

Adeline Fayolle

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

3,208
citations

147801

31
h-index

175258

52
g-index

87
all docs

87
docs citations

87
times ranked

5008
citing authors

#	ARTICLE	IF	CITATIONS
1	No growth stimulation of tropical trees by 150 years of CO ₂ fertilization but water-use efficiency increased. <i>Nature Geoscience</i> , 2015, 8, 24-28.	12.9	348
2	Community assembly along a soil depth gradient: contrasting patterns of plant trait convergence and divergence in a Mediterranean rangeland. <i>Journal of Ecology</i> , 2012, 100, 1422-1433.	4.0	303
3	Tree allometry in Central Africa: Testing the validity of pantropical multi-species allometric equations for estimating biomass and carbon stocks. <i>Forest Ecology and Management</i> , 2013, 305, 29-37.	3.2	152
4	Tropical forest recovery from logging: a 24 year silvicultural experiment from Central Africa. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120302.	4.0	110
5	Potential of tree-ring analysis in a wet tropical forest: A case study on 22 commercial tree species in Central Africa. <i>Forest Ecology and Management</i> , 2014, 323, 65-78.	3.2	89
6	Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , 2018, 27, 1366-1383.	5.8	78
7	Geological Substrates Shape Tree Species and Trait Distributions in African Moist Forests. <i>PLoS ONE</i> , 2012, 7, e42381.	2.5	75
8	Environmental filtering of dense-wooded species controls above-ground biomass stored in African moist forests. <i>Journal of Ecology</i> , 2011, 99, 981-990.	4.0	72
9	Height competition between <i>Quercus petraea</i> and <i>Fagus sylvatica</i> natural regeneration in mixed and uneven-aged stands. <i>Forest Ecology and Management</i> , 2013, 304, 391-398.	3.2	70
10	Patterns of tree species composition across tropical African forests. <i>Journal of Biogeography</i> , 2014, 41, 2320-2331.	3.0	69
11	Silvicultural disturbance has little impact on tree species diversity in a Central African moist forest. <i>Forest Ecology and Management</i> , 2013, 304, 322-332.	3.2	67
12	Closing a gap in tropical forest biomass estimation: taking crown mass variation into account in pantropical allometries. <i>Biogeosciences</i> , 2016, 13, 1571-1585.	3.3	66
13	Limitations to sustainable frankincense production: blocked regeneration, high adult mortality and declining populations. <i>Journal of Applied Ecology</i> , 2012, 49, 164-173.	4.0	62
14	Vegetation structure and greenness in Central Africa from Modis multi-temporal data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120309.	4.0	59
15	A new insight in the structure, composition and functioning of central African moist forests. <i>Forest Ecology and Management</i> , 2014, 329, 195-205.	3.2	55
16	An evolutionary perspective on leaf economics: phylogenetics of leaf mass per area in vascular plants. <i>Ecology and Evolution</i> , 2014, 4, 2799-2811.	1.9	53
17	Unveiling African rainforest composition and vulnerability to global change. <i>Nature</i> , 2021, 593, 90-94.	27.8	53
18	Taller trees, denser stands and greater biomass in semi-deciduous than in evergreen lowland central African forests. <i>Forest Ecology and Management</i> , 2016, 374, 42-50.	3.2	48

