

Christopher Carcaillet

List of Publications by Year in descending order

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121
papers

7,400
citations

66343

42
h-index

58581

82
g-index

130
all docs

130
docs citations

130
times ranked

6619
citing authors

#	ARTICLE	IF	CITATIONS
1	Once upon a time biomass burning in the western Alps: Nesting effects of climate and local drivers on long-term subalpine fires. <i>Forest Ecosystems</i> , 2022, 9, 100024.	3.1	6
2	Tree-rings, genetics and the environment: Complex interactions at the rear edge of species distribution range. <i>Dendrochronologia</i> , 2021, 69, 125863.	2.2	9
3	Long-Term Steady-State Dry Boreal Forest in the Face of Disturbance. <i>Ecosystems</i> , 2020, 23, 1075-1092.	3.4	9
4	Selective and taxon-dependent effects of semi-feral cattle grazing on tree regeneration in an old-growth Mediterranean mountain forest. <i>Forest Ecosystems</i> , 2020, 7, .	3.1	7
5	For a few years more: reductions in plant diversity 70 years after the last fire in Mediterranean forests. <i>Plant Ecology</i> , 2020, 221, 559-576.	1.6	9
6	Fire-vegetation interactions during the last 11,000 years in boreal and cold temperate forests of Fennoscandia. <i>Quaternary Science Reviews</i> , 2020, 241, 106408.	3.0	15
7	The reconstruction of burned area and fire severity using charcoal from boreal lake sediments. <i>Holocene</i> , 2020, 30, 1400-1409.	1.7	38
8	Geographic isolation and climatic variability contribute to genetic differentiation in fragmented populations of the long-lived subalpine conifer <i>Pinus cembra</i> L. in the western Alps. <i>BMC Evolutionary Biology</i> , 2019, 19, 190.	3.2	28
9	Limited recruitment of eastern white cedar (<i>Thuja occidentalis</i> L.) under black spruce canopy at its northern distribution limit. <i>Ecoscience</i> , 2019, 26, 123-132.	1.4	4
10	Glacial refugia in the south-western Alps?. <i>New Phytologist</i> , 2019, 222, 663-667.	7.3	4
11	Keep your feet warm? A cryptic refugium of trees linked to a geothermal spring in an ocean of glaciers. <i>Global Change Biology</i> , 2018, 24, 2476-2487.	9.5	10
12	Global Modern Charcoal Dataset (GMCD): A tool for exploring proxy-fire linkages and spatial patterns of biomass burning. <i>Quaternary International</i> , 2018, 488, 3-17.	1.5	43
13	Fir expansion not controlled by moderate densities of large herbivores: a Mediterranean mountain grassland conservation issue. <i>Annals of Forest Science</i> , 2018, 75, 1.	2.0	4
14	Aridity and competition drive fire resistance trait covariation in mountain trees. <i>Ecosphere</i> , 2018, 9, e02493.	2.2	15
15	Diversity of foliar endophytic ascomycetes in the endemic Corsican pine forests. <i>Fungal Ecology</i> , 2018, 36, 128-140.	1.6	14
16	Higher potential fire intensity at the dry range margins of European mountain trees. <i>Journal of Biogeography</i> , 2018, 45, 2003-2015.	3.0	13
17	The climate, the fuel and the land use: Long-term regional variability of biomass burning in boreal forests. <i>Global Change Biology</i> , 2018, 24, 4929-4945.	9.5	26
18	Unlimited fuel wood during the middle Mesolithic (9650–8300 cal. yr BP) in northern Sweden: Fuel typology and pine-dominated vegetation inferred from charcoal identification and tree-ring morphology. <i>Holocene</i> , 2017, 27, 1370-1378.	1.7	5

