

Christof Bigler

List of Publications by Year in descending order

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68
papers

5,586
citations

126907

33
h-index

102487

66
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70
all docs

70
docs citations

70
times ranked

7356
citing authors

#	ARTICLE	IF	CITATIONS
1	Lessons learned from a long-term irrigation experiment in a dry Scots pine forest: Impacts on traits and functioning. <i>Ecological Monographs</i> , 2022, 92, e1507.	5.4	15
2	Temperature rather than individual growing period length determines radial growth of sessile oak in the Pyrenees. <i>Agricultural and Forest Meteorology</i> , 2022, 317, 108885.	4.8	11
3	Legacies of past forest management determine current responses to severe drought events of conifer species in the Romanian Carpathians. <i>Science of the Total Environment</i> , 2021, 751, 141851.	8.0	12
4	Light availability predicts mortality probability of conifer saplings in Swiss mountain forests better than radial growth and tree size. <i>Forest Ecology and Management</i> , 2021, 479, 118607.	3.2	3
5	Abiotic and biotic determinants of height growth of <i>Picea abies</i> regeneration in small forest gaps in the Swiss Alps. <i>Forest Ecology and Management</i> , 2021, 490, 119076.	3.2	6
6	Post-glacial re-colonization and natural selection have shaped growth responses of silver fir across Europe. <i>Science of the Total Environment</i> , 2021, 779, 146393.	8.0	14
7	Climate sensitivity and drought seasonality determine post-drought growth recovery of <i>Quercus petraea</i> and <i>Quercus robur</i> in Europe. <i>Science of the Total Environment</i> , 2021, 784, 147222.	8.0	61
8	Spatial patterns of living and dead small trees in subalpine Norway spruce forest reserves in Switzerland. <i>Forest Ecology and Management</i> , 2021, 494, 119315.	3.2	3
9	Tree recruitment is determined by stand structure and shade tolerance with uncertain role of climate and water relations. <i>Ecology and Evolution</i> , 2021, 11, 12182-12203.	1.9	15
10	Premature leaf discoloration of European deciduous trees is caused by drought and heat in late spring and cold spells in early fall. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108492.	4.8	35
11	Phenological shifts induced by climate change amplify drought for broad-leaved trees at low elevations in Switzerland. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108485.	4.8	22
12	TRY plant trait database "enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
13	Disturbances and Climate Drive Structure, Stability, and Growth in Mixed Temperate Old-growth Rainforests in the Caucasus. <i>Ecosystems</i> , 2020, 23, 1170-1185.	3.4	9
14	Growth and resource allocation of juvenile European beech and sycamore maple along light availability gradients in uneven-aged forests. <i>Forest Ecology and Management</i> , 2020, 474, 118314.	3.2	14
15	Forest and woodland replacement patterns following drought-related mortality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29720-29729.	7.1	99
16	Low growth resilience to drought is related to future mortality risk in trees. <i>Nature Communications</i> , 2020, 11, 545.	12.8	228
17	Early emergence increases survival of tree seedlings in Central European temperate forests despite severe late frost. <i>Ecology and Evolution</i> , 2019, 9, 8238-8252.	1.9	20
18	Contrasting resistance and resilience to extreme drought and late spring frost in five major European tree species. <i>Global Change Biology</i> , 2019, 25, 3781-3792.	9.5	152

