Nancy H F French

List of Publications by Year
in descending order

54 papers	4,040 citations	147566 31 h-index	168136 53 g-index
56 all docs	56 docs citations	56 times ranked	4672 citing authors

#	Article	IF	Citations
1	Climate-induced boreal forest change: Predictions versus current observations. Global and Planetary Change, 2007, 56, 274-296.	1.6	619
2	Vulnerability of high-latitude soil organic carbon in North America to disturbance. Journal of Geophysical Research, 2011, 116, .	3.3	337
3	Using Landsat data to assess fire and burn severity in the North American boreal forest region: an overview and summary of results. International Journal of Wildland Fire, 2008, 17, 443.	1.0	276
4	Influences of boreal fire emissions on Northern Hemisphere atmospheric carbon and carbon monoxide. Global Biogeochemical Cycles, 2005, 19, .	1.9	227
5	AVHRR-based mapping of fires in Russia: New products for fire management and carbon cycle studies. Remote Sensing of Environment, 2004, 93, 546-564.	4.6	224
6	Locating and estimating the areal extent of wildfires in alaskan boreal forests using multiple-season AVHRR NDVI composite data. Remote Sensing of Environment, 1995, 51, 263-275.	4.6	193
7	Postfire response of North American boreal forest net primary productivity analyzed with satellite observations. Global Change Biology, 2003, 9, 1145-1157.	4.2	147
8	Uncertainty in estimating carbon emissions from boreal forest fires. Journal of Geophysical Research, 2004, 109, .	3.3	147
9	Evaluation of the composite burn index for assessing fire severity in Alaskan black spruce forests. International Journal of Wildland Fire, 2008, 17, 515.	1.0	133
10	Monitoring of wildfires in Boreal Forests using large area AVHRR NDVI composite image data. Remote Sensing of Environment, 1993, 45, 61-71.	4.6	128
11	Model comparisons for estimating carbon emissions from North American wildland fire. Journal of Geophysical Research, 2011, 116, .	3.3	112
12	Sensitivity of ERS-1 and JERS-1 radar data to biomass and stand structure in Alaskan boreal forest. Remote Sensing of Environment, 1995, 54, 247-260.	4.6	103
13	Evaluating the potential of Landsat TM/ETM+ imagery for assessing fire severity in Alaskan black spruce forests. International Journal of Wildland Fire, 2008, 17, 500.	1.0	100
14	The San Diego 2007 wildfires and Medi-Cal emergency department presentations, inpatient hospitalizations, and outpatient visits: An observational study of smoke exposure periods and a bidirectional case-crossover analysis. PLoS Medicine, 2018, 15, e1002601.	3.9	97
15	Using Remote Sensing to Assess Russian Forest Fire Carbon Emissions. Climatic Change, 2002, 55, 235-249.	1.7	93
16	Estimating release of carbon from 1990 and 1991 forest fires in Alaska. Journal of Geophysical Research, 1995, 100, 2941.	3.3	77
17	Variability in the emission of carbon-based trace gases from wildfire in the Alaskan boreal forest. Journal of Geophysical Research, 2003, 108, FFR 7-1.	3.3	72
18	Mapping fire extent and burn severity in Alaskan tussock tundra: An analysis of the spectral response of tundra vegetation to wildland fire. Remote Sensing of Environment, 2013, 134, 194-209.	4.6	61