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19	Review on fire effects on ectomycorrhizal symbiosis, an unachieved work for a scalding topic. <i>Forest Ecology and Management</i> , 2017, 391, 446-457.	3.2	56
20	<i>Xylobolus subpileatus</i> , a specialized basidiomycete functionally linked to old canopy gaps. <i>Canadian Journal of Forest Research</i> , 2017, 47, 965-973.	1.7	6
21	Ancient genetic bottleneck and Plio-Pleistocene climatic changes imprinted the phylogeography of European Black Pine populations. <i>European Journal of Forest Research</i> , 2017, 136, 767-786.	2.5	7
22	Fire ecology of a tree glacial refugium on a nunatak with a view on Alpine glaciers. <i>New Phytologist</i> , 2017, 216, 1281-1290.	7.3	22
23	Confounding legacies of land uses and land-form pattern on the regional vegetation structure and diversity of Mediterranean montane forests. <i>Forest Ecology and Management</i> , 2017, 384, 268-278.	3.2	4
24	In situ Comparison of Tree-Ring Responses to Climate and Population Genetics: The Need to Control for Local Climate and Site Variables. <i>Frontiers in Ecology and Evolution</i> , 2016, 4, .	2.2	18
25	Tree cover and seasonal precipitation drive understory flammability in alpine mountain forests. <i>Journal of Biogeography</i> , 2016, 43, 1869-1880.	3.0	15
26	Ancient split of major genetic lineages of European Black Pine: evidence from chloroplast DNA. <i>Tree Genetics and Genomes</i> , 2016, 12, 1.	1.6	14
27	Subalpine fires: the roles of vegetation, climate and, ultimately, land uses. <i>Climatic Change</i> , 2016, 135, 683-697.	3.6	15
28	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , 2016, 11, 034014.	5.2	199
29	Unexpected warming-induced growth decline in <i>Thuja occidentalis</i> at its northern limits in North America. <i>Journal of Biogeography</i> , 2015, 42, 1233-1245.	3.0	39
30	Range-wide genetic structure of maritime pine predates the last glacial maximum: evidence from nuclear DNA. <i>Hereditas</i> , 2014, 151, 1-13.	1.4	13
31	Periglacial fires and trees in a continental setting of Central Canada, Upper Pleistocene. <i>Geobiology</i> , 2014, 12, 109-118.	2.4	13
32	Historical range of fire frequency is not the Achilles' heel of the Corsican black pine ecosystem. <i>Journal of Ecology</i> , 2014, 102, 381-395.	4.0	36
33	Isotopic and anatomical signals for interpreting fire-related responses in <i>Pinus halepensis</i> . <i>Trees - Structure and Function</i> , 2014, 28, 1095-1104.	1.9	29
34	Land use legacies and site variables control the understory plant communities in Mediterranean broadleaved forests. <i>Agriculture, Ecosystems and Environment</i> , 2014, 189, 53-59.	5.3	17
35	Resistance of mixed subalpine forest to fire frequency changes: the ecological function of dwarf pine (<i>Pinus mugo</i> ssp. <i>mugo</i>). <i>Quaternary Science Reviews</i> , 2014, 90, 60-68.	3.0	12
36	Disentangling the trajectories of alpha, beta and gamma plant diversity of North American boreal ecoregions since 15,500 years. <i>Frontiers in Ecology and Evolution</i> , 2014, 2, .	2.2	23

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37	Long-term effects of climate and land-use change on larch budmoth outbreaks in the French Alps. <i>Climate Research</i> , 2014, 62, 1-14.	1.1	23
38	Holocene changes in climate and land use drove shifts in the diversity of testate amoebae in a subalpine pond. <i>Journal of Paleolimnology</i> , 2013, 49, 633-646.	1.6	6
39	Can biochar and hydrochar stability be assessed with chemical methods?. <i>Organic Geochemistry</i> , 2013, 60, 40-44.	1.8	36
40	Calibration of charcoal production from trees biomass for soil charcoal analyses in subalpine ecosystems. <i>Quaternary International</i> , 2013, 289, 16-23.	1.5	18
41	Fire-scars and polymodal age-structure provide evidence of fire-events in an Aleppo pine population in southern France. <i>Dendrochronologia</i> , 2013, 31, 159-164.	2.2	17
42	Estimating phytolith influx in lake sediments. <i>Quaternary Research</i> , 2013, 80, 341-347.	1.7	17
43	Fire in managed forests of eastern Canada: Risks and options. <i>Forest Ecology and Management</i> , 2013, 294, 238-249.	3.2	90
44	A comparison of charcoal measurements for reconstruction of Mediterranean paleo-fire frequency in the mountains of Corsica. <i>Quaternary Research</i> , 2013, 79, 337-349.	1.7	37
45	Climatic control of the biomass-burning decline in the Americas after 1500. <i>Holocene</i> , 2013, 23, 3-13.	1.7	83
46	Bark flammability as a fire-response trait for subalpine trees. <i>Frontiers in Plant Science</i> , 2013, 4, 466.	3.6	44
47	Tracking land-cover changes with sedimentary charcoal in the Afrotropics. <i>Holocene</i> , 2013, 23, 1853-1862.	1.7	77
48	Vegetation limits the impact of a warm climate on boreal wildfires. <i>New Phytologist</i> , 2013, 199, 1001-1011.	7.3	103
49	Paleofire reconstruction based on an ensemble member strategy applied to sedimentary charcoal. <i>Geophysical Research Letters</i> , 2013, 40, 2667-2672.	4.0	33
50	Assessing Paleo-Biodiversity Using Low Proxy Influx. <i>PLoS ONE</i> , 2013, 8, e65852.	2.5	8
51	Land-use legacies: multi-centuries years-old management control of between-stands variability at the landscape scale in Mediterranean mountain forests, France. <i>Journal of Forest Science</i> , 2013, 59, 1-7.	1.1	6
52	Needle accumulation rate model-based reconstruction of palaeo-tree biomass in the western subalpine Alps. <i>Holocene</i> , 2012, 22, 579-587.	1.7	24
53	Woody vegetation, fuel and fire track the melting of the Scandinavian ice-sheet before 9500 cal yr BP. <i>Quaternary Research</i> , 2012, 78, 540-548.	1.7	21
54	Post-fire dynamics and spatial heterogeneity of woody debris associated with <i>Pinus halepensis</i> in an oak-pine Mediterranean ecosystem. <i>Ecoscience</i> , 2012, 19, 356-363.	1.4	10

