

# Zoran Nestic

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

7,864  
citations

53794

45  
h-index

60623

81  
g-index

82  
all docs

82  
docs citations

82  
times ranked

6039  
citing authors

#	ARTICLE	IF	CITATIONS
1	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	5.3	646
2	Inter-annual variability in the leaf area index of a boreal aspen-hazelnut forest in relation to net ecosystem production. <i>Agricultural and Forest Meteorology</i> , 2004, 126, 237-255.	4.8	430
3	Annual cycles of water vapour and carbon dioxide fluxes in and above a boreal aspen forest. <i>Global Change Biology</i> , 1996, 2, 219-229.	9.5	391
4	Carbon, energy and water fluxes at mature and disturbed forest sites, Saskatchewan, Canada. <i>Agricultural and Forest Meteorology</i> , 2006, 136, 237-251.	4.8	273
5	Increased carbon sequestration by a boreal deciduous forest in years with a warm spring. <i>Geophysical Research Letters</i> , 2000, 27, 1271-1274.	4.0	272
6	Interpreting the dependence of soil respiration on soil temperature and water content in a boreal aspen stand. <i>Agricultural and Forest Meteorology</i> , 2006, 140, 220-235.	4.8	262
7	Sensitivity and uncertainty of the carbon balance of a Pacific Northwest Douglas-fir forest during an El Niño/La Niña cycle. <i>Agricultural and Forest Meteorology</i> , 2004, 123, 201-219.	4.8	254
8	Relationship between soil CO <sub>2</sub> concentrations and forest-floor CO <sub>2</sub> effluxes. <i>Agricultural and Forest Meteorology</i> , 2005, 130, 176-192.	4.8	243
9	Climatic controls on the carbon and water balances of a boreal aspen forest, 1994-2003. <i>Global Change Biology</i> , 2007, 13, 561-576.	9.5	238
10	Ecophysiological controls on the carbon balances of three southern boreal forests. <i>Agricultural and Forest Meteorology</i> , 2003, 117, 53-71.	4.8	228
11	How climate and vegetation type influence evapotranspiration and water use efficiency in Canadian forest, peatland and grassland ecosystems. <i>Agricultural and Forest Meteorology</i> , 2012, 153, 14-30.	4.8	224
12	Surface energy balance closure by the eddy-covariance method above three boreal forest stands and implications for the measurement of the CO <sub>2</sub> flux. <i>Agricultural and Forest Meteorology</i> , 2006, 140, 322-337.	4.8	205
13	Measuring forest floor CO <sub>2</sub> fluxes in a Douglas-fir forest. <i>Agricultural and Forest Meteorology</i> , 2002, 110, 299-317.	4.8	199
14	Carbon dioxide fluxes in coastal Douglas-fir stands at different stages of development after clearcut harvesting. <i>Agricultural and Forest Meteorology</i> , 2006, 140, 6-22.	4.8	189
15	Effects of climatic variability on the annual carbon sequestration by a boreal aspen forest. <i>Global Change Biology</i> , 1999, 5, 41-53.	9.5	180
16	Effect of soil water stress on soil respiration and its temperature sensitivity in an 18-year-old temperate Douglas-fir stand. <i>Global Change Biology</i> , 2008, 14, 1305-1318.	9.5	168
17	Separating physiologically and directionally induced changes in PRI using BRDF models. <i>Remote Sensing of Environment</i> , 2008, 112, 2777-2788.	11.0	165
18	Seasonal variation and partitioning of ecosystem respiration in a southern boreal aspen forest. <i>Agricultural and Forest Meteorology</i> , 2004, 125, 207-223.	4.8	158

