

# David R Bowling

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

3,194  
citations

218677

26  
h-index

345221

36  
g-index

37  
all docs

37  
docs citations

37  
times ranked

4184  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon isotopes in terrestrial ecosystem pools and CO <sub>2</sub> fluxes. <i>New Phytologist</i> , 2008, 178, 24-40.	7.3	444
2	<sup>13</sup> C content of ecosystem respiration is linked to precipitation and vapor pressure deficit. <i>Oecologia</i> , 2002, 131, 113-124.	2.0	338
3	Hydraulic diversity of forests regulates ecosystem resilience during drought. <i>Nature</i> , 2018, 561, 538-541.	27.8	332
4	Tunable diode laser absorption spectroscopy for stable isotope studies of ecosystem-atmosphere CO <sub>2</sub> exchange. <i>Agricultural and Forest Meteorology</i> , 2003, 118, 1-19.	4.8	266
5	Mechanistic evidence for tracking the seasonality of photosynthesis with solar-induced fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11640-11645.	7.1	219
6	Partitioning net ecosystem carbon exchange with isotopic fluxes of CO <sub>2</sub> . <i>Global Change Biology</i> , 2001, 7, 127-145.	9.5	178
7	CO <sub>2</sub> exchange and evapotranspiration across dryland ecosystems of southwestern North America. <i>Global Change Biology</i> , 2017, 23, 4204-4221.	9.5	164
8	Long-term urban carbon dioxide observations reveal spatial and temporal dynamics related to urban characteristics and growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2912-2917.	7.1	120
9	Dynamics of isotopic exchange of carbon dioxide in a Tennessee deciduous forest. <i>Global Biogeochemical Cycles</i> , 1999, 13, 903-922.	4.9	81
10	Applications of cavity ring-down spectroscopy to high precision isotope ratio measurement of <sup>13</sup> C/ <sup>12</sup> C in carbon dioxide. <i>Isotopes in Environmental and Health Studies</i> , 2006, 42, 21-35.	1.0	77
11	Limitations to winter and spring photosynthesis of a Rocky Mountain subalpine forest. <i>Agricultural and Forest Meteorology</i> , 2018, 252, 241-255.	4.8	72
12	Simulating atmospheric tracer concentrations for spatially distributed receptors: updates to the Stochastic Time-Inverted Lagrangian Transport model's R interface (STILT-R version 2). <i>Geoscientific Model Development</i> , 2018, 11, 2813-2824.	3.6	72
13	Plant functional traits and climate influence drought intensification and land-atmosphere feedbacks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14071-14076.	7.1	70
14	Critical evaluation of micrometeorological methods for measuring ecosystem-atmosphere isotopic exchange of CO <sub>2</sub> . <i>Agricultural and Forest Meteorology</i> , 2003, 116, 159-179.	4.8	66
15	Diffusive fractionation complicates isotopic partitioning of autotrophic and heterotrophic sources of soil respiration. <i>Plant, Cell and Environment</i> , 2010, 33, 1804-1819.	5.7	65
16	Monitoring of greenhouse gases and pollutants across an urban area using a light-rail public transit platform. <i>Atmospheric Environment</i> , 2018, 187, 9-23.	4.1	62
17	An observational constraint on stomatal function in forests: evaluating coupled carbon and water vapor exchange with carbon isotopes in the Community Land Model (CLM4.5). <i>Biogeosciences</i> , 2016, 13, 5183-5204.	3.3	57
18	Evaluating the Community Land Model (CLM4.5) at a coniferous forest site in northwestern United States using flux and carbon-isotope measurements. <i>Biogeosciences</i> , 2017, 14, 4315-4340.	3.3	54

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19	Carbon and oxygen isotope ratios of tree ring cellulose along a precipitation transect in Oregon, United States. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	50
20	Scaling Isoprene Fluxes from Leaves to Canopies: Test Cases over a Boreal Aspen and a Mixed Species Temperate Forest. <i>Journal of Applied Meteorology and Climatology</i> , 1999, 38, 885-898.	1.7	49
21	Solar-Induced Fluorescence Detects Interannual Variation in Gross Primary Production of Coniferous Forests in the Western United States. <i>Geophysical Research Letters</i> , 2018, 45, 7184-7193.	4.0	49
22	Canopy structure and atmospheric flows in relation to the $\delta^{13}C$ of respired CO <sub>2</sub> in a subalpine coniferous forest. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 592-605.	4.8	41
23	CO <sub>2</sub> and Carbon Emissions from Cities: Linkages to Air Quality, Socioeconomic Activity, and Stakeholders in the Salt Lake City Urban Area. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 2325-2339.	3.3	41
24	Diurnal and Seasonal Dynamics of Solar-Induced Chlorophyll Fluorescence, Vegetation Indices, and Gross Primary Productivity in the Boreal Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	36
25	Partitioning net ecosystem carbon exchange and the carbon isotopic disequilibrium in a subalpine forest. <i>Global Change Biology</i> , 2008, 14, 1785-1800.	9.5	35
26	Seasonal variation in the canopy color of temperate evergreen conifer forests. <i>New Phytologist</i> , 2021, 229, 2586-2600.	7.3	30
27	Decomposing reflectance spectra to track gross primary production in a subalpine evergreen forest. <i>Biogeosciences</i> , 2020, 17, 4523-4544.	3.3	20
28	Gross primary production (GPP) and red solar induced fluorescence (SIF) respond differently to light and seasonal environmental conditions in a subalpine conifer forest. <i>Agricultural and Forest Meteorology</i> , 2022, 317, 108904.	4.8	18
29	An injection method for measuring the carbon isotope content of soil carbon dioxide and soil respiration with a tunable diode laser absorption spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 894-900.	1.5	17
30	An interannual assessment of the relationship between the stable carbon isotopic composition of ecosystem respiration and climate in a high-elevation subalpine forest. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	17
31	Hot moments in ecosystem fluxes: High GPP anomalies exert outsized influence on the carbon cycle and are differentially driven by moisture availability across biomes. <i>Environmental Research Letters</i> , 2020, 15, 054004.	5.2	16
32	The Utah urban carbon dioxide (UUCON) and Uintah Basin greenhouse gas networks: instrumentation, data, and measurement uncertainty. <i>Earth System Science Data</i> , 2019, 11, 1291-1308.	9.9	15
33	Carbon isotopic composition of forest soil respiration in the decade following bark beetle and stem girdling disturbances in the Rocky Mountains. <i>Plant, Cell and Environment</i> , 2016, 39, 1513-1523.	5.7	8
34	Resolving temperature limitation on spring productivity in an evergreen conifer forest using a model-data fusion framework. <i>Biogeosciences</i> , 2022, 19, 541-558.	3.3	6
35	A multi-city urban atmospheric greenhouse gas measurement data synthesis. <i>Scientific Data</i> , 2022, 9, .	5.3	5
36	The Wasatch Environmental Observatory: A mountain to urban research network in the semi-arid western US. <i>Hydrological Processes</i> , 2021, 35, e14352.	2.6	2

#	ARTICLE	IF	CITATIONS
37	Theoretical Examination of Keeling-plot Relationships for Carbon Dioxide in a Temperate Broadleaved Forest with a Biophysical Model, CANISOTOPE. , 2005, , 109-124.		2