

# Catherine Collet

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,586  
citations

279798

23  
h-index

315739

38  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2111  
citing authors

#	ARTICLE	IF	CITATIONS
1	Root Typ: a generic model to depict and analyse the root system architecture. <i>Plant and Soil</i> , 2004, 258, 103-119.	3.7	191
2	Beech regeneration research: From ecological to silvicultural aspects. <i>Forest Ecology and Management</i> , 2010, 259, 2172-2182.	3.2	171
3	Effects of canopy opening on height and diameter growth in naturally regenerated beech seedlings. <i>Annals of Forest Science</i> , 2001, 58, 127-134.	2.0	122
4	Knowledge gaps about mixed forests: What do European forest managers want to know and what answers can science provide?. <i>Forest Ecology and Management</i> , 2018, 407, 106-115.	3.2	90
5	When should exotic forest plantation tree species be considered as an invasive threat and how should we treat them?. <i>Biological Invasions</i> , 2012, 14, 1765-1778.	2.4	88
6	Terrestrial laser scanning reveals differences in crown structure of <i>Fagus sylvatica</i> in mixed vs. pure European forests. <i>Forest Ecology and Management</i> , 2017, 405, 381-390.	3.2	80
7	Species-specific and generic biomass equations for seedlings and saplings of European tree species. <i>European Journal of Forest Research</i> , 2016, 135, 313-329.	2.5	67
8	Root System Development of Oak Seedlings Analysed using an Architectural Model. Effects of Competition with Grass. <i>Plant and Soil</i> , 2006, 279, 367-383.	3.7	46
9	Can species distribution models be used to describe plant abundance patterns?. <i>Ecography</i> , 2013, 36, 665-674.	4.5	46
10	Effect of two forest grasses differing in their growth dynamics on the water relations and the growth of <i>Quercus petraea</i> seedlings. <i>Canadian Journal of Botany</i> , 1996, 74, 1562-1571.	1.1	45
11	Radial growth resilience of sessile oak after drought is affected by site water status, stand density, and social status. <i>Trees - Structure and Function</i> , 2017, 31, 517-529.	1.9	44
12	Gap partitioning among temperate tree species across a regional soil gradient in windstorm-disturbed forests. <i>Forest Ecology and Management</i> , 2010, 260, 146-154.	3.2	43
13	Crown responses to neighbor density and species identity in a young mixed deciduous stand. <i>Trees - Structure and Function</i> , 2014, 28, 1751-1765.	1.9	39
14	Response to canopy opening does not act as a filter to <i>Fagus sylvatica</i> and <i>Acer sp.</i> advance regeneration in a mixed temperate forest. <i>Annals of Forest Science</i> , 2010, 67, 105-105.	2.0	38
15	Effects of canopy opening on the morphology and anatomy of naturally regenerated beech seedlings. <i>Trees - Structure and Function</i> , 2002, 16, 291-298.	1.9	37
16	Growth and posture control strategies in <i>Fagus sylvatica</i> and <i>Acer pseudoplatanus</i> saplings in response to canopy disturbance. <i>Annals of Botany</i> , 2011, 107, 1345-1353.	2.9	36
17	Growth partitioning in forest stands is affected by stand density and summer drought in sessile oak and Douglas-fir. <i>Forest Ecology and Management</i> , 2014, 334, 358-368.	3.2	32
18	Effects of interspecific competition on periodic shoot elongation in oak seedlings. <i>Canadian Journal of Forest Research</i> , 1996, 26, 1934-1942.	1.7	31