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19	A model of the production and transport of CO <sub>2</sub> in soil: predicting soil CO <sub>2</sub> concentrations and CO <sub>2</sub> efflux from a forest floor. <i>Agricultural and Forest Meteorology</i> , 2004, 124, 219-236.	4.8	130
20	Response of Net Ecosystem Productivity of Three Boreal Forest Stands to Drought. <i>Ecosystems</i> , 2006, 9, 1128-1144.	3.4	129
21	Turbulent Flux Measurements Above and Below the Overstory of a Boreal Aspen Forest. <i>Boundary-Layer Meteorology</i> , 1998, 89, 109-140.	2.3	127
22	Evapotranspiration and water use efficiency in different-aged Pacific Northwest Douglas-fir stands. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1168-1178.	4.8	124
23	Effects of seasonal and interannual climate variability on net ecosystem productivity of boreal deciduous and conifer forests. <i>Canadian Journal of Forest Research</i> , 2002, 32, 878-891.	1.7	120
24	Impact of mountain pine beetle on the net ecosystem production of lodgepole pine stands in British Columbia. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 254-264.	4.8	119
25	Biophysical controls on rhizospheric and heterotrophic components of soil respiration in a boreal black spruce stand. <i>Tree Physiology</i> , 2008, 28, 161-171.	3.1	112
26	Carbon sequestration in boreal jack pine stands following harvesting. <i>Global Change Biology</i> , 2009, 15, 1475-1487.	9.5	112
27	Components of ecosystem respiration and an estimate of net primary productivity of an intermediate-aged Douglas-fir stand. <i>Agricultural and Forest Meteorology</i> , 2007, 144, 44-57.	4.8	108
28	Remote sensing of photosynthetic light-use efficiency across two forested biomes: Spatial scaling. <i>Remote Sensing of Environment</i> , 2010, 114, 2863-2874.	11.0	107
29	Comparison of carbon dynamics and water use efficiency following fire and harvesting in Canadian boreal forests. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 783-794.	4.8	105
30	Annual and seasonal variability of sensible and latent heat fluxes above a coastal Douglas-fir forest, British Columbia, Canada. <i>Agricultural and Forest Meteorology</i> , 2003, 115, 109-125.	4.8	102
31	The seasonal water and energy exchange above and within a boreal aspen forest. <i>Journal of Hydrology</i> , 2001, 245, 118-136.	5.4	100
32	Energy balance closure at the BERMS flux towers in relation to the water balance of the White Gull Creek watershed 1999-2009. <i>Agricultural and Forest Meteorology</i> , 2012, 153, 3-13.	4.8	99
33	A comparison of sap flow and eddy fluxes of water vapor from a boreal deciduous forest. <i>Journal of Geophysical Research</i> , 1997, 102, 28929-28937.	3.3	85
34	Instrumentation and approach for unattended year round tower based measurements of spectral reflectance. <i>Computers and Electronics in Agriculture</i> , 2007, 56, 72-84.	7.7	81
35	Year-round observations of the energy and water vapour fluxes above a boreal black spruce forest. <i>Hydrological Processes</i> , 2003, 17, 3581-3600.	2.6	77
36	Net ecosystem production of a Douglas-fir stand for 3 years following clearcut harvesting. <i>Global Change Biology</i> , 2005, 11, 450-464.	9.5	68

