Jocelyn C Turnbull

List of Publications by Year
in descending order

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	ATMOSPHERIC RADIOCARBON FOR THE PERIOD 1950â€“2019. Radiocarbon, 2022, 64, 723-745.	1.8	117
2	Using carbon-14 and carbon-13 measurements for source attribution of atmospheric methane in the Athabasca oil sands region. Atmospheric Chemistry and Physics, 2022, 22, 2121-2133.	4.9	1
3	The impact of the COVID-19 lockdown on greenhouse gases: a multi-city analysis of in situ atmospheric observations. Environmental Research Communications, 2022, 4, 041004.	2.3	2
4	Comment on â€œWorld Atmospheric CO2, Its 14C Specific Activity, Non-fossil Component, Anthropogenic Fossil Component, and Emissions (1750â€“2018),â€•by Kenneth Skrable, George Chabot, and Clayton French. Health Physics, 2022, 122, 717-719.	0.5	1
5	A multi-city urban atmospheric greenhouse gas measurement data synthesis. Scientific Data, 2022, 9, .	5.3	5
6	Dramatic Lockdown Fossil Fuel CO₂ Decrease Detected by Citizen Science-Supported Atmospheric Radiocarbon Observations. Environmental Science & Technology, 2022, 56, 9882-9890.	10.0	4
7	Source decomposition of eddy-covariance CO₂ flux measurements for evaluating a high-resolution urban CO₂ emissions inventory. Environmental Research Letters, 2022, 17, 074035.	5.2	6
8	Authenticating bioplastics using carbon and hydrogen stable isotopes â€“ An alternative analytical approach. Rapid Communications in Mass Spectrometry, 2021, 35, e9051.	1.5	8
9	Radiocarbon bomb-peak signal in tree-rings from the tropical Andes register low latitude atmospheric dynamics in the Southern Hemisphere. Science of the Total Environment, 2021, 774, 145126.	8.0	17
10	The influence of near-field fluxes on seasonal carbon dioxide enhancements: results from the Indianapolis Flux Experiment (INFLUX). Carbon Balance and Management, 2021, 16, 4.	3.2	4
11	Policy-Relevant Assessment of Urban CO₂ Emissions. Environmental Science & Technology, 2020, 54, 10237-10245.	10.0	52
12	A New Background Method for Greenhouse Gases Flux Calculation Based in Back-Trajectories Over the Amazon. Atmosphere, 2020, 11, 734.	2.3	5
13	Pretreatment of Terrestrial Macrofossils. Radiocarbon, 2020, 62, 349-360.	1.8	7
14	Observations of atmospheric ¹⁴CO₂ at Anmyeondo GAW station, South Korea: implications for fossil fuel CO₂ and emission ratios. Atmospheric Chemistry and Physics, 2020, 20, 12033-12045.	4.9	13
15	An improved estimate for the <i>Î´</i>¹³C and <i>Î´</i>¹⁸O signatures of carbon monoxide produced from atmospheric oxidation of volatile organic compounds. Atmospheric Chemistry and Physics, 2019, 19, 8547-8562.	4.9	6
16	Seashore Settlement Patterns in the KonÃ© and NaÃ¯a Periods: Case Studies from Southwestern New Caledonia. Journal of Island and Coastal Archaeology, 2019, 14, 130-142.	1.4	1
17	Geological evidence for past large earthquakes and tsunamis along the Hikurangi subduction margin, New Zealand. Marine Geology, 2019, 412, 139-172.	2.1	63
18	Synthesis of Urban CO₂ Emission Estimates from Multiple Methods from the Indianapolis Flux Project (INFLUX). Environmental Science & Technology, 2019, 53, 287-295.	10.0	50