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19	Daily Maximum Temperatures Induce Lagged Effects on Leaf Unfolding in Temperate Woody Species Across Large Elevational Gradients. <i>Frontiers in Plant Science</i> , 2019, 10, 398.	3.6	14
20	Compound-specific carbon isotope patterns in needles of conifer tree species from the Swiss National Park under recent climate change. <i>Plant Physiology and Biochemistry</i> , 2019, 139, 264-272.	5.8	11
21	How do tree mortality models from combined tree-ring and inventory data affect projections of forest succession?. <i>Forest Ecology and Management</i> , 2019, 433, 606-617.	3.2	17
22	Tree growth responses to changing temperatures across space and time: a fine-scale analysis at the treeline in the Swiss Alps. <i>Trees - Structure and Function</i> , 2018, 32, 645-660.	1.9	36
23	Pervasive effects of drought on tree growth across a wide climatic gradient in the temperate forests of the Caucasus. <i>Global Ecology and Biogeography</i> , 2018, 27, 1314-1325.	5.8	34
24	Climate-induced shifts in leaf unfolding and frost risk of European trees and shrubs. <i>Scientific Reports</i> , 2018, 8, 9865.	3.3	74
25	Compound-Specific Carbon Isotopes and Concentrations of Carbohydrates and Organic Acids as Indicators of Tree Decline in Mountain Pine. <i>Forests</i> , 2018, 9, 363.	2.1	12
26	Early-Warning Signals of Individual Tree Mortality Based on Annual Radial Growth. <i>Frontiers in Plant Science</i> , 2018, 9, 1964.	3.6	117
27	Among-tree variability and feedback effects result in different growth responses to climate change at the upper treeline in the Swiss Alps. <i>Ecology and Evolution</i> , 2017, 7, 7937-7953.	1.9	23
28	A synthesis of radial growth patterns preceding tree mortality. <i>Global Change Biology</i> , 2017, 23, 1675-1690.	9.5	394
29	Trade-Offs between Growth Rate, Tree Size and Lifespan of Mountain Pine (<i>Pinus montana</i>) in the Swiss National Park. <i>PLoS ONE</i> , 2016, 11, e0150402.	2.5	52
30	Towards a common methodology for developing logistic tree mortality models based on ring-width data. <i>Ecological Applications</i> , 2016, 26, 1827-1841.	3.8	36
31	Drought and frost contribute to abrupt growth decreases before tree mortality in nine temperate tree species. <i>Forest Ecology and Management</i> , 2016, 382, 51-63.	3.2	76
32	Site-specific water-use strategies of mountain pine and larch to cope with recent climate change. <i>Tree Physiology</i> , 2016, 36, 942-953.	3.1	24
33	Quantifying the effects of drought on abrupt growth decreases of major tree species in Switzerland. <i>Ecology and Evolution</i> , 2016, 6, 3555-3570.	1.9	45
34	A climate-sensitive empirical growth and yield model for forest management planning of even-aged beech stands. <i>European Journal of Forest Research</i> , 2016, 135, 263-282.	2.5	16
35	Contrasting responses of Central Asian rock glaciers to global warming. <i>Scientific Reports</i> , 2015, 5, 8228.	3.3	57
36	Structural patterns of beech and silver fir suggest stability and resilience of the virgin forest Sinca in the Southern Carpathians, Romania. <i>Forest Ecology and Management</i> , 2015, 356, 184-195.	3.2	41

