

# Franco Biondi

## List of Publications by Citations

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103  
papers

5,471  
citations

34  
h-index

73  
g-index

108  
ext. papers

6,327  
ext. citations

4.6  
avg, IF

6.04  
L-index

#	Paper	IF	Citations
103	DENDROCLIM2002: A C++ program for statistical calibration of climate signals in tree-ring chronologies. <i>Computers and Geosciences</i> , <b>2004</b> , 30, 303-311	4.5	775
102	FOREST ECOLOGY. Pervasive drought legacies in forest ecosystems and their implications for carbon cycle models. <i>Science</i> , <b>2015</b> , 349, 528-32	33.3	555
101	North Pacific Decadal Climate Variability since 1661. <i>Journal of Climate</i> , <b>2001</b> , 14, 5-10	4.4	413
100	treeclim: an R package for the numerical calibration of proxy-climate relationships. <i>Ecography</i> , <b>2015</b> , 38, 431-436	6.5	338
99	Global patterns of drought recovery. <i>Nature</i> , <b>2017</b> , 548, 202-205	50.4	334
98	A Theory-Driven Approach to Tree-Ring Standardization: Defining the Biological Trend from Expected Basal Area Increment. <i>Tree-Ring Research</i> , <b>2008</b> , 64, 81-96	1	323
97	Drought-driven growth reduction in old beech ( <i>Fagus sylvatica</i> L.) forests of the central Apennines, Italy. <i>Global Change Biology</i> , <b>2008</b> , 14, 1265-1281	11.4	221
96	Dendroclimatic calibration in R: The bootRes package for response and correlation function analysis. <i>Dendrochronologia</i> , <b>2013</b> , 31, 68-74	2.8	158
95	Bioclimatology of beech ( <i>Fagus sylvatica</i> L.) in the Eastern Alps: spatial and altitudinal climatic signals identified through a tree-ring network. <i>Journal of Biogeography</i> , <b>2007</b> , 34, 1873-1892	4.1	146
94	COMPARING TREE-RING CHRONOLOGIES AND REPEATED TIMBER INVENTORIES AS FOREST MONITORING TOOLS <b>1999</b> , 9, 216-227		129
93	Structure, dynamics and dendroecology of an old-growth <i>Fagus</i> forest in the Apennines. <i>Journal of Vegetation Science</i> , <b>2005</b> , 16, 13-28	3.1	123
92	Geostatistically modeling stem size and increment in an old-growth forest. <i>Canadian Journal of Forest Research</i> , <b>1994</b> , 24, 1354-1368	1.9	107
91	Spatial and altitudinal bioclimatic zones of the Italian peninsula identified from a beech ( <i>Fagus sylvatica</i> L.) tree-ring network. <i>Acta Oecologica</i> , <b>2005</b> , 27, 197-210	1.7	78
90	Reconstructing Disturbances and Their Biogeochemical Consequences over Multiple Timescales. <i>BioScience</i> , <b>2014</b> , 64, 105-116	5.7	66
89	Bioclimate and growth history affect beech lifespan in the Italian Alps and Apennines. <i>Global Change Biology</i> , <b>2012</b> , 18, 960-972	11.4	64
88	Climate change and oak growth decline: Dendroecology and stand productivity of a Turkey oak ( <i>Quercus cerris</i> L.) old stored coppice in Central Italy. <i>Annals of Forest Science</i> , <b>2010</b> , 67, 706-706	3.1	61
87	Climatically controlled reproduction drives interannual growth variability in a temperate tree species. <i>Ecology Letters</i> , <b>2018</b> , 21, 1833-1844	10	57

