

Brendan M Rogers

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

6,200
citations

109321

35
h-index

133252

59
g-index

84
all docs

84
docs citations

84
times ranked

8193
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying Barriers to Estimating Carbon Release From Interacting Feedbacks in a Warming Arctic. <i>Frontiers in Climate</i> , 2022, 3, .	2.8	9
2	Bottom-up drivers of future fire regimes in western boreal North America. <i>Environmental Research Letters</i> , 2022, 17, 025006.	5.2	15
3	The ABCflux database: Arcticâ€“boreal CO ₂ flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. <i>Earth System Science Data</i> , 2022, 14, 179-208.	9.9	22
4	Climate change, fire return intervals and the growing risk of permanent forest loss in boreal Eurasia. <i>Science of the Total Environment</i> , 2022, 831, 154885.	8.0	15
5	Wildfire controls on land surface properties in mixed conifer and ponderosa pine forests of Sierra Nevada and Klamath mountains, Western US. <i>Agricultural and Forest Meteorology</i> , 2022, 320, 108939.	4.8	1
6	Escalating carbon emissions from North American boreal forest wildfires and the climate mitigation potential of fire management. <i>Science Advances</i> , 2022, 8, eabl7161.	10.3	23
7	Future reversal of warming-enhanced vegetation productivity in the Northern Hemisphere. <i>Nature Climate Change</i> , 2022, 12, 581-586.	18.8	47
8	Influence of atmospheric teleconnections on interannual variability of Arctic-boreal fires. <i>Science of the Total Environment</i> , 2022, 838, 156550.	8.0	5
9	Permafrost carbon feedbacks threaten global climate goals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	88
10	Overwintering fires in boreal forests. <i>Nature</i> , 2021, 593, 399-404.	27.8	70
11	Historic declines in growth portend trembling aspen death during a contemporary leaf miner outbreak in Alaska. <i>Ecosphere</i> , 2021, 12, e03569.	2.2	10
12	The Impacts of Climate and Wildfire on Ecosystem Gross Primary Productivity in Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006078.	3.0	12
13	Addressing biases in Arcticâ€“boreal carbon cycling in the Community Land Model Version 5. <i>Geoscientific Model Development</i> , 2021, 14, 3361-3382.	3.6	14
14	Statistical upscaling of ecosystem CO ₂ fluxes across the terrestrial tundra and boreal domain: Regional patterns and uncertainties. <i>Global Change Biology</i> , 2021, 27, 4040-4059.	9.5	83
15	Evaluating the Differenced Normalized Burn Ratio for Assessing Fire Severity Using Sentinel-2 Imagery in Northeast Siberian Larch Forests. <i>Remote Sensing</i> , 2021, 13, 2311.	4.0	25
16	Direct and longer-term carbon emissions from arctic-boreal fires: A short review of recent advances. <i>Current Opinion in Environmental Science and Health</i> , 2021, 23, 100277.	4.1	28
17	Increasing fire and logging disturbances in Siberian boreal forests: a case study of the Angara region. <i>Environmental Research Letters</i> , 2021, 16, 115007.	5.2	13
18	Increasing fire and the decline of fire adapted black spruce in the boreal forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	107

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19	Impacts of pre-fire conifer density and wildfire severity on ecosystem structure and function at the forest-tundra ecotone. <i>PLoS ONE</i> , 2021, 16, e0258558.	2.5	6
20	Climate change decreases the cooling effect from postfire albedo in boreal North America. <i>Global Change Biology</i> , 2020, 26, 1592-1607.	9.5	29
21	Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000652.	23.0	39
22	Fuel availability not fire weather controls boreal wildfire severity and carbon emissions. <i>Nature Climate Change</i> , 2020, 10, 1130-1136.	18.8	82
23	The Fire and Tree Mortality Database, for empirical modeling of individual tree mortality after fire. <i>Scientific Data</i> , 2020, 7, 194.	5.3	13
24	Patterns of Ecosystem Structure and Wildfire Carbon Combustion Across Six Ecoregions of the North American Boreal Forest. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	18
25	Siberian and temperate ecosystems shape Northern Hemisphere atmospheric CO ₂ seasonal amplification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21079-21087.	7.1	27
26	Wildfire combustion and carbon stocks in the southern Canadian boreal forest: Implications for a warming world. <i>Global Change Biology</i> , 2020, 26, 6062-6079.	9.5	49
27	Primary Forests Are Undervalued in the Climate Emergency. <i>BioScience</i> , 2020, 70, 445-445.	4.9	14
28	Focus on changing fire regimes: interactions with climate, ecosystems, and society. <i>Environmental Research Letters</i> , 2020, 15, 030201.	5.2	105
29	Fire as a fundamental ecological process: Research advances and frontiers. <i>Journal of Ecology</i> , 2020, 108, 2047-2069.	4.0	281
30	Importance of tree- and species-level interactions with wildfire, climate, and soils in interior Alaska: Implications for forest change under a warming climate. <i>Ecological Modelling</i> , 2019, 409, 108765.	2.5	39
31	Expansion of high-latitude deciduous forests driven by interactions between climate warming and fire. <i>Nature Plants</i> , 2019, 5, 952-958.	9.3	101
32	Impacts of climate and insect herbivory on productivity and physiology of trembling aspen (<i>Populus</i>)	8.2	27
33	Increasing wildfires threaten historic carbon sink of boreal forest soils. <i>Nature</i> , 2019, 572, 520-523.	27.8	293
34	Large loss of CO ₂ in winter observed across the northern permafrost region. <i>Nature Climate Change</i> , 2019, 9, 852-857.	18.8	225
35	Detecting early warning signals of tree mortality in boreal North America using multiscale satellite data. <i>Global Change Biology</i> , 2018, 24, 2284-2304.	9.5	81
36	Missing pieces to modeling the Arctic-Boreal puzzle. <i>Environmental Research Letters</i> , 2018, 13, 020202.	5.2	61