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37	Disentangling the effects of competition and climate on individual tree growth: A retrospective and dynamic approach in Scots pine. <i>Forest Ecology and Management</i> , 2015, 358, 12-25.	3.2	100
38	Spatial interactions between storm damage and subsequent infestations by the European spruce bark beetle. <i>Forest Ecology and Management</i> , 2014, 318, 167-174.	3.2	80
39	Precision and accuracy of tree-ring-based death dates of mountain pines in the Swiss National Park. <i>Trees - Structure and Function</i> , 2013, 27, 1703-1712.	1.9	16
40	Effects of salvage logging and sanitation felling on bark beetle (<i>Ips typographus</i> L.) infestations. <i>Forest Ecology and Management</i> , 2013, 305, 273-281.	3.2	100
41	Towards non-destructive estimation of tree age. <i>Forest Ecology and Management</i> , 2013, 304, 286-295.	3.2	11
42	Driving factors of a vegetation shift from Scots pine to pubescent oak in dry Alpine forests. <i>Global Change Biology</i> , 2013, 19, 229-240.	9.5	280
43	A predictive framework to assess spatio-temporal variability of infestations by the European spruce bark beetle. <i>Ecography</i> , 2013, 36, 1208-1217.	4.5	61
44	Estimating the age-diameter relationship of oak species in Switzerland using nonlinear mixed-effects models. <i>European Journal of Forest Research</i> , 2013, 132, 751-764.	2.5	18
45	Eichenrückgang in Schweizer Naturwaldreservaten. <i>Schweizerische Zeitschrift Für Forstwesen</i> , 2013, 164, 328-336.	0.1	0
46	Do small-grain processes matter for landscape scale questions? Sensitivity of a forest landscape model to the formulation of tree growth rate. <i>Landscape Ecology</i> , 2012, 27, 697-711.	4.2	31
47	Effects of growth rates, tree morphology and site conditions on longevity of Norway spruce in the northern Swiss Alps. <i>European Journal of Forest Research</i> , 2012, 131, 1117-1125.	2.5	17
48	Fifty years of natural succession in Swiss forest reserves: changes in stand structure and mortality rates of oak and beech. <i>Journal of Vegetation Science</i> , 2012, 23, 892-905.	2.2	53
49	Analysis and modelling of tree succession on a recent rockslide deposit. <i>Plant Ecology</i> , 2012, 213, 35-46.	1.6	46
50	Long-term effects of increment coring on Norway spruce mortality. <i>Canadian Journal of Forest Research</i> , 2011, 41, 2326-2336.	1.7	17
51	Synergistic effects of past historical logging and drought on the decline of Pyrenean silver fir forests. <i>Forest Ecology and Management</i> , 2011, 262, 759-769.	3.2	144
52	Will the CO ₂ fertilization effect in forests be offset by reduced tree longevity?. <i>Oecologia</i> , 2011, 165, 533-544.	2.0	93
53	Changes in litter and dead wood loads following tree death beneath subalpine conifer species in northern Colorado. <i>Canadian Journal of Forest Research</i> , 2011, 41, 331-340.	1.7	17
54	Poor methodology for predicting large-scale tree die-off. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, E106-E106.	7.1	34

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55	Increased early growth rates decrease longevities of conifers in subalpine forests. <i>Oikos</i> , 2009, 118, 1130-1138.	2.7	138
56	Predicting tree mortality from growth data: how virtual ecologists can help real ecologists. <i>Journal of Ecology</i> , 2008, 96, 174-187.	4.0	8
57	Growth-mortality relationships as indicators of life-history strategies: a comparison of nine tree species in unmanaged European forests. <i>Oikos</i> , 2008, 117, 815-828.	2.7	45
58	Drought induces lagged tree mortality in a subalpine forest in the Rocky Mountains. <i>Oikos</i> , 2007, 116, 1983-1994.	2.7	259
59	Linking Increasing Drought Stress to Scots Pine Mortality and Bark Beetle Infestations. <i>Scientific World Journal</i> , The, 2007, 7, 231-239.	2.1	85
60	Predicting tree death for <i>Fagus sylvatica</i> and <i>Abies alba</i> using permanent plot data. <i>Journal of Vegetation Science</i> , 2007, 18, 525-534.	2.2	41
61	Predicting tree death for <i>Fagus sylvatica</i> and <i>Abies alba</i> using permanent plot data. <i>Journal of Vegetation Science</i> , 2007, 18, 525.	2.2	1
62	Drought as an Inciting Mortality Factor in Scots Pine Stands of the Valais, Switzerland. <i>Ecosystems</i> , 2006, 9, 330-343.	3.4	429
63	Optimisation of tree mortality models based on growth patterns. <i>Ecological Modelling</i> , 2006, 197, 196-206.	2.5	18
64	MULTIPLE DISTURBANCE INTERACTIONS AND DROUGHT INFLUENCE FIRE SEVERITY IN ROCKY MOUNTAIN SUBALPINE FORESTS. <i>Ecology</i> , 2005, 86, 3018-3029.	3.2	190
65	Assessing the performance of theoretical and empirical tree mortality models using tree-ring series of Norway spruce. <i>Ecological Modelling</i> , 2004, 174, 225-239.	2.5	39
66	Growth patterns as indicators of impending tree death in silver fir. <i>Forest Ecology and Management</i> , 2004, 199, 183-190.	3.2	95
67	PREDICTING THE TIME OF TREE DEATH USING DENDROCHRONOLOGICAL DATA. , 2004, 14, 902-914.		141
68	Growth-dependent tree mortality models based on tree rings. <i>Canadian Journal of Forest Research</i> , 2003, 33, 210-221.	1.7	143