

Jocelyn C Turnbull

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

3,551
citations

236925

25
h-index

138484

58
g-index

89
all docs

89
docs citations

89
times ranked

4049
citing authors

#	ARTICLE	IF	CITATIONS
1	Variable effects of nitrogen additions on the stability and turnover of soil carbon. <i>Nature</i> , 2002, 419, 915-917.	27.8	643
2	14C Activity and Global Carbon Cycle Changes over the Past 50,000 Years. <i>Science</i> , 2004, 303, 202-207.	12.6	465
3	Marine-derived 14C calibration and activity record for the past 50,000 years updated from the Cariaco Basin. <i>Quaternary Science Reviews</i> , 2006, 25, 3216-3227.	3.0	249
4	High-resolution atmospheric inversion of urban CO ₂ emissions during the dormant season of the Indianapolis Flux Experiment (INFLUX). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5213-5236.	3.3	219
5	Comparison of 14CO ₂ , CO, and SF ₆ as tracers for recently added fossil fuel CO ₂ in the atmosphere and implications for biological CO ₂ exchange. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	186
6	Assessment of fossil fuel carbon dioxide and other anthropogenic trace gas emissions from airborne measurements over Sacramento, California in spring 2009. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 705-721.	4.9	148
7	Toward quantification and source sector identification of fossil fuel CO ₂ emissions from an urban area: Results from the INFLUX experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 292-312.	3.3	140
8	Linking emissions of fossil fuel CO ₂ and other anthropogenic trace gases using atmospheric ¹⁴ CO ₂ . <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	121
9	ATMOSPHERIC RADIOCARBON FOR THE PERIOD 1950â€“2019. <i>Radiocarbon</i> , 2022, 64, 723-745.	1.8	117
10	Assessment of uncertainties of an aircraft-based mass balance approach for quantifying urban greenhouse gas emissions. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9029-9050.	4.9	109
11	On the use of ¹⁴ CO ₂ as a tracer for fossil fuel CO ₂ : Quantifying uncertainties using an atmospheric transport model. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	107
12	A new high precision 14CO ₂ time series for North American continental air. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	83
13	Atmospheric observations of carbon monoxide and fossil fuel CO ₂ emissions from East Asia. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	65
14	Geological evidence for past large earthquakes and tsunamis along the Hikurangi subduction margin, New Zealand. <i>Marine Geology</i> , 2019, 412, 139-172.	2.1	63
15	The Indianapolis Flux Experiment (INFLUX): A test-bed for developing urban greenhouse gas emission measurements. <i>Elementa</i> , 2017, 5, .	3.2	59
16	Sixty years of radiocarbon dioxide measurements at Wellington, New Zealand: 1954â€“2014. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14771-14784.	4.9	54
17	Policy-Relevant Assessment of Urban CO ₂ Emissions. <i>Environmental Science & Technology</i> , 2020, 54, 10237-10245.	10.0	52
18	Synthesis of Urban CO ₂ Emission Estimates from Multiple Methods from the Indianapolis Flux Project (INFLUX). <i>Environmental Science & Technology</i> , 2019, 53, 287-295.	10.0	50

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19	Assessing the optimized precision of the aircraft mass balance method for measurement of urban greenhouse gas emission rates through averaging. <i>Elementa</i> , 2017, 5, .	3.2	46
20	Allocation of Terrestrial Carbon Sources Using ^{14}C CO_2 : Methods, Measurement, and Modeling. <i>Radiocarbon</i> , 2013, 55, 1484-1495.	1.8	35
21	An integrated flask sample collection system for greenhouse gas measurements. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2321-2327.	3.1	33
22	Tower measurement network of in-situ CO_2 , CH_4 , and CO in support of the Indianapolis FLUX (INFLUX) Experiment. <i>Elementa</i> , 2017, 5, .	3.2	31
23	Independent evaluation of point source fossil fuel CO_2 emissions to better than 10%. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10287-10291.	7.1	30
24	Atmospheric measurement of point source fossil CO_2 emissions. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5001-5014.	4.9	29
25	XCAMS: The compact ^{14}C accelerator mass spectrometer extended for ^{10}Be and ^{26}Al at GNS Science, New Zealand. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 25-33.	1.4	28
26	Reconciling the differences between a bottom-up and inverse-estimated FFCO ₂ emissions estimate in a large US urban area. <i>Elementa</i> , 2017, 5, .	3.2	28
27	Constraints on emissions of carbon monoxide, methane, and a suite of hydrocarbons in the Colorado Front Range using observations of ^{14}C CO_2 . <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11101-11120.	4.9	27
28	High-Precision Atmospheric ^{14}C CO_2 Measurement at the Rafter Radiocarbon Laboratory. <i>Radiocarbon</i> , 2015, 57, 377-388.	1.8	25
29	Quantification of urban atmospheric boundary layer greenhouse gas dry mole fraction enhancements in the dormant season: Results from the Indianapolis Flux Experiment (INFLUX). <i>Elementa</i> , 2017, 5, .	3.2	24
30	Rafter radiocarbon sample preparation and data flow: Accommodating enhanced throughput and precision. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 194-198.	1.4	22
31	Temporal variability in the sources and fluxes of CO_2 in a residential area in an evergreen subtropical city. <i>Atmospheric Environment</i> , 2016, 143, 164-176.	4.1	17
32	Radiocarbon bomb-peak signal in tree-rings from the tropical Andes register low latitude atmospheric dynamics in the Southern Hemisphere. <i>Science of the Total Environment</i> , 2021, 774, 145126.	8.0	17
33	Initial Results of an Intercomparison of AMS-Based Atmospheric ^{14}C CO_2 Measurements. <i>Radiocarbon</i> , 2013, 55, 1475-1483.	1.8	16
34	Source Sector Attribution of CO_2 Emissions Using an Urban CO/CO_2 Bayesian Inversion System. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,611.	3.3	16
35	Iconic CO_2 Time Series at Risk. <i>Science</i> , 2012, 337, 1038-1040.	12.6	15
36	Compatibility of Atmospheric ^{14}C CO_2 Measurements: Comparing the Heidelberg Low-Level Counting Facility to International Accelerator Mass Spectrometry (AMS) Laboratories. <i>Radiocarbon</i> , 2017, 59, 875-883.	1.8	15

