Olivier Bouriaud

List of Publications by Year
in descending order

76 papers	6,993 citations	108046 37 h-index	84171 75 g-index
79 all docs	79 docs citations	79 times ranked	9290 citing authors

#	Article	IF	Citations
1	Growing stock monitoring by European National Forest Inventories: Historical origins, current methods and harmonisation. Forest Ecology and Management, 2022, 505, 119868.	1.4	34
2	The number of tree species on Earth. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	86
3	The role of wood harvest from sustainably managed forests in the carbon cycle. Annals of Forest Science, 2022, 79, .	0.8	11
4	Offering the appetite for the monitoring of European forests a diversified diet. Annals of Forest Science, 2022, 79, .	0.8	7
5	Management or Climate and Which One Has the Greatest Impact on Forest Soil's Protective Value? A Case Study in Romanian Mountains. Forests, 2022, 13, 916.	0.9	2
6	Challenging the link between functional and spectral diversity with radiative transfer modeling and data. Remote Sensing of Environment, 2022, 280, 113170.	4.6	9
7	Recent increase in European forest harvests as based on area estimates (Ceccherini et al. 2020a) not confirmed in the French case. Annals of Forest Science, 2021, 78, 1.	0.8	10
8	The role of net ecosystem productivity and of inventories in climate change research: the need for "net ecosystem productivity with harvest", NEPH. Forest Ecosystems, 2021, 8, .	1.3	6
9	Climate warming predispose sessile oak forests to drought-induced tree mortality regardless of management legacies. Forest Ecology and Management, 2021, 491, 119097.	1.4	18
10	Assessing forest availability for wood supply in Europe. Forest Policy and Economics, 2020, 111, 102032.	1.5	26
11	Species richness influences the spatial distribution of trees in European forests. Oikos, 2020, 129, 380-390.	1.2	9
12	Good things take time—Diversity effects on tree growth shift from negative to positive during stand development in boreal forests. Journal of Ecology, 2020, 108, 2198-2211.	1.9	21
13	Effects of forest management on biomass stocks in Romanian beech forests. Forest Ecosystems, 2019, 6, .	1.3	21
14	Comparing local calibration using random effects estimation and Bayesian calibrations: a case study with a mixed effect stem profile model. Annals of Forest Science, 2019, 76, 1.	0.8	6
15	How do trees respond to species mixing in experimental compared to observational studies?. Ecology and Evolution, 2019, 9, 11254-11265.	0.8	8
16	Inferring plant functional diversity from space: the potential of Sentinel-2. Remote Sensing of Environment, 2019, 233, 111368.	4.6	56
17	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. Nature, 2019, 569, 404-408.	13.7	371
18	Harmonisation of stem volume estimates in European National Forest Inventories. Annals of Forest Science, 2019, 76, 1.	0.8	34