86	Are Climate-Tree Growth Relationships Changing in North-Central Idaho, U.S.A.?. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2000</b> , 32, 111-116	1.8	55
85	Are Climate-Tree Growth Relationships Changing in North-Central Idaho, U.S.A.?. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2000</b> , 32, 111	1.8	53
84	Tree size distribution at increasing spatial scales converges to the rotated sigmoid curve in two old-growth beech stands of the Italian Apennines. <i>Forest Ecology and Management</i> , <b>2011</b> , 262, 1950-1962	3.9	50
83	Inter-decadal signals during the last millennium (AD 1117-1992) in the Varve record of Santa Barbara Basin, California. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 193-196	4.9	50
82	Inequality in paleorecords. <i>Ecology</i> , <b>2008</b> , 89, 1056-67	4.6	50
81	A 400-year tree-ring chronology from the tropical treeline of North America. <i>Ambio</i> , <b>2001</b> , 30, 162-6	6.5	45
80	Photoperiod and temperature as dominant environmental drivers triggering secondary growth resumption in Northern Hemisphere conifers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 20645-20652	11.5	45
79	Moisture-driven xylogenesis in <i>Pinus ponderosa</i> from a Mojave Desert mountain reveals high phenological plasticity. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 823-836	8.4	44
78	A new model for quantifying climate episodes. <i>International Journal of Climatology</i> , <b>2005</b> , 25, 1253-1264	3.5	41
77	Stochastic modeling of regime shifts. <i>Climate Research</i> , <b>2002</b> , 23, 23-30	1.6	41
76	Decadal-scale dynamics at the Gus Pearson Natural Areas: evidence for inverse (a)symmetric competition?. <i>Canadian Journal of Forest Research</i> , <b>1996</b> , 26, 1397-1406	1.9	40
75	Population ecology of yew ( <i>Taxus baccata</i> L.) in the Central Apennines: spatial patterns and their relevance for conservation strategies. <i>Plant Ecology</i> , <b>2009</b> , 205, 23-46	1.7	39
74	A new stochastic model of episode peak and duration for eco-hydro-climatic applications. <i>Ecological Modelling</i> , <b>2008</b> , 211, 383-395	3	39
73	Duration and severity of Medieval drought in the Lake Tahoe Basin. <i>Quaternary Science Reviews</i> , <b>2011</b> , 30, 3269-3279	3.9	38
72	Using automated point dendrometers to analyze tropical treeline stem growth at Nevado de Colima, Mexico. <i>Sensors</i> , <b>2010</b> , 10, 5827-44	3.8	38
71	Daily Weather and Tree Growth at the Tropical Treeline of North America. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2005</b> , 37, 16-24	1.8	37
70	July temperature during the second millennium reconstructed from Idaho tree rings. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 1445-1448	4.9	35
69	Tree ring-based metrics for assessing old-growth forest naturalness. <i>Journal of Applied Ecology</i> , <b>2017</b> , 54, 737-749	5.8	34

68	Tree growth response to the 1913 eruption of Volcā de Fuego de Colima, Mexico. <i>Quaternary Research</i> , <b>2003</b> , 59, 293-299	1.9	32
67	Growth rate rather than growing season length determines wood biomass in dry environments. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 271, 46-53	5.8	31
66	Tree growth, cambial phenology, and wood anatomy of limber pine at a Great Basin (USA) mountain observatory. <i>Trees - Structure and Function</i> , <b>2016</b> , 30, 1507-1521	2.6	30
65	Radiocarbon Analysis of Pinus Laguna Tree Rings: Implications for Tropical Dendrochronology. <i>Radiocarbon</i> , <b>1999</b> , 41, 241-249	4.6	29
64	A Network for Observing Great Basin Climate Change. <i>Eos</i> , <b>2013</b> , 94, 105-106	1.5	25
63	Environmental drivers of cambial phenology in Great Basin bristlecone pine. <i>Tree Physiology</i> , <b>2016</b> , 36, 818-31	4.2	25
62	Conifer radial growth response to recent seasonal warming and drought from the southwestern USA. <i>Forest Ecology and Management</i> , <b>2018</b> , 418, 55-62	3.9	21
61	Dendroecological testing of the pyroclimatic hypothesis in the central Great Basin, Nevada, USA. <i>Ecosphere</i> , <b>2011</b> , 2, art5	3.1	21
60	Radiocarbon Analysis Confirms the Annual Nature of Sagebrush Growth Rings. <i>Radiocarbon</i> , <b>2007</b> , 49, 1231-1240	4.6	21
59	Radial growth responses of singleleaf pinyon (Pinus monophylla) to wildfire. <i>Dendrochronologia</i> , <b>2006</b> , 24, 39-46	2.8	19
58	Wood Cellular Dendroclimatology: Testing New Proxies in Great Basin Bristlecone Pine. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1602	6.2	19
57	Biogeoclimatic influences on tree growth releases identified by the boundary line method in beech (Fagus sylvatica L.) populations of southern Europe. <i>Forest Ecology and Management</i> , <b>2012</b> , 286, 28-37	3.9	18
56	A Weights-of-Evidence Model for Mapping the Probability of Fire Occurrence in Lincoln County, Nevada. <i>Annals of the American Association of Geographers</i> , <b>2009</b> , 99, 712-727		18
55	The oldest dated tree of Europe lives in the wild Pollino massif: Italus, a strip-bark Heldreich pine. <i>Ecology</i> , <b>2018</b> , 99, 1682-1684	4.6	18
54	Climatic influences on wood anatomy and tree-ring features of Great Basin conifers at a new mountain observatory. <i>Applications in Plant Sciences</i> , <b>2014</b> , 2, 1400054	2.3	17
53	A water balance approach for reconstructing streamflow using tree-ring proxy records. <i>Journal of Hydrology</i> , <b>2015</b> , 529, 535-547	6	16
52	Ozone biomonitoring in Northern Italy. <i>Environmental Monitoring and Assessment</i> , <b>1992</b> , 21, 141-59	3.1	16
51	Climate Variability and Flood Frequency at Decadal to Millennial Time Scales. <i>Water Science and Application</i> , <b>2013</b> , 21-45		15