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19	Does biomass growth increase in the largest trees? Flaws, fallacies and alternative analyses. <i>Functional Ecology</i> , 2017, 31, 568-581.	3.6	48
20	Annual cycles are the most common reproductive strategy in African tropical tree communities. <i>Biotropica</i> , 2018, 50, 418-430.	1.6	48
21	No evidence for consistent long-term growth stimulation of 13 tropical tree species: results from tree-ring analysis. <i>Global Change Biology</i> , 2015, 21, 3762-3776.	9.5	47
22	Present-day central African forest is a legacy of the 19th century human history. <i>ELife</i> , 2017, 6, .	6.0	46
23	New Evidence of Human Activities During the Holocene in the Lowland Forests of the Northern Congo Basin. <i>Radiocarbon</i> , 2014, 56, 209-220.	1.8	44
24	A regional allometry for the Congo basin forests based on the largest ever destructive sampling. <i>Forest Ecology and Management</i> , 2018, 430, 228-240.	3.2	44
25	Combined effects of climate, resource availability, and plant traits on biomass produced in a Mediterranean rangeland. <i>Ecology</i> , 2014, 95, 737-748.	3.2	41
26	Floristic evidence for alternative biome states in tropical Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28183-28190.	7.1	41
27	Terrestrial photogrammetry: a non-destructive method for modelling irregularly shaped tropical tree trunks. <i>Methods in Ecology and Evolution</i> , 2017, 8, 460-471.	5.2	40
28	Frankincense in peril. <i>Nature Sustainability</i> , 2019, 2, 602-610.	23.7	39
29	Tree allometry for estimation of carbon stocks in African tropical forests. <i>Forestry</i> , 2016, 89, 446-455.	2.3	38
30	Conservation value of tropical forests: Distance to human settlements matters more than management in Central Africa. <i>Biological Conservation</i> , 2020, 241, 108351.	4.1	38
31	How Can Remote Sensing Help Monitor Tropical Moist Forest Degradation? A Systematic Review. <i>Remote Sensing</i> , 2020, 12, 1087.	4.0	37
32	Wood Specific Gravity Variations and Biomass of Central African Tree Species: The Simple Choice of the Outer Wood. <i>PLoS ONE</i> , 2015, 10, e0142146.	2.5	36
33	Soil seed bank characteristics in two central African forest types and implications for forest restoration. <i>Forest Ecology and Management</i> , 2018, 409, 766-776.	3.2	34
34	Measuring the importance of competition: a new formulation of the problem. <i>Journal of Ecology</i> , 2010, 98, 1-6.	4.0	32
35	Detecting large-scale diversity patterns in tropical trees: Can we trust commercial forest inventories?. <i>Forest Ecology and Management</i> , 2011, 261, 187-194.	3.2	30
36	The light-deficient climates of western Central African evergreen forests. <i>Environmental Research Letters</i> , 2019, 14, 034007.	5.2	30

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37	Perceptions of ecosystem services provided by tropical forests to local populations in Cameroon. <i>Ecosystem Services</i> , 2019, 38, 100956.	5.4	29
38	Plant demographic and functional responses to management intensification: A long-term study in a Mediterranean rangeland. <i>Journal of Ecology</i> , 2018, 106, 1363-1376.	4.0	28
39	Differential impacts of plant interactions on herbaceous species recruitment: disentangling factors controlling emergence, survival and growth of seedlings. <i>Oecologia</i> , 2009, 159, 817-825.	2.0	27
40	Quantifying trait selection driving community assembly: a test in herbaceous plant communities under contrasted land use regimes. <i>Oikos</i> , 2012, 121, 1103-1111.	2.7	27
41	Tree Age Distributions Reveal Large-Scale Disturbance-Recovery Cycles in Three Tropical Forests. <i>Frontiers in Plant Science</i> , 2016, 7, 1984.	3.6	27
42	Pantropical variability in tree crown allometry. <i>Global Ecology and Biogeography</i> , 2021, 30, 459-475.	5.8	27
43	The determinants of tropical forest deciduousness: disentangling the effects of rainfall and geology in central Africa. <i>Journal of Ecology</i> , 2016, 104, 924-935.	4.0	26
44	Tree roots can penetrate deeply in African semi-deciduous rain forests: evidence from two common soil types. <i>Journal of Tropical Ecology</i> , 2015, 31, 13-23.	1.1	25
45	The influence of spatially structured soil properties on tree community assemblages at a landscape scale in the tropical forests of southern Cameroon. <i>Journal of Ecology</i> , 2017, 105, 354-366.	4.0	24
46	New data on the recent history of the littoral forests of southern Cameroon: an insight into the role of historical human disturbances on the current forest composition. <i>Plant Ecology and Evolution</i> , 2015, 148, 19-28.	0.7	23
47	Tropical tree assembly depends on the interactions between successional and soil filtering processes. <i>Global Ecology and Biogeography</i> , 2014, 23, 1440-1449.	5.8	22
48	How Tightly Linked Are <i>Pericopsis elata</i> (Fabaceae) Patches to Anthropogenic Disturbances in Southeastern Cameroon?. <i>Forests</i> , 2015, 6, 293-310.	2.1	20
49	Enrichment of Central African logged forests with high-value tree species: testing a new approach to regenerating degraded forests. <i>International Journal of Biodiversity Science, Ecosystem Services & Management</i> , 2016, 12, 83-95.	2.9	19
50	Enrichment of Logging Gaps with a High Conservation Value Species (<i>Pericopsis elata</i>) in a Central African Moist Forest. <i>Forests</i> , 2014, 5, 3031-3047.	2.1	18
51	A sharp floristic discontinuity revealed by the biogeographic regionalization of African savannas. <i>Journal of Biogeography</i> , 2019, 46, 454-465.	3.0	17
52	Using tree-ring data to improve timber-yield projections for African wet tropical forest tree species. <i>Forest Ecology and Management</i> , 2017, 400, 396-407.	3.2	16
53	Differential Performance between Two Timber Species in Forest Logging Gaps and in Plantations in Central Africa. <i>Forests</i> , 2015, 6, 380-394.	2.1	15
54	Architectural differences associated with functional traits among 45 coexisting tree species in Central Africa. <i>Functional Ecology</i> , 2018, 32, 2583-2593.	3.6	15