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19	Identifying the tree species compositions that maximize ecosystem functioning in European forests. Journal of Applied Ecology, 2019, 56, 733-744.	1.9	58
20	Twentieth century redistribution in climatic drivers of global tree growth. Science Advances, 2019, 5, eaat4313.	4.7	282
21	A silvicultural strategy for managing uneven-aged beech-dominated forests in Thuringia, Germany: a new approach to an old problem. Scandinavian Journal of Forest Research, 2018, 33, 668-680.	0.5	12
22	Tree species diversity does not compromise stem quality in major European forest types. Forest Ecology and Management, 2018, 422, 323-337.	1.4	20
23	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. Ecology Letters, 2018, 21, 31-42.	3.0	74
24	A Combined Tree Ring and Vegetation Model Assessment of European Forest Growth Sensitivity to Interannual Climate Variability. Global Biogeochemical Cycles, 2018, 32, 1226-1240.	1.9	54
25	Management breaks the natural productivity-biodiversity relationship in forests and grassland: an opinion. Forest Ecosystems, 2018, 5, .	1.3	17
26	Untangling methodological and scale considerations in growth and productivity trend estimates of Canada's forests. Environmental Research Letters, 2018, 13, 093001.	2.2	24
27	When tree rings go global: Challenges and opportunities for retro- and prospective insight. Quaternary Science Reviews, 2018, 197, 1-20.	1.4	131
28	Conifer proportion explains fine root biomass more than tree species diversity and site factors in major European forest types. Forest Ecology and Management, 2017, 406, 330-350.	1.4	34
29	Biodiversity and ecosystem functioning relations in European forests depend on environmental context. Ecology Letters, 2017, 20, 1414-1426.	3.0	244
30	Diversity and competition influence tree allometric relationships â€" developing functions for mixedâ€species forests. Journal of Ecology, 2017, 105, 761-774.	1.9	91
31	Dendroecological reconstruction of disturbance history of an oldâ€growth mixed sessile oakâ€"beech forest. Journal of Vegetation Science, 2017, 28, 117-127.	1.1	29
32	Detecting the fingerprint of drought across Europe's forests: do carbon isotope ratios and stem growth rates tell similar stories?. Forest Ecosystems, 2017, 4, .	1.3	19
33	Creating a Regional MODIS Satellite-Driven Net Primary Production Dataset for European Forests. Remote Sensing, 2016, 8, 554.	1.8	39
34	Jack-of-all-trades effects drive biodiversityâ€"ecosystem multifunctionality relationships in European forests. Nature Communications, 2016, 7, 11109.	5.8	185
35	No growth stimulation of Canada's boreal forest under half-century of combined warming and CO_2 fertilization. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8406-E8414.	3.3	233
36	dendrometeR: Analyzing the pulse of trees in R. Dendrochronologia, 2016, 40, 12-16.	1.0	48

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37	Positive biodiversity-productivity relationship predominant in global forests. Science, 2016, 354, .	6.0	864
38	Romanian legal management rules limit wood production in Norway spruce and beech forests. Forest Ecosystems, 2016, 3, .	1.3	14
39	Climate modulates the effects of tree diversity on forest productivity. Journal of Ecology, 2016, 104, 388-398.	1.9	109
40	Comparison of carbon estimation methods for European forests. Forest Ecology and Management, 2016, 361, 397-420.	1.4	106
41	Biotic homogenization can decrease landscape-scale forest multifunctionality. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3557-3562.	3.3	196
42	A review on plant diversity and forest management of European beech forests. European Journal of Forest Research, 2016, 135, 51-67.	1.1	35
43	Influence of wood density in tree-ring-based annual productivity assessments and its errors in Norway spruce. Biogeosciences, 2015, 12, 6205-6217.	1.3	27
44	Crown plasticity enables trees to optimize canopy packing in mixedâ€species forests. Functional Ecology, 2015, 29, 1078-1086.	1.7	279
45	pointRes: An R package to analyze pointer years and components of resilience. Dendrochronologia, 2015, 35, 34-38.	1.0	140
46	Age-class disequilibrium as an opportunity for adaptive forest management in the Carpathian Mountains, Romania. Regional Environmental Change, 2015, 15, 1557-1568.	1.4	18
47	Predictive approaches to forest site productivity: recent trends, challenges and future perspectives. Forestry, 2014, 87, 109-128.	1.2	118
48	Opinion Paper: Forest management and biodiversity. Web Ecology, 2014, 14, 3-10.	0.4	47
49	Toward consistent measurements of carbon accumulation: A multi-site assessment of biomass and basal area increment across Europe. Dendrochronologia, 2014, 32, 153-161.	1.0	80
50	Aboveâ€ground woody carbon sequestration measured from tree rings is coherent with net ecosystem productivity at five eddyâ€covariance sites. New Phytologist, 2014, 201, 1289-1303.	3.5	152
51	The influence of sampling design on treeâ€ringâ€based quantification of forest growth. Global Change Biology, 2014, 20, 2867-2885.	4.2	225
52	Stabilizing effects of diversity on aboveground wood production in forest ecosystems: linking patterns and processes. Ecology Letters, 2014, 17, 1560-1569.	3.0	232
53	Landscapeâ€level variability in historical disturbance in primary <i><scp>P</scp>icea abies</i> mountain forests of the <scp>E</scp>astern <scp>C</scp>arpathians, <scp>R</scp>omania. Journal of Vegetation Science, 2014, 25, 386-401.	1.1	99
54	Competition for light and water play contrasting roles in driving diversityâ€"productivity relationships in Iberian forests. Journal of Ecology, 2014, 102, 1202-1213.	1.9	174

