Chris M Gough

List of Publications by Year in descending order

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Снрік М Соцісн

#	Article	IF	CITATIONS
1	Inferring the effects of partial defoliation on the carbon cycle from forest structure: challenges and opportunities. Environmental Research Letters, 2022, 17, 011002.	5.2	3
2	Climate Drives Modeled Forest Carbon Cycling Resistance and Resilience in the Upper Great Lakes Region, USA. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	4
3	Biogeosciences Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science. Earth and Space Science, 2022, 9, .	2.6	14
4	Coupling of Tree Growth and Photosynthetic Carbon Uptake Across Six North American Forests. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	3
5	Power law scaling relationships link canopy structural complexity and height across forest types. Functional Ecology, 2022, 36, 713-726.	3.6	10
6	Disturbance has variable effects on the structural complexity of a temperate forest landscape. Ecological Indicators, 2022, 140, 109004.	6.3	7
7	Fire after clear-cut harvesting minimally affects the recovery of ecosystem carbon pools and fluxes in a Great Lakes forest. Forest Ecology and Management, 2022, 519, 120301.	3.2	2
8	Forest Structural Complexity and Biomass Predict First-Year Carbon Cycling Responses to Disturbance. Ecosystems, 2021, 24, 699-712.	3.4	17
9	Temperature thresholds of ecosystem respiration at a global scale. Nature Ecology and Evolution, 2021, 5, 487-494.	7.8	46
10	The <i>fortedata</i> R package: open-science datasets from a manipulative experiment testing forest resilience. Earth System Science Data, 2021, 13, 943-952.	9.9	9
11	A reporting format for leaf-level gas exchange data and metadata. Ecological Informatics, 2021, 61, 101232.	5.2	22
12	Warming homogenizes apparent temperature sensitivity of ecosystem respiration. Science Advances, 2021, 7, .	10.3	28
13	Root lateral interactions drive water uptake patterns under water limitation. Advances in Water Resources, 2021, 151, 103896.	3.8	20
14	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. Agricultural and Forest Meteorology, 2021, 301-302, 108350.	4.8	125
15	Disturbanceâ€accelerated succession increases the production of a temperate forest. Ecological Applications, 2021, 31, e02417.	3.8	15
16	The three major axes of terrestrial ecosystem function. Nature, 2021, 598, 468-472.	27.8	99
17	Forest Carbon Sequestration Increases Following a Largeâ€6cale Manipulation of Moderate Severity Disturbance. Bulletin of the Ecological Society of America, 2021, 102, e01923.	0.2	0
18	A multidimensional stability framework enhances interpretation and comparison of carbon cycling response to disturbance. Ecosphere, 2021, 12, e03800.	2.2	13

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19	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). Methods in Ecology and Evolution, 2020, 11, 22-37.	5.2	68
20	COSORE: A community database for continuous soil respiration and other soilâ€atmosphere greenhouse gas flux data. Global Change Biology, 2020, 26, 7268-7283.	9.5	50
21	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	5.3	646
22	Structure and parameter uncertainty in centennial projections of forest community structure and carbon cycling. Global Change Biology, 2020, 26, 6080-6096.	9.5	25
23	Community and structural constraints on the complexity of eastern North American forests. Global Ecology and Biogeography, 2020, 29, 2107-2118.	5.8	24
24	Aboveground Wood Production Is Sustained in the First Growing Season after Phloem-Disrupting Disturbance. Forests, 2020, 11, 1306.	2.1	7
25	Compatibility of Aerial and Terrestrial LiDAR for Quantifying Forest Structural Diversity. Remote Sensing, 2020, 12, 1407.	4.0	41
26	Forest structure, diversity, and primary production in relation to disturbance severity. Ecology and Evolution, 2020, 10, 4419-4430.	1.9	12
27	Application of multidimensional structural characterization to detect and describe moderate forest disturbance. Ecosphere, 2020, 11, e03156.	2.2	32
28	Stand age, disturbance history and the temporal stability of forest production. Forest Ecology and Management, 2020, 460, 117865.	3.2	24
29	Collar Properties and Measurement Time Confer Minimal Bias Overall on Annual Soil Respiration Estimates in a Global Database. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG006066.	3.0	4
30	High rates of primary production in structurally complex forests. Ecology, 2019, 100, e02864.	3.2	96
31	Contrasting Development of Canopy Structure and Primary Production in Planted and Naturally Regenerated Red Pine Forests. Forests, 2019, 10, 566.	2.1	7
32	Defining a spectrum of integrative traitâ€based vegetation canopy structural types. Ecology Letters, 2019, 22, 2049-2059.	6.4	52
33	Wood Decay Characteristics and Interspecific Interactions Control Bacterial Community Succession in Populus grandidentata (Bigtooth Aspen). Frontiers in Microbiology, 2019, 10, 979.	3.5	8
34	Enhancing global change experiments through integration of remoteâ€sensing techniques. Frontiers in Ecology and the Environment, 2019, 17, 215-224.	4.0	55
35	Multidecadal trajectories of soil chemistry and nutrient availability following cutting vs. burning disturbances in Upper Great Lakes forests. Canadian Journal of Forest Research, 2019, 49, 731-742.	1.7	6
36	Spatioâ€Temporal Convergence of Maximum Daily Lightâ€Use Efficiency Based on Radiation Absorption by Canopy Chlorophyll. Geophysical Research Letters, 2018, 45, 3508-3519.	4.0	48