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37	Cross-scale controls on carbon emissions from boreal forest megafires. <i>Global Change Biology</i> , 2018, 24, 4251-4265.	9.5	60
38	Biological and geophysical feedbacks with fire in the Earth system. <i>Environmental Research Letters</i> , 2018, 13, 033003.	5.2	198
39	Soil organic layer combustion in boreal black spruce and jack pine stands of the Northwest Territories, Canada. <i>International Journal of Wildland Fire</i> , 2018, 27, 125.	2.4	48
40	Vulnerability of eastern US tree species to climate change. <i>Global Change Biology</i> , 2017, 23, 3302-3320.	9.5	64
41	Lightning as a major driver of recent large fire years in North American boreal forests. <i>Nature Climate Change</i> , 2017, 7, 529-534.	18.8	285
42	Global fire emissions estimates during 1997–2016. <i>Earth System Science Data</i> , 2017, 9, 697-720.	9.9	1,159
43	Fire severity influences the response of soil microbes to a boreal forest fire. <i>Environmental Research Letters</i> , 2016, 11, 035004.	5.2	98
44	Not all droughts are created equal: the impacts of interannual drought pattern and magnitude on grassland carbon cycling. <i>Global Change Biology</i> , 2016, 22, 1809-1820.	9.5	109
45	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
46	Vulnerability of Tree Species to Climate Change in the Appalachian Landscape Conservation Cooperative. , 2016, , 212-233.		3
47	Historical and Projected Climates as a Basis for Climate Change Exposure and Adaptation Potential across the Appalachian Landscape Conservation Cooperative. , 2016, , 78-94.		2
48	Potential Impacts of Climate Change on Vegetation for National Parks in the Eastern United States. , 2016, , 151-173.		2
49	Black carbon aerosol dynamics and isotopic composition in Alaska linked with boreal fire emissions and depth of burn in organic soils. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1977-2000.	4.9	23
50	Daily burned area and carbon emissions from boreal fires in Alaska. <i>Biogeosciences</i> , 2015, 12, 3579-3601.	3.3	50
51	Taking off the training wheels: the properties of a dynamic vegetation model without climate envelopes, CLM4.5(ED). <i>Geoscientific Model Development</i> , 2015, 8, 3593-3619.	3.6	192
52	Influence of tree species on continental differences in boreal fires and climate feedbacks. <i>Nature Geoscience</i> , 2015, 8, 228-234.	12.9	320
53	Quantifying fire-wide carbon emissions in interior Alaska using field measurements and Landsat imagery. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1608-1629.	3.0	39
54	Mapping the daily progression of large wildland fires using MODIS active fire data. <i>International Journal of Wildland Fire</i> , 2014, 23, 655.	2.4	69

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55	Management and climate contributions to satellite-derived active fire trends in the contiguous United States. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 645-660.	3.0	13
56	High-latitude cooling associated with landscape changes from North American boreal forest fires. <i>Biogeosciences</i> , 2013, 10, 699-718.	3.3	71
57	The changing radiative forcing of fires: global model estimates for past, present and future. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10857-10886.	4.9	212
58	Global burned area and biomass burning emissions from small fires. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	578
59	Model comparisons for estimating carbon emissions from North American wildland fire. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	112
60	Impacts of climate change on fire regimes and carbon stocks of the U.S. Pacific Northwest. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	129
61	Climate Change Impacts on Western Pacific Northwest Prairies and Savannas. <i>Northwest Science</i> , 2011, 85, 411-429.	0.2	33
62	Modeling Tamarisk (<i>Tamarix</i> spp.) Habitat and Climate Change Effects in the Northwestern United States. <i>Invasive Plant Science and Management</i> , 2009, 2, 200-215.	1.1	24