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55	Local <i>versus</i> regional processes: can soil characteristics overcome climate and fire regimes by modifying vegetation trajectories?. <i>Journal of Quaternary Science</i> , 2012, 27, 745-756.	2.1	24
56	Predictability of biomass burning in response to climate changes. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	201
57	Holocene upper tree-limits of <i>Pinus section sylvestris</i> in the Western Alps as evidenced from travertine archives. <i>Review of Palaeobotany and Palynology</i> , 2012, 169, 96-102.	1.5	10
58	Allometric equations for biomass assessment of subalpine dwarf shrubs. <i>Alpine Botany</i> , 2011, 121, 129-134.	2.4	25
59	Will climate change drive 21st century burn rates in Canadian boreal forest outside of its natural variability: collating global climate model experiments with sedimentary charcoal data. <i>International Journal of Wildland Fire</i> , 2010, 19, 1127.	2.4	141
60	Soil evolution and subalpine ecosystem changes in the French Alps inferred from geochemical analysis of lacustrine sediments. <i>Journal of Paleolimnology</i> , 2010, 44, 571-587.	1.6	44
61	THE TRAVERSETTE (ITALIA) ROCKFALL: GEOMORPHOLOGICAL INDICATOR OF THE HANNIBALIC INVASION ROUTE*. <i>Archaeometry</i> , 2010, 52, 156-172.	1.3	13
62	HANNIBAL'S INVASION ROUTE: AN AGE-OLD QUESTION REVISITED WITHIN A GEOARCHAEOLOGICAL AND PALAEOBOTANICAL CONTEXT. <i>Archaeometry</i> , 2010, 52, 1096-1109.	1.3	4
63	Debris flow burial of ancient wall system in the Upper Po River valley. <i>Geology Today</i> , 2010, 26, 209-215.	0.9	4
64	Holocene fires and a herb-dominated understory track wetter climates in subalpine forests. <i>Journal of Ecology</i> , 2010, 98, 1358-1368.	4.0	16
65	Resilience of the boreal forest in response to Holocene fire-frequency changes assessed by pollen diversity and population dynamics. <i>International Journal of Wildland Fire</i> , 2010, 19, 1026.	2.4	62
66	Trees in the subalpine belt since 11 700 cal. BP: origin, expansion and alteration of the modern forest. <i>Holocene</i> , 2010, 20, 139-146.	1.7	42
67	Eastern boreal North American wildfire risk of the past 7000 years: A model-data comparison. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	66
68	An increase in the upper tree-limit of silver fir (<i>Abies alba</i> Mill.) in the Alps since the mid-20th century: A land-use change phenomenon. <i>Forest Ecology and Management</i> , 2010, 259, 1406-1415.	3.2	67
69	Effects of vegetation zones and climatic changes on fire-induced atmospheric carbon emissions: a model based on paleodata. <i>International Journal of Wildland Fire</i> , 2010, 19, 1015.	2.4	11
70	Fire, Fuel Composition and Resilience Threshold in Subalpine Ecosystem. <i>PLoS ONE</i> , 2010, 5, e12480.	2.5	48
71	Putting the rise of the Inca Empire within a climatic and land management context. <i>Climate of the Past</i> , 2009, 5, 375-388.	3.4	65
72	Fires control spatial variability of subalpine vegetation dynamics during the Holocene in the Maurienne valley (French Alps). <i>Ecoscience</i> , 2009, 16, 13-22.	1.4	29