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55	The limited contribution of large trees to annual biomass production in an old-growth tropical forest. <i>Ecological Applications</i> , 2018, 28, 1273-1281.	3.8	14
56	The size at reproduction of canopy tree species in central Africa. <i>Biotropica</i> , 2018, 50, 465-476.	1.6	14
57	What controls local-scale aboveground biomass variation in central Africa? Testing structural, composition and architectural attributes. <i>Forest Ecology and Management</i> , 2018, 429, 570-578.	3.2	14
58	Daily Activity Patterns and Co-Occurrence of Duikers Revealed by an Intensive Camera Trap Survey across Central African Rainforests. <i>Animals</i> , 2020, 10, 2200.	2.3	14
59	Dissecting the difference in tree species richness between Africa and South America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2112336119.	7.1	14
60	Description of a new procedure to estimate the carbon stocks of all forest pools and impact assessment of methodological choices on the estimates. <i>European Journal of Forest Research</i> , 2013, 132, 565-577.	2.5	13
61	Refining Species Traits in a Dynamic Vegetation Model to Project the Impacts of Climate Change on Tropical Trees in Central Africa. <i>Forests</i> , 2018, 9, 722.	2.1	13
62	Wildlife trail or systematic? Camera trap placement has little effect on estimates of mammal diversity in a tropical forest in Gabon. <i>Remote Sensing in Ecology and Conservation</i> , 2021, 7, 321-336.	4.3	13
63	Leveraging Signatures of Plant Functional Strategies in Wood Density Profiles of African Trees to Correct Mass Estimations From Terrestrial Laser Data. <i>Scientific Reports</i> , 2020, 10, 2001.	3.3	11
64	Quantifying the Use of Forest Ecosystem Services by Local Populations in Southeastern Cameroon. <i>Sustainability</i> , 2020, 12, 2505.	3.2	11
65	Tropical tree allometry and crown allocation, and their relationship with species traits in central Africa. <i>Forest Ecology and Management</i> , 2021, 493, 119262.	3.2	11
66	Deforestation and timber production in Congo after implementation of sustainable management policy: A reaction to the article by J.S. Brandt, C. Nolte and A. Agrawal (<i>Land Use Policy</i> 52:15-22). <i>Land Use Policy</i> , 2017, 65, 62-65.	5.6	10
67	Trends in tropical tree growth: re-analyses confirm earlier findings. <i>Global Change Biology</i> , 2017, 23, 1761-1762.	9.5	10
68	Growth determinants of timber species <i>Triplochiton scleroxylon</i> and implications for forest management in central Africa. <i>Forest Ecology and Management</i> , 2019, 437, 211-221.	3.2	9
69	Reviser les tarifs de cubage pour mieux gérer les forêts du Cameroun. <i>Bois Et Forêts Des Tropiques</i> , 2013, 317, 35.	0.2	9
70	Height-diameter allometric equations of an emergent tree species from the Congo Basin. <i>Forest Ecology and Management</i> , 2022, 504, 119822.	3.2	9
71	Competition depends more on the functional structure of plant community than on standing biomass. <i>Community Ecology</i> , 2012, 13, 21-29.	0.9	7
72	A whole-plant functional scheme predicting the early growth of tropical tree species: evidence from 15 tree species in Central Africa. <i>Trees - Structure and Function</i> , 2019, 33, 491-505.	1.9	7