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37	Forest Canopy Structural Complexity and Light Absorption Relationships at the Subcontinental Scale. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1387-1405.	3.0	79
38	Shifting conceptions of complexity in forest management and silviculture. Forest Ecology and Management, 2018, 421, 59-71.	3.2	73
39	Mean annual precipitation predicts primary production resistance and resilience to extreme drought. Science of the Total Environment, 2018, 636, 360-366.	8.0	109
40	On the relationship between sub-daily instantaneous and daily total gross primary production: Implications for interpreting satellite-based SIF retrievals. Remote Sensing of Environment, 2018, 205, 276-289.	11.0	91
41	Contrasting responses of autumn-leaf senescence to daytime and night-time warming. Nature Climate Change, 2018, 8, 1092-1096.	18.8	145
42	Quantifying the effect of forest age in annual net forest carbon balance. Environmental Research Letters, 2018, 13, 124018.	5.2	67
43	Spatiotemporal Consistency of Four Gross Primary Production Products and Solarâ€Induced Chlorophyll Fluorescence in Response to Climate Extremes Across CONUS in 2012. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 3140-3161.	3.0	30
44	Spatial Variation in Canopy Structure across Forest Landscapes. Forests, 2018, 9, 474.	2.1	24
45	Forest aging, disturbance and the carbon cycle. New Phytologist, 2018, 219, 1188-1193.	7.3	75
46	Globally rising soil heterotrophic respiration over recent decades. Nature, 2018, 560, 80-83.	27.8	360
47	Effects of canopy structure and species diversity on primary production in upper Great Lakes forests. Oecologia, 2018, 188, 405-415.	2.0	29
48	Moderate Disturbance Has Similar Effects on Production Regardless of Site Quality and Composition. Forests, 2018, 9, 70.	2.1	5
49	Quantifying vegetation and canopy structural complexity from terrestrial Li <scp>DAR</scp> data using the <scp>forestr r</scp> package. Methods in Ecology and Evolution, 2018, 9, 2057-2066.	5.2	76
50	Temporal Dynamics of Aerodynamic Canopy Height Derived From Eddy Covariance Momentum Flux Data Across North American Flux Networks. Geophysical Research Letters, 2018, 45, 9275-9287.	4.0	31
51	Land surface phenology derived from normalized difference vegetation index (NDVI) at global FLUXNET sites. Agricultural and Forest Meteorology, 2017, 233, 171-182.	4.8	154
52	Physiographic factors underlie rates of biomass production during succession in Great Lakes forest landscapes. Forest Ecology and Management, 2017, 397, 157-173.	3.2	20
53	Quantifying deforestation and forest degradation with thermal response. Science of the Total Environment, 2017, 607-608, 1286-1292.	8.0	16
54	Linking plant functional trait plasticity and the large increase in forest water use efficiency. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2393-2408.	3.0	54

