

# Bobby Braswell

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

11,330  
citations

61977

43  
h-index

161844

54  
g-index

61  
all docs

61  
docs citations

61  
times ranked

11413  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent patterns and mechanisms of carbon exchange by terrestrial ecosystems. <i>Nature</i> , 2001, 414, 169-172.	27.8	1,162
2	Climatic, edaphic, and biotic controls over storage and turnover of carbon in soils. <i>Global Biogeochemical Cycles</i> , 1994, 8, 279-293.	4.9	871
3	Comprehensive comparison of gap-filling techniques for eddy covariance net carbon fluxes. <i>Agricultural and Forest Meteorology</i> , 2007, 147, 209-232.	4.8	744
4	Modeling gross primary production of temperate deciduous broadleaf forest using satellite images and climate data. <i>Remote Sensing of Environment</i> , 2004, 91, 256-270.	11.0	605
5	Use of digital webcam images to track spring green-up in a deciduous broadleaf forest. <i>Oecologia</i> , 2007, 152, 323-334.	2.0	489
6	Digital repeat photography for phenological research in forest ecosystems. <i>Agricultural and Forest Meteorology</i> , 2012, 152, 159-177.	4.8	446
7	The Response of Global Terrestrial Ecosystems to Interannual Temperature Variability. <i>Science</i> , 1997, 278, 870-873.	12.6	435
8	Near-surface remote sensing of spatial and temporal variation in canopy phenology. <i>Ecological Applications</i> , 2009, 19, 1417-1428.	3.8	400
9	NITROGEN DEPOSITION ONTO THE UNITED STATES AND WESTERN EUROPE: SYNTHESIS OF OBSERVATIONS AND MODELS. , 2005, 15, 38-57.		357
10	Spatial and Temporal Patterns in Terrestrial Carbon Storage Due to Deposition of Fossil Fuel Nitrogen. , 1996, 6, 806-814.		353
11	Spatial analysis of growing season length control over net ecosystem exchange. <i>Global Change Biology</i> , 2005, 11, 1777-1787.	9.5	313
12	Estimating diurnal to annual ecosystem parameters by synthesis of a carbon flux model with eddy covariance net ecosystem exchange observations. <i>Global Change Biology</i> , 2005, 11, 335-355.	9.5	298
13	Contemporary and pre-industrial global reactive nitrogen budgets. <i>Biogeochemistry</i> , 1999, 46, 7-43.	3.5	288
14	The MODIS (Collection V005) BRDF/albedo product: Assessment of spatial representativeness over forested landscapes. <i>Remote Sensing of Environment</i> , 2009, 113, 2476-2498.	11.0	272
15	Variations in the predicted spatial distribution of atmospheric nitrogen deposition and their impact on carbon uptake by terrestrial ecosystems. <i>Journal of Geophysical Research</i> , 1997, 102, 15849-15866.	3.3	264
16	Linking near-surface and satellite remote sensing measurements of deciduous broadleaf forest phenology. <i>Remote Sensing of Environment</i> , 2012, 117, 307-321.	11.0	230
17	Refining light-use efficiency calculations for a deciduous forest canopy using simultaneous tower-based carbon flux and radiometric measurements. <i>Agricultural and Forest Meteorology</i> , 2007, 143, 64-79.	4.8	226
18	Environmental variation is directly responsible for short-term but not long-term variation in forest-atmosphere carbon exchange. <i>Global Change Biology</i> , 2007, 13, 788-803.	9.5	219

#	ARTICLE	IF	CITATIONS
19	CONTINENTAL SCALE VARIABILITY IN ECOSYSTEM PROCESSES: MODELS, DATA, AND THE ROLE OF DISTURBANCE. <i>Ecological Monographs</i> , 1997, 67, 251-271.	5.4	202
20	Estimating light absorption by chlorophyll, leaf and canopy in a deciduous broadleaf forest using MODIS data and a radiative transfer model. <i>Remote Sensing of Environment</i> , 2005, 99, 357-371.	11.0	189
21	Integrating waveform lidar with hyperspectral imagery for inventory of a northern temperate forest. <i>Remote Sensing of Environment</i> , 2008, 112, 1856-1870.	11.0	175
22	Climate and nitrogen controls on the geography and timescales of terrestrial biogeochemical cycling. <i>Global Biogeochemical Cycles</i> , 1996, 10, 677-692.	4.9	168
23	The value of multiangle measurements for retrieving structurally and radiatively consistent properties of clouds, aerosols, and surfaces. <i>Remote Sensing of Environment</i> , 2005, 97, 495-518.	11.0	159
24	Sensitivity of vegetation indices to atmospheric aerosols: continental-scale observations in Northern Asia. <i>Remote Sensing of Environment</i> , 2003, 84, 385-392.	11.0	153
25	Contemporary and pre-industrial global reactive nitrogen budgets. <i>Biogeochemistry</i> , 1999, 46, 7-43.	3.5	151
26	Equilibration of the terrestrial water, nitrogen, and carbon cycles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 8280-8283.	7.1	142
27	Ecological Research Needs from Multiangle Remote Sensing Data. <i>Remote Sensing of Environment</i> , 1998, 63, 155-165.	11.0	142
28	Prolonged suppression of ecosystem carbon dioxide uptake after an anomalously warm year. <i>Nature</i> , 2008, 455, 383-386.	27.8	142
29	Satellite observation of El Niño effects on Amazon Forest phenology and productivity. <i>Geophysical Research Letters</i> , 2000, 27, 981-984.	4.0	140
30	ECOLOGICAL RESEARCH IN THE LARGE-SCALE BIOSPHERE ATMOSPHERE EXPERIMENT IN AMAZONIA: EARLY RESULTS. , 2004, 14, 3-16.		130
31	Statistical properties of random CO <sub>2</sub> flux measurement uncertainty inferred from model residuals. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 38-50.	4.8	128
32	Predicting pre-Columbian anthropogenic soils in Amazonia. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132475.	2.6	125
33	Comparing simple respiration models for eddy flux and dynamic chamber data. <i>Agricultural and Forest Meteorology</i> , 2006, 141, 219-234.	4.8	120
34	Amazon Forest Structure from IKONOS Satellite Data and the Automated Characterization of Forest Canopy Properties. <i>Biotropica</i> , 2008, 40, 141-150.	1.6	97
35	Model-data synthesis of diurnal and seasonal CO <sub>2</sub> fluxes at Niwot Ridge, Colorado. <i>Global Change Biology</i> , 2006, 12, 240-259.	9.5	92
36	A multivariable approach for mapping sub-pixel land cover distributions using MISR and MODIS: Application in the Brazilian Amazon region. <i>Remote Sensing of Environment</i> , 2003, 87, 243-256.	11.0	87