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73	Wildfire responses to abrupt climate change in North America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2519-2524.	7.1	352
74	Comparing fire-history interpretations based on area, number and estimated volume of macroscopic charcoal in lake sediments. <i>Quaternary Research</i> , 2009, 72, 462-468.	1.7	49
75	Long-term fire frequency variability in the eastern Canadian boreal forest: the influences of climate vs. local factors. <i>Global Change Biology</i> , 2009, 15, 1230-1241.	9.5	67
76	Heterogeneous response of circumboreal wildfire risk to climate change since the early 1900s. <i>Global Change Biology</i> , 2009, 15, 2751-2769.	9.5	102
77	The function of surface fires in the dynamics and structure of a formerly grazed old subalpine forest. <i>Journal of Ecology</i> , 2009, 97, 728-741.	4.0	30
78	A new, isolated and endangered relict population of dwarf pine (<i>Pinus mugo</i> Turra) in the northwestern Alps. <i>Comptes Rendus - Biologies</i> , 2009, 332, 456-463.	0.2	4
79	Spatial variability of fire history in subalpine forests: From natural to cultural regimes. <i>Ecoscience</i> , 2009, 16, 1-12.	1.4	68
80	Forest management is driving the eastern North American boreal forest outside its natural range of variability. <i>Frontiers in Ecology and the Environment</i> , 2009, 7, 519-524.	4.0	262
81	The effect of fire frequency on local cembra pine populations. <i>Ecology</i> , 2009, 90, 476-486.	3.2	27
82	Changes in fire regimes since the Last Glacial Maximum: an assessment based on a global synthesis and analysis of charcoal data. <i>Climate Dynamics</i> , 2008, 30, 887-907.	3.8	590
83	Climate and human influences on global biomass burning over the past two millennia. <i>Nature Geoscience</i> , 2008, 1, 697-702.	12.9	686
84	Post-fire Mediterranean vegetation dynamics and diversity: A discussion of succession models. <i>Forest Ecology and Management</i> , 2008, 255, 431-439.	3.2	155
85	Distinguishing subalpine soil types using extractible Al and Fe fractions and REE geochemistry. <i>Geoderma</i> , 2008, 145, 107-120.	5.1	36
86	Changes in fire regime explain the Holocene rise and fall of <i>Abies balsamea</i> in the coniferous forests of western Quebec, Canada. <i>Holocene</i> , 2008, 18, 693-703.	1.7	46
87	Sedimentary charcoal pattern in a karstic underground lake, Vercors massif, French Alps: implications for palaeo-fire history. <i>Holocene</i> , 2007, 17, 845-850.	1.7	24
88	LONG-TERM FIRE FREQUENCY NOT LINKED TO PREHISTORIC OCCUPATIONS IN NORTHERN SWEDISH BOREAL FOREST. <i>Ecology</i> , 2007, 88, 465-477.	3.2	99
89	Post-glacial migration of silver fir (<i>Abies alba</i> Mill.) in the south-western Alps. <i>Journal of Biogeography</i> , 2007, 34, 876-899.	3.0	44
90	Patterns of Land-use Abandonment Control Tree-recruitment and Forest Dynamics in Mediterranean Mountains. <i>Ecosystems</i> , 2007, 10, 936-948.	3.4	158

