Nicholas S Skowronski

List of Publications by Year
in descending order

57 papers	1,484 citations	361413 20 h-index	330143 37 g-index
61 all docs	61 docs citations	61 times ranked	1538 citing authors

#	Article	IF	Citations
1	Invasive insects impact forest carbon dynamics. Global Change Biology, 2010, 16, 88-101.	9.5	156
2	Remotely sensed measurements of forest structure and fuel loads in the Pinelands of New Jersey. Remote Sensing of Environment, 2007, 108, 123-129.	11.0	109
3	Prescribed fire science: the case for a refined research agenda. Fire Ecology, 2020, 16, .	3.0	104
4	Three-dimensional canopy fuel loading predicted using upward and downward sensing LiDAR systems. Remote Sensing of Environment, 2011, 115, 703-714.	11.0	101
5	Effects of invasive insects and fire on forest energy exchange and evapotranspiration in the New Jersey pinelands. Agricultural and Forest Meteorology, 2012, 166-167, 50-61.	4.8	66
6	Airborne laser scanner-assisted estimation of aboveground biomass change in a temperate oakâ€“pine forest. Remote Sensing of Environment, 2014, 151, 166-174.	11.0	66
7	Investigation of firebrand generation from an experimental fire: Development of a reliable data collection methodology. Fire Safety Journal, 2017, 91, 864-871.	3.1	60
8	Experimental Procedures Characterising Firebrand Generation in Wildland Fires. Fire Technology, 2016, 52, 731-751.	3.0	59
9	Effects of seasonal variation of photosynthetic capacity on the carbon fluxes of a temperate deciduous forest. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1703-1714.	3.0	53
10	Investigation of firebrand production during prescribed fires conducted in a pine forest. Proceedings of the Combustion Institute, 2017, 36, 3263-3270.	3.9	50
11	Impact of insect defoliation on forest carbon balance as assessed with a canopy assimilation model. Global Change Biology, 2010, 16, 546-560.	9.5	46
12	High spatial resolution burn severity mapping of the New Jersey Pine Barrens with WorldView-3 near-infrared and shortwave infrared imagery. International Journal of Remote Sensing, 2017, 38, 598-616.	2.9	44
13	Effects of a prescribed fire on water use and photosynthetic capacity of pitch pines. Trees - Structure and Function, 2013, 27, 1115-1127.	1.9	42
14	Utilization of remote sensing techniques for the quantification of fire behavior in two pine stands. Fire Safety Journal, 2017, 91, 845-854.	3.1	35
15	Decomposing the Interactions between Fire Severity and Canopy Fuel Structure Using Multi-Temporal, Active, and Passive Remote Sensing Approaches. Fire, 2020, 3, 7.	2.8	34
16	Simulation and sensitivity analysis of carbon storage and fluxes in the New Jersey Pinelands. Environmental Modelling and Software, 2011, 26, 1112-1122.	4.5	26
17	Observations of fireâ€induced turbulence regimes during lowâ€intensity wildland fires in forested environments: implications for smoke dispersion. Atmospheric Science Letters, 2015, 16, 453-460.	1.9	26
18	Local measurements of wildland fire dynamics in a field-scale experiment. Combustion and Flame, 2018, 194, 452-463.	5.2	26