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37	Statistical uncertainty of eddy flux-based estimates of gross ecosystem carbon exchange at Howland Forest, Maine. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	81
38	Trends in wintertime climate in the northeastern United States: 1965-2005. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	70
39	Characterization of seasonal variation of forest canopy in a temperate deciduous broadleaf forest, using daily MODIS data. <i>Remote Sensing of Environment</i> , 2006, 105, 189-203.	11.0	69
40	The lifetime of excess atmospheric carbon dioxide. <i>Global Biogeochemical Cycles</i> , 1994, 8, 23-38.	4.9	55
41	Attribution of net carbon change by disturbance type across forest lands of the conterminous United States. <i>Carbon Balance and Management</i> , 2016, 11, 24.	3.2	55
42	Storm intensity and old-growth forest disturbances in the Amazon region. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	54
43	Short- and long-term greenhouse gas and radiative forcing impacts of changing water management in Asian rice paddies. <i>Global Change Biology</i> , 2004, 10, 1180-1196.	9.5	51
44	Detecting and predicting spatial and interannual patterns of temperate forest springtime phenology in the eastern U.S.. <i>Geophysical Research Letters</i> , 2002, 29, 54-1-54-4.	4.0	48
45	Extracting ecological and biophysical information from AVHRR optical data: An integrated algorithm based on inverse modeling. <i>Journal of Geophysical Research</i> , 1996, 101, 23335-23348.	3.3	47
46	IKONOS imagery for the Large Scale Biosphere-Atmosphere Experiment in Amazonia (LBA). <i>Remote Sensing of Environment</i> , 2003, 88, 111-127.	11.0	44
47	A diagnostic study of temperature controls on global terrestrial carbon exchange. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001, 53, 150-170.	1.6	41
48	Comparing CO <sub>2</sub> retrieved from Atmospheric Infrared Sounder with model predictions: Implications for constraining surface fluxes and lower-to-upper troposphere transport. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	39
49	Ancient Amazonian populations left lasting impacts on forest structure. <i>Ecosphere</i> , 2017, 8, e02035.	2.2	36
50	Contemporary and pre-industrial global reactive nitrogen budgets. , 1999, , 7-43.		30
51	A diagnostic study of temperature controls on global terrestrial carbon exchange. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 53, 150.	1.6	26
52	Joint data assimilation of satellite reflectance and net ecosystem exchange data constrains ecosystem carbon fluxes at a high-elevation subalpine forest. <i>Agricultural and Forest Meteorology</i> , 2014, 195-196, 73-88.	4.8	19
53	Determination of subpixel fractions of nonforested area in the Amazon using multiresolution satellite sensor data. <i>Journal of Geophysical Research</i> , 2002, 107, LBA 16-1.	3.3	11
54	The Role of Mid-latitude Mountains in the Carbon Cycle: Global Perspective and a Western US Case Study. <i>Advances in Global Change Research</i> , 2005, , 449-456.	1.6	11

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55	Process controls and similarity in the us continental-scale hydrological cycle from eof analysis of regional climate model simulations. <i>Hydrological Processes</i> , 1995, 9, 437-444.	2.6	9
56	Evaluating multiple causes of persistent low microwave backscatter from Amazon forests after the 2005 drought. <i>PLoS ONE</i> , 2017, 12, e0183308.	2.5	8
57	Moderate-Resolution Remote Sensing and Geospatial Analyses of Microclimates, Mounds, and Maize in the Northern Great Lakes. <i>Advances in Archaeological Practice</i> , 2014, 2, 195-207.	1.2	5
58	Remembrance of Weather Past: Ecosystem Responses to Climate Variability. , 2005, , 350-368.		4
59	GOES-R algorithms: a common science and engineering design and development approach for delivering next generation environmental data products. <i>Proceedings of SPIE</i> , 2010, , .	0.8	3
60	Correction to "Trends in wintertime climate in the northeastern United States: 1965-2005". <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	0
61	Environmental variation is directly responsible for short- but not long-term variation in forest-atmosphere carbon exchange. <i>Global Change Biology</i> , 2007, .	9.5	0