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37	Factors controlling the interannual variability in the carbon balance of a southern boreal black spruce forest. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	65
38	Influence of temperature and drought on seasonal and interannual variations of soil, bole and ecosystem respiration in a boreal aspen stand. <i>Agricultural and Forest Meteorology</i> , 2006, 140, 203-219.	4.8	61
39	Net ecosystem productivity of boreal aspen forests under drought and climate change: Mathematical modelling with Ecosys. <i>Agricultural and Forest Meteorology</i> , 2006, 140, 152-170.	4.8	56
40	Soil CO <sub>2</sub> efflux in contrasting boreal deciduous and coniferous stands and its contribution to the ecosystem carbon balance. <i>Global Change Biology</i> , 2009, 15, 1302-1319.	9.5	52
41	Interannual variability of the carbon balance of three different-aged Douglas-fir stands in the Pacific Northwest. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	52
42	The carbon balance of two lodgepole pine stands recovering from mountain pine beetle attack in British Columbia. <i>Agricultural and Forest Meteorology</i> , 2012, 153, 82-93.	4.8	51
43	Net ecosystem productivity of boreal jack pine stands regenerating from clearcutting under current and future climates. <i>Global Change Biology</i> , 2007, 13, 1423-1440.	9.5	49
44	Detection of foliage conditions and disturbance from multi-angular high spectral resolution remote sensing. <i>Remote Sensing of Environment</i> , 2009, 113, 421-434.	11.0	48
45	A NEW, AUTOMATED, MULTIANGULAR RADIOMETER INSTRUMENT FOR TOWER-BASED OBSERVATIONS OF CANOPY REFLECTANCE (AMSPEC II). <i>Instrumentation Science and Technology</i> , 2010, 38, 319-340.	1.8	47
46	Using automated non-steady-state chamber systems for making continuous long-term measurements of soil CO <sub>2</sub> efflux in forest ecosystems. <i>Agricultural and Forest Meteorology</i> , 2012, 161, 57-65.	4.8	47
47	Carbon dioxide exchange and nocturnal processes over a mixed deciduous forest. <i>Agricultural and Forest Meteorology</i> , 1996, 81, 13-29.	4.8	45
48	Energy Balance Closure Using Eddy Covariance Above Two Different Land Surfaces and Implications for CO <sub>2</sub> Flux Measurements. <i>Boundary-Layer Meteorology</i> , 2010, 136, 193-218.	2.3	43
49	Impact of nitrogen fertilization on carbon and water balances in a chronosequence of three Douglas-fir stands in the Pacific Northwest. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 208-218.	4.8	42
50	Soil CO <sub>2</sub> and N <sub>2</sub> O flux dynamics in a nitrogen-fertilized Pacific Northwest Douglas-fir stand. <i>Geoderma</i> , 2010, 157, 118-125.	5.1	41
51	Annual greenhouse gas budget for a bog ecosystem undergoing restoration by rewetting. <i>Biogeosciences</i> , 2017, 14, 2799-2814.	3.3	40
52	Seasonal controls on interannual variability in carbon dioxide exchange of a near-end-of rotation Douglas-fir stand in the Pacific Northwest, 1997-2006. <i>Global Change Biology</i> , 2009, 15, 1962-1981.	9.5	39
53	Evapotranspiration and canopy characteristics of two lodgepole pine stands following mountain pine beetle attack. <i>Hydrological Processes</i> , 2014, 28, 3326-3340.	2.6	38
54	Effect of clearcut harvesting on the carbon balance of a Douglas-fir forest. <i>Agricultural and Forest Meteorology</i> , 2015, 203, 30-42.	4.8	37