50	Dendroclimatology from Regional to Continental Scales: Understanding Regional Processes to Reconstruct Large-Scale Climatic Variations Across the Western Americas. <i>Developments in Paleoenvironmental Research</i> , <b>2011</b> , 175-227		15
49	Variability of trace metal concentrations in Jeffrey pine ( <i>Pinus jeffreyi</i> ) tree rings from the Tahoe Basin, California, USA. <i>Journal of Forest Research</i> , <b>2008</b> , 13, 347-356	1.4	15
48	Correlation between environmental parameters and leaf injury in <i>Nicotiana tabacum</i> L. cv. Bel-W 3R. <i>Environmental Monitoring and Assessment</i> , <b>1992</b> , 22, 73-87	3.1	15
47	Plant-water relationships in the Great Basin Desert of North America derived from <i>Pinus monophylla</i> hourly dendrometer records. <i>International Journal of Biometeorology</i> , <b>2015</b> , 59, 939-53	3.7	14
46	Dendroclimatology of Torrey Pine ( <i>Pinus torreyana</i> Parry ex Carr.). <i>American Midland Naturalist</i> , <b>1997</b> , 138, 237	0.7	14
45	Stable Isotope Characterization of the Ecohydrological Cycle at a Tropical Treeline Site. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2008</b> , 40, 343-354	1.8	14
44	Structure, dynamics and dendroecology of an old-growth <i>Fagus</i> forest in the Apennines. <i>Journal of Vegetation Science</i> , <b>2005</b> , 16, 13	3.1	14
43	Dendrochronological analysis of single-tree interactions in mixed pine-oak stands of central Arizona, USA. <i>Forest Ecology and Management</i> , <b>1992</b> , 48, 321-333	3.9	13
42	Lessons from the wild: slow but increasing long-term growth allows for maximum longevity in European beech. <i>Ecology</i> , <b>2019</b> , 100, e02737	4.6	12
41	Tree growth patterns associated with extreme longevity: Implications for the ecology and conservation of primeval trees in Mediterranean mountains. <i>Anthropocene</i> , <b>2019</b> , 26, 100199	3.9	12
40	A watershed modeling approach to streamflow reconstruction from tree-ring records. <i>Environmental Research Letters</i> , <b>2008</b> , 3, 024006	6.2	12
39	Intra-annual wood anatomical features of high-elevation conifers in the Great Basin, USA. <i>Dendrochronologia</i> , <b>2014</b> , 32, 303-312	2.8	11
38	550-Year Reconstruction of Streamflow Variability in Spring Valley, Nevada. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2012</b> , 138, 326-333	2.8	11
37	Response of Lodgepole Pine Growth to CO <sub>2</sub> Degassing at Mammoth Mountain, California. <i>Ecology</i> , <b>1999</b> , 80, 2420	4.6	11
36	Long-Term Hydroclimatic Patterns in the Truckee-Carson Basin of the Eastern Sierra Nevada, USA. <i>Water Resources Research</i> , <b>2019</b> , 55, 5559-5574	5.4	10
35	Streamflow simulation using a water-balance model with annually-resolved inputs. <i>Journal of Hydrology</i> , <b>2010</b> , 387, 46-53	6	10
34	Stem Circadian Phenology of Four Pine Species in Naturally Contrasting Climates from Sky-Island Forests of the Western USA. <i>Forests</i> , <b>2018</b> , 9, 396	2.8	10
33	Transpiration drivers of high-elevation five-needle pines ( <i>Pinus longaeva</i> and <i>Pinus flexilis</i> ) in sky-island ecosystems of the North American Great Basin. <i>Science of the Total Environment</i> , <b>2020</b> , 739, 139861	10.2	9