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91	PALEOBOTANY Charred Particle Analysis. , 2007, , 1582-1593.		10
92	Large herbivores control the invasive potential of nonnative Austrian black pine in a mixed deciduous Mediterranean forest. Canadian Journal of Forest Research, 2006, 36, 1047-1053.	1.7	17
93	Fire and soil erosion history in East Canadian boreal and temperate forests. Quaternary Science Reviews, 2006, 25, 1489-1500.	3.0	37
94	Black carbon yields and types in forest and cultivated sandy soils (Landes de Gascogne, France) as determined with different methods: Influence of change in land use. Organic Geochemistry, 2006, 37, 1185-1189.	1.8	23
95	Holocene tree-limit and distribution of <i>Abies alba</i> in the inner French Alps: anthropogenic or climatic changes?. Boreas, 2005, 34, 468-476.	2.4	50
96	<i>Pinus cembra</i> L. (arolla pine), a common tree in the inner French Alps since the early Holocene and above the present tree line: a synthesis based on charcoal data from soils and travertines. Journal of Biogeography, 2005, 32, 1659-1669.	3.0	44
97	Adsorption of allelopathic compounds by wood-derived charcoal: the role of wood porosity. Plant and Soil, 2005, 272, 291-300.	3.7	91
98	A review of Late Pleistocene and Holocene biogeography of highland Mediterranean pines (<i>Pinus</i> type) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.6	63
99	Title is missing!. Journal of Paleolimnology, 2003, 30, 167-181.	1.6	14
100	The Early Holocene treeline in the southern French Alps: new evidence from travertine formations. Global Ecology and Biogeography, 2003, 12, 411-419.	5.8	36
101	Wood anatomy of West European <i>Betula</i> : Quantitative descriptions and applications for routine identification in paleoecological studies. Ecoscience, 2003, 10, 370-379.	1.4	19
102	Holocene biomass burning and global dynamics of the carbon cycle. Chemosphere, 2002, 49, 845-863.	8.2	198
103	Comparison of pollen-slide and sieving methods in lacustrine charcoal analyses for local and regional fire history. Holocene, 2001, 11, 467-476.	1.7	196
104	Soil particles reworking evidences by AMS 14C dating of charcoal. Comptes Rendus De L'AcadÃ©mie Des Sciences Earth & Planetary Sciences SÃ©rie II, Sciences De La Terre Et Des PlanÃ©tes =, 2001, 332, 21-28.	0.2	7
105	Soil Carbon Sequestration by Holocene Fires Inferred from Soil Charcoal in the Dry French Alps. Arctic, Antarctic, and Alpine Research, 2001, 33, 282.	1.1	32
106	Future fire in Canada's boreal forest: paleoecology results and general circulation model - regional climate model simulations. Canadian Journal of Forest Research, 2001, 31, 854-864.	1.7	169
107	Soil Carbon Sequestration by Holocene Fires Inferred from Soil Charcoal in the Dry French Alps. Arctic, Antarctic, and Alpine Research, 2001, 33, 282-288.	1.1	36
108	Comments on "The Full-Glacial Forests of Central and Southeastern Europe" by Willis et al.. Quaternary Research, 2001, 55, 385-387.	1.7	44

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109	Change of fire frequency in the eastern Canadian boreal forests during the Holocene: does vegetation composition or climate trigger the fire regime?. <i>Journal of Ecology</i> , 2001, 89, 930-946.	4.0	232
110	Are Holocene wood-charcoal fragments stratified in alpine and subalpine soils? Evidence from the Alps based on AMS 14C dates. <i>Holocene</i> , 2001, 11, 231-242.	1.7	144
111	Future fire in Canada's boreal forest: paleoecology results and general circulation model - regional climate model simulations. <i>Canadian Journal of Forest Research</i> , 2001, 31, 854-864.	1.7	38
112	Changes in landscape structure in the northwestern Alps over the last 7000 years: lessons from soil charcoal. <i>Journal of Vegetation Science</i> , 2000, 11, 705-714.	2.2	72
113	Holocene changes in seasonal precipitation highlighted by fire incidence in eastern Canada. <i>Climate Dynamics</i> , 2000, 16, 549-559.	3.8	114
114	A spatially precise study of Holocene fire history, climate and human impact within the Maurienne valley, North French Alps. <i>Journal of Ecology</i> , 1998, 86, 384-396.	4.0	137
115	Variability in Fire Frequency and Forest Composition in Canada's Southeastern Boreal Forest: A Challenge for Sustainable Forest Management. <i>Ecology and Society</i> , 1998, 2, .	0.9	38
116	Determination of the natural mortality age of an holm oak (<i>Quercus ilex</i> L.) stand in Corsica (Mediterranean Island). <i>Acta Oecologica</i> , 1997, 18, 519-530.	1.1	35
117	Fire and late-Holocene expansion of <i>Quercus ilex</i> and <i>Pinus pinaster</i> on Corsica. <i>Journal of Vegetation Science</i> , 1997, 8, 85-94.	2.2	68
118	Pedoanthracological contribution to the study of the evolution of the upper treeline in the Maurienne valley (North French Alps): methodology and preliminary data. <i>Review of Palaeobotany and Palynology</i> , 1996, 91, 399-416.	1.5	139
119	Effets des contraintes (vents et embruns) sur la composition et la structure de la végétation des pentes drainées de l'île de la Possession (archipel Crozet, subantarctique). <i>Canadian Journal of Botany</i> , 1995, 73, 1739-1749.	1.1	4
120	Études pédoanthracologiques des variations de la limite supérieure des arbres au cours de l'Holocène dans les Alpes françaises. <i>Géographie Physique Et Quaternaire</i> , 0, 52, 195-208.	0.2	63
121	Aspects taphonomiques de la stratigraphie et de la datation de charbons de bois dans les sols: exemple de quelques sols des Alpes. <i>Géographie Physique Et Quaternaire</i> , 0, 50, 233-244.	0.2	51