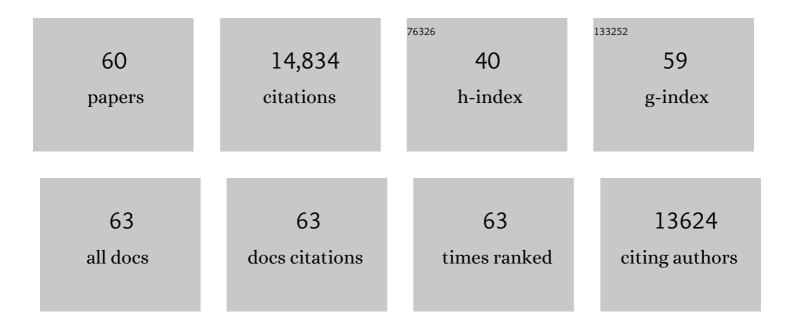
Catherine Roumet

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	The worldwide leaf economics spectrum. Nature, 2004, 428, 821-827.	27.8	6,489
2	PLANT FUNCTIONAL MARKERS CAPTURE ECOSYSTEM PROPERTIES DURING SECONDARY SUCCESSION. Ecology, 2004, 85, 2630-2637.	3.2	1,678
3	Assessing the Effects of Land-use Change on Plant Traits, Communities and Ecosystem Functioning in Grasslands: A Standardized Methodology and Lessons from an Application to 11 European Sites. Annals of Botany, 2007, 99, 967-985.	2.9	453
4	The fungal collaboration gradient dominates the root economics space in plants. Science Advances, 2020, 6, .	10.3	377
5	Specific Leaf Area and Dry Matter Content Estimate Thickness in Laminar Leaves. Annals of Botany, 2005, 96, 1129-1136.	2.9	374
6	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
7	Increasing soil carbon storage: mechanisms, effects of agricultural practices and proxies. A review. Agronomy for Sustainable Development, 2017, 37, 1.	5.3	292
8	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
9	Suites of root traits differ between annual and perennial species growing in the field. New Phytologist, 2006, 170, 357-368.	7.3	273
10	A global Fineâ€Root Ecology Database to address belowâ€ground challenges in plant ecology. New Phytologist, 2017, 215, 15-26.	7.3	250
11	Plant Functional Types: Are We Getting Any Closer to the Holy Grail?. , 2007, , 149-164.		237
12	Climate, soil and plant functional types as drivers of global fineâ€root trait variation. Journal of Ecology, 2017, 105, 1182-1196.	4.0	234
13	The root of the matter: Linking root traits and soil organic matter stabilization processes. Soil Biology and Biochemistry, 2018, 120, 246-259.	8.8	219
14	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
15	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
16	Root functional parameters along a landâ€use gradient: evidence of a communityâ€level economics spectrum. Journal of Ecology, 2015, 103, 361-373.	4.0	166
17	Competition, traits and resource depletion in plant communities. Oecologia, 2009, 160, 747-755.	2.0	155
18	Evidence for a â€~plant community economics spectrum' driven by nutrient and water limitations in a Mediterranean rangeland of southern France. Journal of Ecology, 2012, 100, 1315-1327.	4.0	154

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19	An integrated framework of plant form and function: the belowground perspective. New Phytologist, 2021, 232, 42-59.	7.3	153
20	Sampling roots to capture plant and soil functions. Functional Ecology, 2017, 31, 1506-1518.	3.6	150
21	Increase in soil aggregate stability along a Mediterranean successional gradient in severely eroded gully bed ecosystems: combined effects of soil, root traits and plant community characteristics. Plant and Soil, 2016, 398, 121-137.	3.7	144
22	Are traitâ€based species rankings consistent across data sets and spatial scales?. Journal of Vegetation Science, 2014, 25, 235-247.	2.2	127
23	Plant traits and decomposition: are the relationships for roots comparable to those for leaves?. Annals of Botany, 2012, 109, 463-472.	2.9	123
24	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
25	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
26	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
27	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
28	Global root traits (GRooT) database. Global Ecology and Biogeography, 2021, 30, 25-37.	5.8	90
29	Relating root structure and anatomy to whole-plant functioning in 14 herbaceous Mediterranean species. New Phytologist, 2007, 173, 313-321.	7.3	87
30	Frontiers in root ecology: recent advances and future challenges. Plant and Soil, 2018, 424, 1-9.	3.7	78
31	Root functional parameters predict fine root decomposability at the community level. Journal of Ecology, 2016, 104, 725-733.	4.0	75
32	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
33	Root traits are related to plant waterâ€use among rangeland Mediterranean species. Functional Ecology, 2017, 31, 1700-1709.	3.6	71
34	Patterns in intraspecific variation in root traits are speciesâ€specific along an elevation gradient. Functional Ecology, 2021, 35, 342-356.	3.6	68
35	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
36	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

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#	Article	IF	CITATIONS
37	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
38	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
39	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
40	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
41	Root traits and taxonomic affiliation of nine herbaceous species grown in glasshouse conditions. Plant and Soil, 2008, 312, 69-83.	3.7	45
42	Root biomass, turnover and net primary productivity of a coffee agroforestry system in Costa Rica: effects of soil depth, shade trees, distance to row and coffee age. Annals of Botany, 2016, 118, 833-851.	2.9	45
43	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
44	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
45	Root traits of herbaceous crops: Preâ€adaptation to cultivation or evolution under domestication?. Functional Ecology, 2019, 33, 273-285.	3.6	29
46	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
47	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
48	Functional responses of Mediterranean plant communities to soil resource heterogeneity: a mycorrhizal traitâ€based approach. Journal of Vegetation Science, 2016, 27, 1243-1253.	2.2	25
49	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
50	Inter- and intra-specific trait shifts among sites differing in drought conditions at the north western edge of the Mediterranean Region. Flora: Morphology, Distribution, Functional Ecology of Plants, 2019, 254, 147-160.	1.2	22
51	Genotypic variation in the response of two perennial grass species to elevated carbon dioxide. Oecologia, 2002, 133, 342-348.	2.0	21
52	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
53	Pathways to persistence: plant root traits alter carbon accumulation in different soil carbon pools. Plant and Soil, 2020, 452, 457-478.	3.7	19
54	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

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55	Does water shortage generate water stress? An ecohydrological approach across Mediterranean plant communities. Functional Ecology, 2017, 31, 1325-1335.	3.6	14
56	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
57	Aboveground-trait variations in 11 (sub)alpine plants along a 1000-m elevation gradient in tropical Mexico. Alpine Botany, 2021, 131, 187.	2.4	13
58	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
59	Shifts in soil and plant functional diversity along an altitudinal gradient in the French Alps. BMC Research Notes, 2021, 14, 54.	1.4	11
60	Dissecting fine root diameter distribution at the community level captures root morphological diversity. Oikos, 2023, 2023, .	2.7	3