32	Diurnal variations of needle water isotopic ratios in two pine species. <i>Trees - Structure and Function</i> , <b>2010</b> , 24, 585-595	2.6	9
31	On tree longevity. <i>New Phytologist</i> , <b>2021</b> , 231, 1318-1337	9.8	9
30	Dendroclimatic Reconstruction at Kilometer-Scale Grid Points: A Case Study from the Great Basin of North America. <i>Journal of Hydrometeorology</i> , <b>2014</b> , 15, 891-906	3.7	8
29	Space-time kriging extension of precipitation variability at 12 km spacing from tree-ring chronologies and its implications for drought analysis		8
28	Long-term survivorship of single-needle pinyon ( <i>Pinus monophylla</i> ) in mixed-conifer ecosystems of the Great Basin, USA. <i>Ecosphere</i> , <b>2013</b> , 4, art120	3.1	7
27	Recent warming at the tropical treeline of North America. <i>Frontiers in Ecology and the Environment</i> , <b>2009</b> , 7, 463-464	5.5	7
26	Dating old hollow trees by applying a multistep tree-ring and radiocarbon procedure to trunk and exposed roots. <i>MethodsX</i> , <b>2018</b> , 5, 495-502	1.9	7
25	Paleoecology grand challenge. <i>Frontiers in Ecology and Evolution</i> , <b>2014</b> , 2,	3.7	6
24	From Dendrochronology to Allometry. <i>Forests</i> , <b>2020</b> , 11, 146	2.8	5
23	A hydrological record extension model for reconstructing streamflows from tree-ring chronologies. <i>Hydrological Processes</i> , <b>2015</b> , 29, 544-556	3.3	5
22	Dendrohydrology in 2050: Challenges and Opportunities <b>2012</b> , 355-362		5
21	Fuel Analysis and Potential Fire Behavior in Mixed Conifer Woodlands of the Great Basin, Nevada, Usa. <i>Physical Geography</i> , <b>2012</b> , 33, 205-228	1.8	5
20	Treeline Dendroclimatology in the North American Tropics. <i>PAGES News</i> , <b>2002</b> , 10, 9-10		5
19	Seasonal Analysis of the 2011-2017 North American Monsoon near its Northwest Boundary. <i>Atmosphere</i> , <b>2019</b> , 10, 420	2.7	4
18	The Fourth Dimension of Interdisciplinary Modeling. <i>Journal of Contemporary Water Research and Education</i> , <b>2013</b> , 152, 42-48	1.2	4
17	Fire history of mixed conifer ecosystems in the Great Basin/Mojave Deserts transition zone, Nevada, USA. <i>Trees - Structure and Function</i> , <b>2013</b> , 27, 1789-1803	2.6	4
16	Application of Dendrochronology to Historical Charcoal-Production Sites in the Great Basin, United States. <i>Historical Archaeology</i> , <b>2013</b> , 47, 103-119	0.5	4
15	Assessing Near Surface Hydrologic Processes and Plant Response over a 1600 m Mountain Valley Gradient in the Great Basin, NV, U.S.A.. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 420	3	4

14	The tree-ring interpolation model (TRIM) and its application to <i>Pinus monophylla</i> chronologies in the Great Basin of North America. <i>Forestry</i> , <b>2014</b> , 87, 582-597	2.2	3
13	A watershed modeling approach to streamflow reconstruction from tree-ring records. <i>Environmental Research Letters</i> , <b>2008</b> , 3, 029801	6.2	3
12	Architecting Climate Change Data Infrastructure for Nevada. <i>Lecture Notes in Business Information Processing</i> , <b>2011</b> , 354-365	0.6	3
11	Post-Wildfire Regeneration in a Sky-Island Mixed- Conifer Ecosystem of the North American Great Basin. <i>Forests</i> , <b>2020</b> , 11, 900	2.8	3
10	Identifying the 9930-94 CE Miyake Event in the Oldest Dated Living Tree in Europe. <i>Radiocarbon</i> , <b>2019</b> , 61, 1317-1325	4.6	2
9	Reconstruction of seasonal and water-year precipitation anomalies from tree-ring records of the southwestern United States. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2020</b> , 547, 109689	2.9	2
8	Hierarchical modeling of space-time dendroclimatic fields: Comparing a frequentist and a Bayesian approach. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2019</b> , 51, 115-127	1.8	2
7	RESPONSE OF LODGEPOLE PINE GROWTH TO CO <sub>2</sub> DEGASSING AT MAMMOTH MOUNTAIN, CALIFORNIA. <i>Ecology</i> , <b>1999</b> , 80, 2420-2426	4.6	2
6	Wood Anatomy of Douglas-Fir in Eastern Arizona and Its Relationship With Pacific Basin Climate. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 702442	6.2	2
5	Mixed Multivariate Models for Random Sums and Maxima. <i>Statistical Science and Interdisciplinary Research</i> , <b>2009</b> , 145-171		1
4	Tree-Ring Evidence for the 1913 Eruption of Volcā de Fuego de Colima, Mexico. <i>Advances in Global Change Research</i> , <b>2010</b> , 453-464	1.2	1
3	Inter-specific transpiration differences between aspen, spruce, and pine in a sky-island ecosystem of the North American Great Basin. <i>Forest Ecology and Management</i> , <b>2021</b> , 491, 119157	3.9	1
2	Water-Use Efficiency of Co-occurring Sky-Island Pine Species in the North American Great Basin.. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 787297	6.2	
1	FIRE HISTORY OF AN OLD-GROWTH PONDEROSA PINE STAND IN THE SHEEP RANGE, DESERT NATIONAL WILDLIFE REFUGE, NEVADA, USA. <i>Tree-Ring Research</i> , <b>2019</b> , 75, 127	1	