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55	Research Article: Soil respiration in upper Great Lakes old-growth forest ecosystems. Bios, 2017, 88, 105-115.	0.0	3
56	Coupling Fine-Scale Root and Canopy Structure Using Ground-Based Remote Sensing. Remote Sensing, 2017, 9, 182.	4.0	12
57	Evaluating the effect of alternative carbon allocation schemes in a land surface modelÂ(CLM4.5) on carbon fluxes, pools, and turnover in temperate forests. Geoscientific Model Development, 2017, 10, 3499-3517.	3.6	32
58	Evaluating forest subcanopy response to moderate severity disturbance and contribution to ecosystem-level productivity and resilience. Forest Ecology and Management, 2016, 376, 135-147.	3.2	30
59	Disturbance, complexity, and succession of net ecosystem production in North America's temperate deciduous forests. Ecosphere, 2016, 7, e01375.	2.2	60
60	Coarse woody debris and the carbon balance of a moderately disturbed forest. Forest Ecology and Management, 2016, 361, 38-45.	3.2	21
61	Modeling forest carbon cycle response to tree mortality: Effects of plant functional type and disturbance intensity. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2178-2193.	3.0	9
62	Moderate forest disturbance as a stringent test for gap and big-leaf models. Biogeosciences, 2015, 12, 513-526.	3.3	16
63	Low historical nitrogen deposition effect on carbon sequestration in the boreal zone. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2542-2561.	3.0	29
64	Net primary production of a temperate deciduous forest exhibits a threshold response to increasing disturbance severity. Ecology, 2015, 96, 2478-2487.	3.2	55
65	Joint control of terrestrial gross primary productivity by plant phenology and physiology. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2788-2793.	7.1	265
66	The match and mismatch between photosynthesis and land surface phenology of deciduous forests. Agricultural and Forest Meteorology, 2015, 214-215, 25-38.	4.8	80
67	Can EVI-derived land-surface phenology be used as a surrogate for phenology of canopy photosynthesis?. International Journal of Remote Sensing, 2014, 35, 1162-1174.	2.9	52
68	Modeling growing season phenology in North American forests using seasonal mean vegetation indices from MODIS. Remote Sensing of Environment, 2014, 147, 79-88.	11.0	118
69	Characterizing the diurnal patterns of errors in the prediction of evapotranspiration by several landâ€surface models: An NACP analysis. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1458-1473.	3.0	69
70	Speciesâ€specific transpiration responses to intermediate disturbance in a northern hardwood forest. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 2292-2311.	3.0	76
71	Evidence of autumn phenology control on annual net ecosystem productivity in two temperate deciduous forests. Ecological Engineering, 2013, 60, 88-95.	3.6	48
72	Using FLUXNET data to improve models of springtime vegetation activity onset in forest ecosystems. Agricultural and Forest Meteorology, 2013, 171-172, 46-56.	4.8	91

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73	Maintaining high rates of carbon storage in old forests: A mechanism linking canopy structure to forest function. Forest Ecology and Management, 2013, 298, 111-119.	3.2	130
74	Interannual variability of net ecosystem productivity in forests is explained by carbon flux phenology in autumn. Global Ecology and Biogeography, 2013, 22, 994-1006.	5.8	144
75	The contribution of nitrogen deposition to the photosynthetic capacity of forests. Global Biogeochemical Cycles, 2013, 27, 187-199.	4.9	127
76	Multivariate Conditional Granger Causality Analysis for Lagged Response of Soil Respiration in a Temperate Forest. Entropy, 2013, 15, 4266-4284.	2.2	18
77	Sustained carbon uptake and storage following moderate disturbance in a Great Lakes forest. Ecological Applications, 2013, 23, 1202-1215.	3.8	137
78	Canopy Structural Changes Following Widespread Mortality of Canopy Dominant Trees. Forests, 2013, 4, 537-552.	2.1	43
79	Evaluating the agreement between measurements and models of net ecosystem exchange at different times and timescales using wavelet coherence: an example using data from the North American Carbon Program Site-Level Interim Synthesis. Biogeosciences, 2013, 10, 6893-6909.	3.3	30
80	Remote sensing of canopy light use efficiency in temperate and boreal forests of North America using MODIS imagery. Remote Sensing of Environment, 2012, 118, 60-72.	11.0	49
81	Evaluating spatial and temporal patterns of MODIS GPP over the conterminous U.S. against flux measurements and a process model. Remote Sensing of Environment, 2012, 124, 717-729.	11.0	110
82	Interannual and spatial impacts of phenological transitions, growing season length, and spring and autumn temperatures on carbon sequestration: A North America flux data synthesis. Global and Planetary Change, 2012, 92-93, 179-190.	3.5	64
83	Terrestrial biosphere model performance for interâ€annual variability of landâ€atmosphere <scp><scp>CO₂</scp></scp> exchange. Global Change Biology, 2012, 18, 1971-1987.	9.5	232
84	Evaluation of leafâ€ŧo anopy upscaling methodologies against carbon flux data in North America. Journal of Geophysical Research, 2012, 117, .	3.3	92
85	A modelâ€data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. Journal of Geophysical Research, 2012, 117, .	3.3	274
86	Terrestrial biosphere models need better representation of vegetation phenology: results from the <scp>N</scp> orth <scp>A</scp> merican <scp>C</scp> arbon <scp>P</scp> rogram <scp>S</scp> ite <scp>S</scp> ynthesis. Global Change Biology, 2012, 18, 566-584.	9.5	583
87	Lawn soil carbon storage in abandoned residential properties: An examination of ecosystem structure and function following partial human-natural decoupling. Journal of Environmental Management, 2012, 98, 155-162.	7.8	17
88	Characterizing the performance of ecosystem models across time scales: A spectral analysis of the North American Carbon Program site-level synthesis. Journal of Geophysical Research, 2011, 116, .	3.3	72
89	Disturbance and the resilience of coupled carbon and nitrogen cycling in a north temperate forest. Journal of Geophysical Research, 2011, 116, .	3.3	108
90	The role of canopy structural complexity in wood net primary production of a maturing northern deciduous forest. Ecology, 2011, 92, 1818-1827.	3.2	200

