Andrew R Jacobson

List of Publications by Year
in descending order

43 papers	5,930 citations	236925 25 h-index	265206 42 g-index
47 all docs	47 docs citations	47 times ranked	6224 citing authors

#	Article	IF	Citations
1	An atmospheric perspective on North American carbon dioxide exchange: CarbonTracker. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18925-18930.	7.1	895
2	Oceanic sources, sinks, and transport of atmospheric CO₂. Global Biogeochemical Cycles, 2009, 23, .	4.9	455
3	Constraining global air-sea gas exchange for CO2with recent bomb14C measurements. Global Biogeochemical Cycles, 2007, 21, n/a-n/a.	4.9	442
4	Perceptual organization and focused attention: The role of objects and proximity in visual processing. Perception & Psychophysics, 1991, 50, 267-284.	2.3	372
5	Global atmospheric carbon budget: results from an ensemble of atmospheric CO₂ inversions. Biogeosciences, 2013, 10, 6699-6720.	3.3	356
6	Inverse estimates of anthropogenic CO2uptake, transport, and storage by the ocean. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	331
7	Climatology of the planetary boundary layer over the continental United States and Europe. Journal of Geophysical Research, 2012, 117, .	3.3	297
8	A synthesis of carbon dioxide emissions from fossil-fuel combustion. Biogeosciences, 2012, 9, 1845-1871.	3.3	271
9	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. Global Change Biology, 2010, 16, 1317-1337.	9.5	223
10	The North American Carbon Program Multi-Scale Synthesis and Terrestrial Model Intercomparison Project â€“ Part 1: Overview and experimental design. Geoscientific Model Development, 2013, 6, 2121-2133.	3.6	212
11	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. Ecological Modelling, 2012, 232, 144-157.	2.5	207
12	The North American Carbon Program Multi-scale Synthesis and Terrestrial Model Intercomparison Project â€“ Part 2: Environmental driver data. Geoscientific Model Development, 2014, 7, 2875-2893.	3.6	207
13	Trends and regional distributions of land and ocean carbon sinks. Biogeosciences, 2010, 7, 2351-2367.	3.3	167
14	Data-based estimates of the ocean carbon sink variability â€“ first results of the Surface Ocean <i>p</i>CO₂ Mapping intercomparison (SOCOM). Biogeosciences, 2015, 12, 7251-7278.	3.3	163
15	Inverse estimates of the oceanic sources and sinks of natural CO2 and the implied oceanic carbon transport. Global Biogeochemical Cycles, 2007, 21, .	4.9	156
16	CLIMATE FORCING AND DENSITY DEPENDENCE IN A MOUNTAIN UNGULATE POPULATION. Ecology, 2004, 85, 1598-1610.	3.2	155
17	A joint atmosphere-ocean inversion for surface fluxes of carbon dioxide: 1. Methods and global-scale fluxes. Global Biogeochemical Cycles, 2007, 21, .	4.9	138
18	Reconciling estimates of the contemporary North American carbon balance among terrestrial biosphere models, atmospheric inversions, and a new approach for estimating net ecosystem exchange from inventoryâ€based data. Global Change Biology, 2012, 18, 1282-1299.	9.5	116

#	Article	IF	Citations
19	The 2015â€“2016 carbon cycle as seen from OCO-2 and the global in situ network. Atmospheric Chemistry and Physics, 2019, 19, 9797-9831.	4.9	113
20	Characterization of Tropospheric Emission Spectrometer (TES) CO₂ for carbon cycle science. Atmospheric Chemistry and Physics, 2010, 10, 5601-5623.	4.9	100
21	Quantifying the Impact of Atmospheric Transport Uncertainty on CO₂ Surface Flux Estimates. Global Biogeochemical Cycles, 2019, 33, 484-500.	4.9	95
22	ObsPack: a framework for the preparation, delivery, and attribution of atmospheric greenhouse gas measurements. Earth System Science Data, 2014, 6, 375-384.	9.9	88
23	A joint atmosphere-ocean inversion for surface fluxes of carbon dioxide: 2. Regional results. Global Biogeochemical Cycles, 2007, 21, .	4.9	77
24	Four years of global carbon cycle observed from the Orbiting Carbon Observatory 2 (OCO-2) versionÂ9 and in situ data and comparison to OCO-2 versionÂ7. Atmospheric Chemistry and Physics, 2022, 22, 1097-1130.	4.9	44
25	Impact of CO₂measurement bias on CarbonTracker surface flux estimates. Journal of Geophysical Research, 2011, 116, .	3.3	33
26	Modelâ€data comparison of MCI field campaign atmospheric CO₂ mole fractions. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10536-10551.	3.3	24
27	On the role of atmospheric model transport uncertainty in estimating the Chinese land carbon sink. Nature, 2022, 603, E13-E14.	27.8	21
28	Role of regression model selection and station distribution on the estimation of oceanic anthropogenic carbon change by eMLR. Biogeosciences, 2013, 10, 4801-4831.	3.3	17
29	Impact of Siberian observations on the optimization of surface CO₂ flux. Atmospheric Chemistry and Physics, 2017, 17, 2881-2899.	4.9	17
30	Constraints on oceanic meridional heat transport from combined measurements of oxygen and carbon. Climate Dynamics, 2016, 47, 3335-3357.	3.8	16
31	Iconic CO ₂ Time Series at Risk. Science, 2012, 337, 1038-1040.	12.6	15
32	Using altimetry to help explain patchy changes in hydrographic carbon measurements. Journal of Geophysical Research, 2009, 114, .	3.3	14
33	A large proportion of <scp>N</scp>orth <scp>A</scp>merican net ecosystem production is offset by emissions from harvested products, river/stream evasion, and biomass burning. Global Change Biology, 2013, 19, 3516-3528.	9.5	14
34	Detection limits of albedo changes induced by climate engineering. Nature Climate Change, 2014, 4, 93-98.	18.8	14
35	Blind prediction of broadband coherence time at basin scales. Journal of the Acoustical Society of America, 2003, 114, 3147-3154.	1.1	12
36	Gradients of column CO₂ across North America from the NOAA Global Greenhouse Gas Reference Network. Atmospheric Chemistry and Physics, 2017, 17, 15151-15165.	4.9	12

#	Article	IF	Citations
37	Observations of El NiÃ±o-Southern Oscillation induced Rossby waves in the northeast Pacific using in situ data. Journal of Geophysical Research, 1998, 103, 24585-24596.	3.3	10
38	Evaluation of CarbonTracker's Inverse Estimates of North American Net Ecosystem Exchange of CO₂ From Different Observing Systems Using ACTâ€America Airborne Observations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034406.	3.3	10
39	Correction to â€œA joint atmosphere-ocean inversion for surface fluxes of carbon dioxide: 1. Methods and global-scale fluxesâ€. Global Biogeochemical Cycles, 2007, 21, n/a-n/a.	4.9	5
40	Multiâ€Season Evaluation of CO₂ Weather in OCOâ€2 MIP Models. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	5
41	Comment on Lima & Berryman (2006): the Alpine ibex revisited. Climate Research, 2006, 32, 137-137.	1.1	2
42	Correction to â€œUsing altimetry to help explain patchy changes in hydrographic carbon measurementsâ€. Journal of Geophysical Research, 2009, 114, .	3.3	0
43	Reduction of uncertainties in remote measurement of greenhouse gas fluxes. , 2010, , .		0