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19	Reconstructing crown shape from stem diameter and tree position to supply light models. I. Algorithms and comparison of light simulations. <i>Annals of Forest Science</i> , 2005, 62, 645-657.	2.0	30
20	Estimating light climate in forest with the convex densiometer: operator effect, geometry and relation to diffuse light. <i>European Journal of Forest Research</i> , 2014, 133, 101-110.	2.5	29
21	Windstorm-induced canopy openings accelerate temperate forest adaptation to global warming. <i>Global Ecology and Biogeography</i> , 2020, 29, 2067-2077.	5.8	28
22	Modifying the microclimate around young oaks through vegetation manipulation: Effects on seedling growth and branching. <i>Forest Ecology and Management</i> , 1998, 110, 249-262.	3.2	25
23	Light and competition gradients fail to explain the coexistence of shade-tolerant <i>Fagus sylvatica</i> and shade-intermediate <i>Quercus petraea</i> seedlings. <i>Annals of Botany</i> , 2013, 112, 1421-1430.	2.9	25
24	Abundance response of western European forest species along canopy openness and soil pH gradients. <i>Forest Ecology and Management</i> , 2011, 262, 1483-1490.	3.2	23
25	Response of tree growth and species coexistence to density and species evenness in a young forest plantation with two competing species. <i>Annals of Botany</i> , 2014, 113, 711-719.	2.9	22
26	Tree species identity drives soil organic carbon storage more than species mixing in major two-species mixtures (pine, oak, beech) in Europe. <i>Forest Ecology and Management</i> , 2021, 481, 118752.	3.2	20
27	Canopy openness and exclusion of wild ungulates act synergistically to improve oak natural regeneration. <i>Forest Ecology and Management</i> , 2021, 487, 118976.	3.2	17
28	Coexistence, association and competitive ability of <i>Quercus petraea</i> and <i>Quercus robur</i> seedlings in naturally regenerated mixed stands. <i>Forest Ecology and Management</i> , 2017, 390, 36-46.	3.2	15
29	Growth dynamics and water uptake of two forest grasses differing in their growth strategy and potentially competing with forest seedlings. <i>Canadian Journal of Botany</i> , 1996, 74, 1555-1561.	1.1	13
30	Examination of aboveground attributes to predict belowground biomass of young trees. <i>Forest Ecology and Management</i> , 2022, 505, 119942.	3.2	12
31	How does oak mast seeding affect the feeding behavior of sympatric red and roe deer?. <i>Basic and Applied Ecology</i> , 2020, 47, 83-94.	2.7	10
32	When do dendrometric rules fail? Insights from 20 years of experimental thinnings on sessile oak in the GIS Coop network. <i>Forest Ecology and Management</i> , 2019, 433, 276-286.	3.2	9
33	Time shifts in height and diameter growth allocation in understory European beech ( <i>Fagus sylvatica</i> ) Tj ETQq1 1 0.784314 rgBT /Over	1.9	8
34	Manipulating seed availability, plant competition and litter accumulation by soil preparation and canopy opening to ensure regeneration success in temperate low-mountain forest stands. <i>European Journal of Forest Research</i> , 2015, 134, 247-259.	2.5	6
35	Aboveground overyielding in a mixed temperate forest is not explained by belowground processes. <i>Oecologia</i> , 2018, 188, 1183-1193.	2.0	5
36	Lack of effect of admixture proportion and tree density on water acquisition depth for European beech ( <i>Fagus sylvatica</i> L.) and sycamore maple ( <i>Acer pseudoplatanus</i> L.). <i>Annals of Forest Science</i> , 2020, 77, 1.	2.0	5

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37	Cultivation profile: a visual evaluation method of soil structure adapted to the analysis of the impacts of mechanical site preparation in forest plantations. <i>European Journal of Forest Research</i> , 2021, 140, 65-76.	2.5	5
38	The distribution of carbon stocks between tree woody biomass and soil differs between Scots pine and broadleaved species (beech, oak) in European forests. <i>European Journal of Forest Research</i> , 2022, 141, 467-480.	2.5	5
39	Tree size and local neighbourhood affect foliar nutrient content in a mixed plantation of beech ( <i>Fagus sylvatica</i> ) and maple ( <i>Acer pseudoplatanus</i> ). <i>Forest Ecology and Management</i> , 2017, 400, 159-172.	3.2	4
40	Biomechanical control of beech pole verticality ( <i>Fagus sylvatica</i> ) before and after thinning: theoretical modelling and ground truth data using terrestrial LiDAR. <i>American Journal of Botany</i> , 2019, 106, 187-198.	1.7	4
41	Effects of different site preparation methods on the root development of planted <i>Quercus petraea</i> and <i>Pinus nigra</i> . <i>New Forests</i> , 2021, 52, 17-30.	1.7	4
42	Mixing increases drought exposure through a faster growth in beech, but not in oak. <i>Forest Ecology and Management</i> , 2021, 479, 118593.	3.2	4
43	Mixing has limited impacts on the foliar nutrition of European beech and Scots pine trees across Europe. <i>Forest Ecology and Management</i> , 2021, 479, 118551.	3.2	4
44	Beech and hornbeam dominate oak 20 years after the creation of storm-induced gaps. <i>Forest Ecology and Management</i> , 2022, 503, 119758.	3.2	3
45	Annotation data about multi criteria assessment methods used in the agri-food research: The french national institute for agricultural research (INRA) experience. <i>Data in Brief</i> , 2019, 25, 104204.	1.0	2
46	Do trait responses to simulated browsing in <i>Quercus robur</i> saplings affect their attractiveness to <i>Capreolus capreolus</i> the following year?. <i>Environmental and Experimental Botany</i> , 2021, , 104743.	4.2	2