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19	Integrating chronological uncertainties for annually laminated lake sediments using layer counting, independent chronologies and Bayesian age modelling (Lake Ohau, South Island, New Zealand). Quaternary Science Reviews, 2018, 188, 104-120.	3.0	10
20	Source Sector Attribution of CO₂ Emissions Using an Urban CO/CO₂ Bayesian Inversion System. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,611.	3.3	16
21	Investigations into the use of multi-species measurements for source apportionment of the Indianapolis fossil fuel CO2 signal. Elementa, 2018, 6, .	3.2	9
22	Compatibility of Atmospheric ¹⁴CO₂ Measurements: Comparing the Heidelberg Low-Level Counting Facility to International Accelerator Mass Spectrometry (AMS) Laboratories. Radiocarbon, 2017, 59, 875-883.	1.8	15
23	Sixty years of radiocarbon dioxide measurements at Wellington, New Zealand: 1954â€“2014. Atmospheric Chemistry and Physics, 2017, 17, 14771-14784.	4.9	54
24	Tower measurement network of in-situ CO2, CH4, and CO in support of the Indianapolis FLUX (INFLUX) Experiment. Elementa, 2017, 5, .	3.2	31
25	Quantification of urban atmospheric boundary layer greenhouse gas dry mole fraction enhancements in the dormant season: Results from the Indianapolis Flux Experiment (INFLUX). Elementa, 2017, 5, .	3.2	24
26	Assessing the optimized precision of the aircraft mass balance method for measurement of urban greenhouse gas emission rates through averaging. Elementa, 2017, 5, .	3.2	46
27	Carbon monoxide isotopic measurements in Indianapolis constrain urban source isotopic signatures and support mobile fossil fuel emissions as the dominant wintertime CO source. Elementa, 2017, 5, .	3.2	13
28	Reconciling the differences between a bottom-up and inverse-estimated FFCO2 emissions estimate in a large US urban area. Elementa, 2017, 5, .	3.2	28
29	The Indianapolis Flux Experiment (INFLUX): A test-bed for developing urban greenhouse gas emission measurements. Elementa, 2017, 5, .	3.2	59
30	Highâ€resolution atmospheric inversion of urban CO₂ emissions during the dormant season of the Indianapolis Flux Experiment (INFLUX). Journal of Geophysical Research D: Atmospheres, 2016, 121, 5213-5236.	3.3	219
31	Independent evaluation of point source fossil fuel CO ₂ emissions to better than 10%. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10287-10291.	7.1	30
32	Strong regional atmospheric 14 C signature of respired CO 2 observed from a tall tower over the midwestern United States. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2275-2295.	3.0	5
33	Temporal variability in the sources and fluxes of CO2 in a residential area in an evergreen subtropical city. Atmospheric Environment, 2016, 143, 164-176.	4.1	17
34	Detecting long-term changes in point-source fossil CO₂ emissions with tree ring archives. Atmospheric Chemistry and Physics, 2016, 16, 5481-5495.	4.9	8
35	Toward quantification and source sector identification of fossil fuel CO₂ emissions from an urban area: Results from the INFLUX experiment. Journal of Geophysical Research D: Atmospheres, 2015, 120, 292-312.	3.3	140
36	High-Precision Atmospheric ¹⁴CO₂ Measurement at the Rafter Radiocarbon Laboratory. Radiocarbon, 2015, 57, 377-388.	1.8	25