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37	Carbon monoxide isotopic measurements in Indianapolis constrain urban source isotopic signatures and support mobile fossil fuel emissions as the dominant wintertime CO source. <i>Elementa</i> , 2017, 5, .	3.2	13
38	Observations of atmospheric ¹⁴ CO ₂ at Anmyeondo GAW station, South Korea: implications for fossil fuel CO ₂ and emission ratios. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12033-12045.	4.9	13
39	A New Automated Extraction System for ¹⁴ C Measurement for Atmospheric Co ₂ . <i>Radiocarbon</i> , 2010, 52, 1261-1269.	1.8	11
40	Integrating chronological uncertainties for annually laminated lake sediments using layer counting, independent chronologies and Bayesian age modelling (Lake Ohau, South Island, New Zealand). <i>Quaternary Science Reviews</i> , 2018, 188, 104-120.	3.0	10
41	Global Network Measurements of Atmospheric Trace Gas Isotopes. , 2010, , 3-31.		9
42	Allocation of Terrestrial Carbon Sources Using ¹⁴ CO ₂ ; Methods, Measurement, and Modeling. <i>Radiocarbon</i> , 2013, 55, .	1.8	9
43	Investigations into the use of multi-species measurements for source apportionment of the Indianapolis fossil fuel ¹⁴ CO ₂ signal. <i>Elementa</i> , 2018, 6, .	3.2	9
44	Refining the Chronology of the Agate Basin Complex: Radiocarbon Dating the Frazier Site, Northeastern Colorado. <i>Plains Anthropologist</i> , 2011, 56, 243-258.	0.3	8
45	Detecting long-term changes in point-source fossil CO ₂ emissions with tree ring archives. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5481-5495.	4.9	8
46	Authenticating bioplastics using carbon and hydrogen stable isotopes – An alternative analytical approach. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9051.	1.5	8
47	Pretreatment of Terrestrial Macrofossils. <i>Radiocarbon</i> , 2020, 62, 349-360.	1.8	7
48	Initial Results of an Intercomparison of AMS-Based Atmospheric ¹⁴ CO ₂ Measurements. <i>Radiocarbon</i> , 2013, 55, .	1.8	7
49	An improved estimate for the ¹³ C and ¹⁸ O signatures of carbon monoxide produced from atmospheric oxidation of volatile organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8547-8562.	4.9	6
50	Source decomposition of eddy-covariance CO ₂ flux measurements for evaluating a high-resolution urban CO ₂ emissions inventory. <i>Environmental Research Letters</i> , 2022, 17, 074035.	5.2	6
51	Report on the 20th International Radiocarbon Conference Graphitization Workshop. <i>Radiocarbon</i> , 2010, 52, 1230-1235.	1.8	5
52	Strong regional atmospheric ¹⁴ C signature of respired CO ₂ observed from a tall tower over the midwestern United States. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2275-2295.	3.0	5
53	A New Background Method for Greenhouse Gases Flux Calculation Based in Back-Trajectories Over the Amazon. <i>Atmosphere</i> , 2020, 11, 734.	2.3	5
54	A multi-city urban atmospheric greenhouse gas measurement data synthesis. <i>Scientific Data</i> , 2022, 9, .	5.3	5

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55	The influence of near-field fluxes on seasonal carbon dioxide enhancements: results from the Indianapolis Flux Experiment (INFLUX). <i>Carbon Balance and Management</i> , 2021, 16, 4.	3.2	4
56	Dramatic Lockdown Fossil Fuel CO ₂ Decrease Detected by Citizen Science-Supported Atmospheric Radiocarbon Observations. <i>Environmental Science & Technology</i> , 2022, 56, 9882-9890.	10.0	4
57	Atmospheric Radiocarbon Workshop Report. <i>Radiocarbon</i> , 2013, 55, 1470-1474.	1.8	3
58	Testing the effectiveness of AMS radiocarbon pretreatment and preparation on archaeological textiles. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 172, 469-472.	1.4	2
59	The impact of the COVID-19 lockdown on greenhouse gases: a multi-city analysis of in situ atmospheric observations. <i>Environmental Research Communications</i> , 2022, 4, 041004.	2.3	2
60	Seashore Settlement Patterns in the KonĀ and NaĀ Periods: Case Studies from Southwestern New Caledonia. <i>Journal of Island and Coastal Archaeology</i> , 2019, 14, 130-142.	1.4	1
61	Atmospheric Radiocarbon Workshop Report. <i>Radiocarbon</i> , 2013, 55, .	1.8	1
62	Using carbon-14 and carbon-13 measurements for source attribution of atmospheric methane in the Athabasca oil sands region. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2121-2133.	4.9	1
63	Comment on "World Atmospheric CO ₂ , Its 14C Specific Activity, Non-fossil Component, Anthropogenic Fossil Component, and Emissions (1750-2018)", by Kenneth Skrabale, George Chabot, and Clayton French. <i>Health Physics</i> , 2022, 122, 717-719.	0.5	1
64	RADIOCARBON AND ATMOSPHERIC 14CO ₂ PIONEER ATHOL RAFTER. <i>Radiocarbon</i> , 0, , 1-9.	1.8	0
65	Identification and Quantification of Methane Emissions in an Urban Setting. , 2011, , .		0