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19	Decadal-Scale Reduction in Forest Net Ecosystem Production Following Insect Defoliation Contrasts with Short-Term Impacts of Prescribed Fires. Forests, 2018, 9, 145.	2.1	24
20	Climate change and fire management in the mid-Atlantic region. Forest Ecology and Management, 2014, 327, 306-315.	3.2	21
21	Fire Management and Carbon Sequestration in Pine Barren Forests. Journal of Sustainable Forestry, 2015, 34, 125-146.	1.4	21
22	Atmospheric Turbulence Observations in the Vicinity of Surface Fires in Forested Environments. Journal of Applied Meteorology and Climatology, 2017, 56, 3133-3150.	1.5	21
23	Multiscale Simulation of a Prescribed Fire Event in the New Jersey Pine Barrens Using ARPS-CANOPY. Journal of Applied Meteorology and Climatology, 2014, 53, 793-812.	1.5	19
24	Decision support tools to improve the effectiveness of hazardous fuel reduction treatments in the New Jersey Pine Barrens. International Journal of Wildland Fire, 2009, 18, 268.	2.4	18
25	Structure-level fuel load assessment in the wildlandâ€"urban interface: a fusion of airborne laser scanning and spectral remote-sensing methodologies. International Journal of Wildland Fire, 2016, 25, 547.	2.4	18
26	Missing Rings, Synchronous Growth, and Ecological Disturbance in a 36-Year Pitch Pine (Pinus rigida) Provenance Study. PLoS ONE, 2016, 11, e0154730.	2.5	17
27	Fire Behavior, Fuel Consumption, and Turbulence and Energy Exchange during Prescribed Fires in Pitch Pine Forests. Atmosphere, 2020, 11, 242.	2.3	16
28	Flame spread behavior characterization of discrete fuel array under a forced flow. Proceedings of the Combustion Institute, 2021, 38, 5109-5117.	3.9	16
29	Relationships among burn severity, forest canopy structure and bat activity from spring burns in oakâ€"hickory forests. International Journal of Wildland Fire, 2017, 26, 963.	2.4	13
30	An Improved Approach for Selecting and Validating Burn Severity Indices in Forested Landscapes. Canadian Journal of Remote Sensing, 2020, 46, 100-111.	2.4	13
31	A simplified and affordable approach to forest monitoring using single terrestrial laser scans and transect sampling. MethodsX, 2021, 8, 101484.	1.6	13
32	Assessing Forest Canopy Impacts on Smoke Concentrations Using a Coupled Numerical Model. Atmosphere, 2019, 10, 273.	2.3	9
33	Detailed physical modeling of wildland fire dynamics at field scale - An experimentally informed evaluation. Fire Safety Journal, 2021, 120, 103051.	3.1	9
34	Flame spread predictions over linear discrete fuel arrays using an empirical B-number model and stagnation point flow. Combustion and Flame, 2021, 234, 111644.	5.2	9
35	The influence of prescribed burning and wildfire on lidar-estimated forest structure of the New Jersey Pinelands National Reserve. International Journal of Wildland Fire, 2020, 29, 1100.	2.4	9
36	Coupled Assessment of Fire Behavior and Firebrand Dynamics. Frontiers in Mechanical Engineering, 2021, 7, .	1.8	9

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37	Can restoration of fireâ€dependent ecosystems reduce ticks and tickâ€borne disease prevalence in the eastern United States?. Ecological Applications, 2022, 32, e2637.	3.8	9
38	Clarifying the meaning of mantras in wildland fire behaviour modelling: reply to Cruz et al. (2017). International Journal of Wildland Fire, 2018, 27, 770.	2.4	8
39	Bark charcoal reflectance may have the potential to estimate the heat delivered to tree boles by wildland fires. International Journal of Wildland Fire, 2021, 30, 391.	2.4	7
40	Approaches to Modeling Bed Drag in Pine Forest Litter for Wildland Fire Applications. Transport in Porous Media, 2021, 138, 637-660.	2.6	7
41	Estimation of Plot-Level Burn Severity Using Terrestrial Laser Scanning. Remote Sensing, 2021, 13, 4168.	4.0	7
42	Development of a Field Deployable Firebrand Flux and Condition Measurement System. Fire Technology, 2021, 57, 1401-1424.	3.0	6
43	LiDAR Voxel-Size Optimization for Canopy Gap Estimation. Remote Sensing, 2022, 14, 1054.	4.0	6
44	A preliminary study of wildland fire pattern indicator reliability following an experimental fire. Journal of Fire Sciences, 2017, 35, 359-378.	2.0	5
45	Diurnal Pine Bark Structure Dynamics Affect Properties Relevant to Firebrand Generation. Fire, 2020, 3, 55.	2.8	5
46	Role of Horizontal Eddy Diffusivity within the Canopy on Fire Spread. Atmosphere, 2020, 11, 672.	2.3	5
47	Reconstruction of the Spring Hill Wildfire and Exploration of Alternate Management Scenarios Using QUIC-Fire. Fire, 2021, 4, 72.	2.8	5
48	Turbulent Momentum Flux Behavior above a Fire Front in an Open-Canopied Forest. Atmosphere, 2021, 12, 956.	2.3	4
49	The Fire Research Program at the Silas Little Experimental Forest, New Lisbon, New Jersey. , 2014, , 515-534.		4
50	Evidence of local adaptation in litter flammability of a widespread fireâ€adaptive pine. Journal of Ecology, 2022, 110, 1138-1148.	4.0	3
51	Convective heat transfer in pine forest litter beds. International Journal of Heat and Mass Transfer, 2022, 195, 123057.	4.8	3
52	Fuels Characterization Techniques. , 2018, , 1-10.		2
53	An experimental approach to the evaluation of prescribed fire behavior. , 0, , 41-53.		2
54	Design and implementation of a portable, large-scale wind tunnel for wildfire research. Fire Safety Journal, 2022, 131, 103607.	3.1	2

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55	Exploring golden eagle habitat preference using lidar-based canopy bulk density. Remote Sensing Letters, 2022, 13, 556-567.	1.4	1
56	Fuel Characterization Techniques. , 2020, , 504-513.		0
57	Representing low-intensity fireÂsensible heat output in a mesoscale atmospheric model with a canopy submodel: a case study with ARPS-CANOPY (version 5.2.12). Geoscientific Model Development, 2022, 15, 1713-1734.	3.6	0