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73	Testing the divergent adaptation of two congeneric tree species on a rainfall gradient using eco-physio-morphological traits. <i>Biotropica</i> , 2019, 51, 364-377.	1.6	6
74	Highlighting convergent evolution in morphological traits in response to climatic gradient in African tropical tree species: The case of genus <i>Guibourtia</i> Benn.. <i>Ecology and Evolution</i> , 2019, 9, 13114-13126.	1.9	6
75	Error in the estimation of emission factors for forest degradation in central Africa. <i>Journal of Forest Research</i> , 2016, 21, 23-30.	1.4	5
76	Latitudinal shift in the timing of flowering of tree species across tropical Africa: insights from field observations and herbarium collections. <i>Journal of Tropical Ecology</i> , 2020, 36, 159-173.	1.1	5
77	Phénologie et diamètre de fructification du wengé, <i>Millettia laurentii</i> De Wild.: implications pour la gestion. <i>Bois Et Forêts Des Tropiques</i> , 2012, 312, 31.	0.2	5
78	Ecological niche divergence associated with species and populations differentiation in <i>Erythrophleum</i> (Fabaceae, Caesalpinioideae). <i>Plant Ecology and Evolution</i> , 2019, 152, 41-52.	0.7	5
79	Land use has little influence on the soil seed bank in a central African moist forest. <i>Biotropica</i> , 2022, 54, 100-112.	1.6	5
80	Climatic niche lability but growth form conservatism in the African woody flora. <i>Ecology Letters</i> , 2022, 25, 1164-1176.	6.4	5
81	VARIATIONS SAISONNIÈRES DE LA CROISSANCE DIAMÉTRIQUE ET DES PHÉNOLOGIES FOLIAIRE ET REPRODUCTIVE DE TROIS ESPÈCES LIGNEUSES COMMERCIALES D'AFRIQUE CENTRALE. <i>Bois Et Forêts Des Tropiques</i> , 2017, 330, 3.	0.2	4
82	MODÉLISER LA CROISSANCE DE QUATRE ESSENCES POUR AMÉLIORER LA GESTION FORESTIÈRE AU CAMEROUN. <i>Bois Et Forêts Des Tropiques</i> , 2015, 325, 5.	0.2	3
83	Light Response of Seedlings of a Central African Timber Tree Species, <i>Lophira alata</i> (Ochnaceae), and the Definition of Light Requirements. <i>Biotropica</i> , 2015, 47, 681-688.	1.6	2
84	Comparative analysis of two sister <i>Erythrophleum</i> species (Leguminosae) reveal contrasting transcriptome-wide responses to early drought stress. <i>Gene</i> , 2019, 694, 50-62.	2.2	2
85	Towards improving the assessment of rainforest carbon: Complementary evidence from repeated diameter measurements and dated wood. <i>Dendrochronologia</i> , 2020, 62, 125723.	2.2	2
86	Variation in Onset of Leaf Unfolding and Wood Formation in a Central African Tropical Tree Species. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	1