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55	Tree diversity does not always improve resistance of forest ecosystems to drought. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14812-14815.	3.3	228
56	A tree-ring perspective on the terrestrial carbon cycle. Oecologia, 2014, 176, 307-322.	0.9	131
57	Reconstruction of summer temperatures in Eastern Carpathian Mountains (Rodna Mts, Romania) back to <scp>AD</scp> 1460 from tree‐rings. International Journal of Climatology, 2014, 34, 871-880.	1.5	22
58	Assessing the influence of climate—water table interactions on jack pine and black spruce productivity in western central Canada. Ecoscience, 2014, 21, 315-326.	0.6	5
59	Annals of Forest Research: 80 years from first publishing. Annals of Forest Research, 2014, 57, 3.	0.6	0
60	Reply to MikolÃ¡Å¡'s comment on &quot;Opinion Paper: Forest management and biodiversity&quot; by Schulze et al. (2014). Web Ecology, 2014, 14, 75-77.	0.4	0
61	Effect of ring width, cambial age, and climatic variables on the within-ring wood density profile of Norway spruce Picea abies (L.) Karst.. Trees - Structure and Function, 2013, 27, 913-925.	0.9	49
62	Meteorological forcing of day-to-day stem radius variations of beech is highly synchronic on opposing aspects of a valley. Agricultural and Forest Meteorology, 2013, 181, 85-93.	1.9	35
63	Predictive models of forest logging residues in Romanian spruce and beech forests. Biomass and Bioenergy, 2013, 54, 59-66.	2.9	8
64	Site- and species-specific responses of forest growth to climate across the European continent. Global Ecology and Biogeography, 2013, 22, 706-717.	2.7	297
65	Climate‐growth relationships at different stem heights in silver fir and Norway spruce. Canadian Journal of Forest Research, 2012, 42, 958-969.	0.8	36
66	Deadwood specific density and its influential factors: A case study from a pure Norway spruce old-growth forest in the Eastern Carpathians. Forest Ecology and Management, 2012, 283, 77-85.	1.4	16
67	Temporal variability of the NPP-GPP ratio at seasonal and interannual time scales in a temperate beech forest. Biogeosciences, 2011, 8, 2481-2492.	1.3	43
68	Comparative dendroclimatic study of Scots pine, Norway spruce, and silver fir in the Vrancea Range, Eastern Carpathian Mountains. Trees - Structure and Function, 2009, 23, 95-106.	0.9	72
69	Effects of the clear-cutting of a Douglas-fir (Pseudotsuga menziesii(Mirb.) Franco) plantation on chemical soil fertility. Annals of Forest Science, 2008, 65, 303.	0.8	13
70	Carbon accumulation in European forests. Nature Geoscience, 2008, 1, 425-429.	5.4	263
71	Effect of aggregating spatial parameters on modelling forest carbon and water fluxes. Agricultural and Forest Meteorology, 2006, 139, 269-287.	1.9	18
72	Intra-annual variations in climate influence growth and wood density of Norway spruce. Tree Physiology, 2005, 25, 651-660.	1.4	235

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73	Is ring width a reliable proxy for stem-biomass increment? A case study in European beech. Canadian Journal of Forest Research, 2005, 35, 2920-2933.	0.8	80
74	Modelling variability of wood density in beech as affected by ring age, radial growth and climate. Trees - Structure and Function, 2004, 18, 264-276.	0.9	118
75	Long-term variations in leaf area index and light extinction in a Fagus sylvatica stand as estimated from global radiation profiles. Theoretical and Applied Climatology, 2004, 79, 225-238.	1.3	27
76	Leaf area index from litter collection: impact of specific leaf area variability within a beech stand. Canadian Journal of Remote Sensing, 2003, 29, 371-380.	1.1	36