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37	XCAMS: The compact 14C accelerator mass spectrometer extended for 10Be and 26Al at GNS Science, New Zealand. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 25-33.	1.4	28
38	Assessment of uncertainties of an aircraft-based mass balance approach for quantifying urban greenhouse gas emissions. Atmospheric Chemistry and Physics, 2014, 14, 9029-9050.	4.9	109
39	Atmospheric measurement of point source fossil CO₂ emissions. Atmospheric Chemistry and Physics, 2014, 14, 5001-5014.	4.9	29
40	Rafter radiocarbon sample preparation and data flow: Accommodating enhanced throughput and precision. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 194-198.	1.4	22
41	Constraints on emissions of carbon monoxide, methane, and a suite of hydrocarbons in the Colorado Front Range using observations of ¹⁴CO₂. Atmospheric Chemistry and Physics, 2013, 13, 11101-11120.	4.9	27
42	Allocation of Terrestrial Carbon Sources Using ¹⁴CO₂: Methods, Measurement, and Modeling. Radiocarbon, 2013, 55, 1484-1495.	1.8	35
43	Initial Results of an Intercomparison of AMS-Based Atmospheric ¹⁴CO₂ Measurements. Radiocarbon, 2013, 55, 1475-1483.	1.8	16
44	Atmospheric Radiocarbon Workshop Report. Radiocarbon, 2013, 55, 1470-1474.	1.8	3
45	Allocation of Terrestrial Carbon Sources Using 14CO2; Methods, Measurement, and Modeling. Radiocarbon, 2013, 55, .	1.8	9
46	Atmospheric Radiocarbon Workshop Report. Radiocarbon, 2013, 55, .	1.8	1
47	Initial Results of an Intercomparison of AMS-Based Atmospheric 14CO2 Measurements. Radiocarbon, 2013, 55, .	1.8	7
48	An integrated flask sample collection system for greenhouse gas measurements. Atmospheric Measurement Techniques, 2012, 5, 2321-2327.	3.1	33
49	Iconic CO ₂ Time Series at Risk. Science, 2012, 337, 1038-1040.	12.6	15
50	Linking emissions of fossil fuel CO₂ and other anthropogenic trace gases using atmospheric ¹⁴CO₂. Journal of Geophysical Research, 2012, 117, .	3.3	121
51	Atmospheric observations of carbon monoxide and fossil fuel CO₂emissions from East Asia. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	65
52	Assessment of fossil fuel carbon dioxide and other anthropogenic trace gas emissions from airborne measurements over Sacramento, California in spring 2009. Atmospheric Chemistry and Physics, 2011, 11, 705-721.	4.9	148
53	Refining the Chronology of the Agate Basin Complex: Radiocarbon Dating the Frazier Site, Northeastern Colorado. Plains Anthropologist, 2011, 56, 243-258.	0.3	8
54	Identification and Quantification of Methane Emissions in an Urban Setting. , 2011, , .		0

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55	Report on the 20th International Radiocarbon Conference Graphitization Workshop. Radiocarbon, 2010, 52, 1230-1235.	1.8	5
56	A New Automated Extraction System for ¹⁴C Measurement for Atmospheric Co₂. Radiocarbon, 2010, 52, 1261-1269.	1.8	11
57	Global Network Measurements of Atmospheric Trace Gas Isotopes. , 2010, , 3-31.		9
58	On the use of ¹⁴CO₂ as a tracer for fossil fuel CO₂: Quantifying uncertainties using an atmospheric transport model. Journal of Geophysical Research, 2009, 114, .	3.3	107
59	A new high precision14CO2time series for North American continental air. Journal of Geophysical Research, 2007, 112, .	3.3	83
60	Comparison of14CO2, CO, and SF6as tracers for recently added fossil fuel CO2in the atmosphere and implications for biological CO2exchange. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	186
61	Marine-derived 14C calibration and activity record for the past 50,000 years updated from the Cariaco Basin. Quaternary Science Reviews, 2006, 25, 3216-3227.	3.0	249
62	14C Activity and Global Carbon Cycle Changes over the Past 50,000 Years. Science, 2004, 303, 202-207.	12.6	465
63	Variable effects of nitrogen additions on the stability and turnover of soil carbon. Nature, 2002, 419, 915-917.	27.8	643
64	Testing the effectiveness of AMS radiocarbon pretreatment and preparation on archaeological textiles. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 469-472.	1.4	2
65	RADIOCARBON AND ATMOSPHERIC 14CO2 PIONEER ATHOL RAFTER. Radiocarbon, 0, , 1-9.	1.8	0