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55	N <sub>2</sub> O emissions and carbon sequestration in a nitrogen-fertilized Douglas fir stand. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	35
56	A mobile sensor network to map carbon dioxide emissions in urban environments. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 645-665.	3.1	30
57	Seasonal variation in the canopy color of temperate evergreen conifer forests. <i>New Phytologist</i> , 2021, 229, 2586-2600.	7.3	30
58	Eight years of forest-floor CO <sub>2</sub> exchange in a boreal black spruce forest: Spatial integration and long-term temporal trends. <i>Agricultural and Forest Meteorology</i> , 2014, 184, 25-35.	4.8	28
59	Divergent long-term trends and interannual variation in ecosystem resource use efficiencies of a southern boreal old black spruce forest 1999–2017. <i>Global Change Biology</i> , 2019, 25, 3056-3069.	9.5	24
60	Carbon balance of a partially harvested mixed conifer forest following mountain pine beetle attack and its comparison to a clear-cut. <i>Biogeosciences</i> , 2013, 10, 5451-5463.	3.3	22
61	A Simple Method of Estimating Scalar Fluxes Over Forests. <i>Boundary-Layer Meteorology</i> , 2009, 132, 401-414.	2.3	16
62	Effects of forest tent caterpillar defoliation on carbon and water fluxes in a boreal aspen stand. <i>Agricultural and Forest Meteorology</i> , 2018, 253-254, 176-189.	4.8	16
63	Incorporating diffuse photosynthetically active radiation in a single-leaf model of canopy photosynthesis for a 56-year-old Douglas-fir forest. <i>International Journal of Biometeorology</i> , 2009, 53, 135-148.	3.0	15
64	Water balance, surface conductance and water use efficiency of two young hybrid-poplar plantations in Canada's aspen parkland. <i>Agricultural and Forest Meteorology</i> , 2017, 246, 256-271.	4.8	14
65	Biophysical controls of soil CO <sub>2</sub> efflux in two coastal Douglas-fir stands at different temporal scales. <i>Agricultural and Forest Meteorology</i> , 2012, 153, 134-143.	4.8	13
66	Measurements and simulations using the 3-PG model of the water balance and water use efficiency of a lodgepole pine stand following mountain pine beetle attack. <i>Forest Ecology and Management</i> , 2017, 393, 89-104.	3.2	12
67	Simulation of net ecosystem productivity of a lodgepole pine forest after mountain pine beetle attack using a modified version of 3-PG. <i>Forest Ecology and Management</i> , 2018, 412, 41-52.	3.2	11
68	Technological Advancement in Tower-Based Canopy Reflectance Monitoring: The AMSPEC-III System. <i>Sensors</i> , 2015, 15, 32020-32030.	3.8	9
69	Long-term impact of nitrogen fertilization on carbon and water fluxes in a Douglas-fir stand in the Pacific Northwest. <i>Forest Ecology and Management</i> , 2020, 455, 117645.	3.2	9
70	Protection from wintertime rainfall reduces nutrient losses and greenhouse gas emissions during the decomposition of poultry and horse manure-based amendments. <i>Journal of the Air and Waste Management Association</i> , 2018, 68, 377-388.	1.9	7
71	Partitioning of net ecosystem exchange into photosynthesis and respiration using continuous stable isotope measurements in a Pacific Northwest Douglas-fir forest ecosystem. <i>Agricultural and Forest Meteorology</i> , 2020, 292-293, 108109.	4.8	7
72	Reassessment of the climatic controls on the carbon and water fluxes of a boreal aspen forest over 1996–2016: Changing sensitivity to long-term climatic conditions. <i>Global Change Biology</i> , 2022, 28, 4605-4619.	9.5	7

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73	Quantifying trade-offs among on-farm and off-farm fertility sources to make vegetable organic farming systems more sustainable. <i>Agriculture, Ecosystems and Environment</i> , 2019, 286, 106657.	5.3	6
74	Portable Chamber System for Measuring Chloroform Fluxes from Terrestrial Environments – Methodological Challenges. <i>Environmental Science &amp; Technology</i> , 2013, 47, 14298-14305.	10.0	5
75	Greater Impacts of Incubation Temperature and Moisture on Carbon and Nitrogen Cycling in Poultry Relative to Horse Manure-based Soil Amendments. <i>Journal of Environmental Quality</i> , 2018, 47, 914-921.	2.0	5
76	Greenhouse gas exchange over a conventionally managed highbush blueberry field in the Lower Fraser Valley in British Columbia, Canada. <i>Agricultural and Forest Meteorology</i> , 2020, 295, 108152.	4.8	4
77	Assessment of CO2 Levels Prior to Injection Across the Quest Sequestration Lease Area. <i>Energy Procedia</i> , 2017, 114, 2836-2846.	1.8	2
78	Combining flux variance similarity partitioning with artificial neural networks to gap-fill measurements of net ecosystem production of a Pacific Northwest Douglas-fir stand. <i>Agricultural and Forest Meteorology</i> , 2021, 303, 108382.	4.8	2
79	Biophysical Impacts of Historical Disturbances, Restoration Strategies, and Vegetation Types in a Peatland Ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006532.	3.0	2
80	Carbon storage recovery in surviving lodgepole pine ( <i>Pinus contorta</i> var. <i>latifolia</i> ) 11 years after mountain pine beetle attack in northern British Columbia, Canada. <i>Canadian Journal of Forest Research</i> , 2020, 50, 1383-1390.	1.7	2
81	Species and stand-age driven differences in photochemical reflectance index and light use efficiency across four temperate forests. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 98, 102308.	2.8	0