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91	Thermal adaptation of net ecosystem exchange. Biogeosciences, 2011, 8, 1453-1463.	3.3	30
92	Phenological and Temperature Controls on the Temporal Non-Structural Carbohydrate Dynamics of Populus grandidentata and Quercus rubra. Forests, 2010, 1, 65-81.	2.1	29
93	Wood net primary production resilience in an unmanaged forest transitioning from early to middle succession. Forest Ecology and Management, 2010, 260, 36-41.	3.2	61
94	Whole-ecosystem labile carbon production in a north temperate deciduous forest. Agricultural and Forest Meteorology, 2009, 149, 1531-1540.	4.8	80
95	Contribution of atmospheric nitrogen deposition to net primary productivity in a northern hardwood forest. Canadian Journal of Forest Research, 2009, 39, 1108-1118.	1.7	25
96	Influence of vegetation and seasonal forcing on carbon dioxide fluxes across the Upper Midwest, USA: Implications for regional scaling. Agricultural and Forest Meteorology, 2008, 148, 288-308.	4.8	106
97	Multi-year convergence of biometric and meteorological estimates of forest carbon storage. Agricultural and Forest Meteorology, 2008, 148, 158-170.	4.8	206
98	Controls on Annual Forest Carbon Storage: Lessons from the Past and Predictions for the Future. BioScience, 2008, 58, 609-622.	4.9	140
99	Coarse woody debris and the carbon balance of a north temperate forest. Forest Ecology and Management, 2007, 244, 60-67.	3.2	123
100	The legacy of harvest and fire on ecosystem carbon storage in a north temperate forest. Global Change Biology, 2007, 13, 1935-1949.	9.5	158
101	Respiratory carbon losses and the carbonâ€use efficiency of a northern hardwood forest, 1999–2003. New Phytologist, 2005, 167, 437-456.	7.3	122
102	Soil CO2 efflux in loblolly pine (Pinus taeda L.) plantations on the Virginia Piedmont and South Carolina Coastal Plain over a rotation-length chronosequence. Biogeochemistry, 2005, 73, 127-147.	3.5	33
103	Belowground carbon dynamics in loblolly pine (Pinus taeda) immediately following diammonium phosphate fertilization. Tree Physiology, 2004, 24, 845-851.	3.1	30
104	Short-term effects of fertilization on loblolly pine (Pinus taeda L.) physiology. Plant, Cell and Environment, 2004, 27, 876-886.	5.7	72
105	The influence of environmental, soil carbon, root, and stand characteristics on soil CO2 efflux in loblolly pine (Pinus taeda L.) plantations located on the South Carolina Coastal Plain. Forest Ecology and Management, 2004, 191, 353-363.	3.2	58
106	Structure, Properties, and Tissue Localization of Apoplastic α-Glucosidase in Crucifers1. Plant Physiology, 1999, 119, 385-398.	4.8	37
107	An experimental approach for crown to whole-canopy defoliation in forests. Canadian Journal of Forest Research, 0, , .	1.7	0
108	Fire after Clear-Cut Harvesting Minimally Affects the Recovery of Ecosystem Carbon Pools and Fluxes in a Great Lakes Forest. SSRN Electronic Journal, 0, , .	0.4	0

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109	Structural complexity and primary production resistance are coupled in a temperate forest. Frontiers in Forests and Global Change, 0, 5, .	2.3	5