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19	Observations of variations in ERS-1 SAR image intensity associated with forest fires in Alaska. IEEE Transactions on Geoscience and Remote Sensing, 1994, 32, 206-210.	2.7	60
20	Impacts of disturbance on the terrestrial carbon budget of North America. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 303-316.	1.3	57
21	Fire in arctic tundra of Alaska: past fire activity, future fire potential, and significance for land management and ecology. International Journal of Wildland Fire, 2015, 24, 1045.	1.0	53
22	The Fire and Smoke Model Evaluation Experimentâ€"A Plan for Integrated, Large Fireâ€"Atmosphere Field Campaigns. Atmosphere, 2019, 10, 66.	1.0	53
23	Controls on Patterns of Biomass Burning in Alaskan Boreal Forests. Ecological Studies, 2000, , 173-196.	0.4	52
24	Initial Observations of Radarsat Imagery at Fire-Disturbed Sites in Interior Alaska. Remote Sensing of Environment, 1999, 68, 89-94.	4.6	44
25	Impact of aging mechanism on model simulated carbonaceous aerosols. Atmospheric Chemistry and Physics, 2013, 13, 6329-6343.	1.9	43
26	Burned area mapping time series in Canada (1984â€"1999) from NOAA-AVHRR LTDR: A comparison with other remote sensing products and fire perimeters. Remote Sensing of Environment, 2012, 117, 407-414.	4.6	42
27	Modeling acute respiratory illness during the 2007 San Diego wildland fires using a coupled emissions-transport system and generalized additive modeling. Environmental Health, 2013, 12, 94.	1.7	42
28	Fire behaviour and smoke modelling: model improvement and measurement needs for next-generation smoke research and forecasting systems. International Journal of Wildland Fire, 2019, 28, 570.	1.0	40
29	Quantifying burned area for North American forests: Implications for direct reduction of carbon stocks. Journal of Geophysical Research, 2011, 116, .	3.3	39
30	Historical Fire Records in the North American Boreal Forest. Ecological Studies, 2000, , 274-288.	0.4	35
31	Carbon Release from Fires in the North American Boreal Forest. Ecological Studies, 2000, , 377-388.	0.4	34
32	Detection of vegetation change using reconnaissance imagery. Global Change Biology, 2001, 7, 247-252.	4.2	30
33	Modeling Regional-Scale Wildland Fire Emissions with the Wildland Fire Emissions Information System*. Earth Interactions, 2014, 18, 1-26.	0.7	27
34	Fire disturbance effects on land surface albedo in Alaskan tundra. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 841-854.	1.3	25
35	Mapping Modeled Exposure of Wildland Fire Smoke for Human Health Studies in California. Atmosphere, 2019, 10, 308.	1.0	23
36	Nextâ€Generation Biomass Mapping for Regional Emissions and Carbon Inventories: Incorporating Uncertainty in Wildland Fuel Characterization. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3699-3716.	1.3	23

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37	Santa Ana winds and predictors of wildfire progression in southern California. International Journal of Wildland Fire, 2014, 23, 1119.	1.0	22
38	Monitoring Seasonal Variations in Boreal Ecosystems Using Multi-Temporal Spaceborne SAR Data. Canadian Journal of Remote Sensing, 1995, 21, 96-109.	1.1	19
39	Development of Methods for Detection and Monitoring of Fire Disturbance in the Alaskan Tundra Using a Two-Decade Long Record of Synthetic Aperture Radar Satellite Images. Remote Sensing, 2014, 6, 6347-6364.	1.8	19
40	Influence of Fire on Long-Term Patterns of Forest Succession in Alaskan Boreal Forests. Ecological Studies, 2000, , 214-235.	0.4	16
41	Development of the WRF-CO2 4D-Var assimilation system v1.0. Geoscientific Model Development, 2018, 11, 1725-1752.	1.3	14
42	National database for calculating fuel available to wildfires. Eos, 2012, 93, 57-58.	0.1	13
43	Direct Effects of Fire on the Boreal Forest Carbon Budget. Advances in Global Change Research, 2000, , 51-68.	1.6	12
44	Cloudâ€toâ€Ground Lightning and Nearâ€Surface Fire Weather Control Wildfire Occurrence in Arctic Tundra. Geophysical Research Letters, 2022, 49, .	1.5	12
45	Quantifying how sources of uncertainty in combustible biomass propagate to prediction of wildland fire emissions. International Journal of Wildland Fire, 2020, 29, 793.	1.0	11
46	Using Satellite Data to Monitor Fire-Related Processes in Boreal Forests. Ecological Studies, 2000, , 406-422.	0.4	7
47	Quantifying surface severity of the 2014 and 2015 fires in the Great Slave Lake area of Canada. International Journal of Wildland Fire, 2020, 29, 892.	1.0	7
48	Characteristics of Forest Ecozones in the North American Boreal Region. Ecological Studies, 2000, , 258-273.	0.4	6
49	Using wildland fire smoke modeling data in gerontological health research (California, 2007â€"2018). Science of the Total Environment, 2022, 838, 156403.	3.9	4
50	A Comparison of Multitemporal Airborne Laser Scanning Data and the Fuel Characteristics Classification System for Estimating Fuel Load and Consumption. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	3
51	Consequences of a future increase in fire: The human health perspective. One Earth, 2021, 4, 487-488.	3.6	2
52	Using Visible and Near-Infrared Satellite Imagery to Monitor Boreal Forests. Ecological Studies, 2000, , 312-330.	0.4	2
53	Remote Sensing for Mapping and Modeling of Land-Based Carbon Flux and Storage. , 0, , 95-143.		1
54	Monitoring Boreal Forests by Using Imaging Radars. Ecological Studies, 2000, , 331-346.	0.4	0