

Andrew R Jacobson

List of Publications by Year in descending order

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Version: 2024-02-01

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	Four years of global carbon cycle observed from the Orbiting Carbon Observatory 2 (OCO-2) version 9 and in situ data and comparison to OCO-2 version 7. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1097-1130.	4.9	44
2	Multi-Season Evaluation of CO ₂ Weather in OCO-2 MIP Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	5
3	On the role of atmospheric model transport uncertainty in estimating the Chinese land carbon sink. <i>Nature</i> , 2022, 603, E13-E14.	27.8	21
4	Evaluation of CarbonTracker's Inverse Estimates of North American Net Ecosystem Exchange of CO ₂ From Different Observing Systems Using ACT-America Airborne Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034406.	3.3	10
5	The 2015–2016 carbon cycle as seen from OCO-2 and the global in situ network. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9797-9831.	4.9	113
6	Quantifying the Impact of Atmospheric Transport Uncertainty on CO ₂ Surface Flux Estimates. <i>Global Biogeochemical Cycles</i> , 2019, 33, 484-500.	4.9	95
7	Gradients of column CO ₂ across North America from the NOAA Global Greenhouse Gas Reference Network. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 15151-15165.	4.9	12
8	Impact of Siberian observations on the optimization of surface CO ₂ flux. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2881-2899.	4.9	17
9	Constraints on oceanic meridional heat transport from combined measurements of oxygen and carbon. <i>Climate Dynamics</i> , 2016, 47, 3335-3357.	3.8	16
10	Data-based estimates of the ocean carbon sink variability – first results of the Surface Ocean CO ₂ Mapping intercomparison (SOCOM). <i>Biogeosciences</i> , 2015, 12, 7251-7278.	3.3	163
11	The North American Carbon Program Multi-scale Synthesis and Terrestrial Model Intercomparison Project – Part 2: Environmental driver data. <i>Geoscientific Model Development</i> , 2014, 7, 2875-2893.	3.6	207
12	Detection limits of albedo changes induced by climate engineering. <i>Nature Climate Change</i> , 2014, 4, 93-98.	18.8	14
13	ObsPack: a framework for the preparation, delivery, and attribution of atmospheric greenhouse gas measurements. <i>Earth System Science Data</i> , 2014, 6, 375-384.	9.9	88
14	Model-data comparison of MCI field campaign atmospheric CO ₂ mole fractions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10536-10551.	3.3	24
15	A large proportion of North American net ecosystem production is offset by emissions from harvested products, river/stream evasion, and biomass burning. <i>Global Change Biology</i> , 2013, 19, 3516-3528.	9.5	14
16	Global atmospheric carbon budget: results from an ensemble of atmospheric CO ₂ inversions. <i>Biogeosciences</i> , 2013, 10, 6699-6720.	3.3	356
17	Role of regression model selection and station distribution on the estimation of oceanic anthropogenic carbon change by eMLR. <i>Biogeosciences</i> , 2013, 10, 4801-4831.	3.3	17
18	The North American Carbon Program Multi-Scale Synthesis and Terrestrial Model Intercomparison Project – Part 1: Overview and experimental design. <i>Geoscientific Model Development</i> , 2013, 6, 2121-2133.	3.6	212

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19	Iconic CO ₂ Time Series at Risk. <i>Science</i> , 2012, 337, 1038-1040.	12.6	15
20	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 inventory-based data. <i>Global Change Biology</i> , 2012, 18, 1282-1299.	9.5	116
21	Climatology of the planetary boundary layer over the continental United States and Europe. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	297
22	A synthesis of carbon dioxide emissions from fossil-fuel combustion. <i>Biogeosciences</i> , 2012, 9, 1845-1871.	3.3	271
23	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. <i>Ecological Modelling</i> , 2012, 232, 144-157.	2.5	207
24	Impact of CO ₂ measurement bias on CarbonTracker surface flux estimates. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	33
25	Characterization of Tropospheric Emission Spectrometer (TES) CO ₂ for carbon cycle science. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5601-5623.	4.9	100
26	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. <i>Global Change Biology</i> , 2010, 16, 1317-1337.	9.5	223
27	Trends and regional distributions of land and ocean carbon sinks. <i>Biogeosciences</i> , 2010, 7, 2351-2367.	3.3	167
28	Reduction of uncertainties in remote measurement of greenhouse gas fluxes. , 2010, , .		0
29	Oceanic sources, sinks, and transport of atmospheric CO ₂ . <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	455
30	Correction to "Using altimetry to help explain patchy changes in hydrographic carbon measurements". <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	0
31	Using altimetry to help explain patchy changes in hydrographic carbon measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	14
32	An atmospheric perspective on North American carbon dioxide exchange: CarbonTracker. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18925-18930.	7.1	895
33	A joint atmosphere-ocean inversion for surface fluxes of carbon dioxide: 1. Methods and global-scale fluxes. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	138
34	A joint atmosphere-ocean inversion for surface fluxes of carbon dioxide: 2. Regional results. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	77
35	Inverse estimates of the oceanic sources and sinks of natural CO ₂ and the implied oceanic carbon transport. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	156
36	Constraining global air-sea gas exchange for CO ₂ with recent bomb ¹⁴ C measurements. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	4.9	442

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37	Correction to "A joint atmosphere-ocean inversion for surface fluxes of carbon dioxide: 1. Methods and global-scale fluxes". <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	4.9	5
38	Inverse estimates of anthropogenic CO ₂ uptake, transport, and storage by the ocean. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	4.9	331
39	Comment on Lima & Berryman (2006): the Alpine ibex revisited. <i>Climate Research</i> , 2006, 32, 137-137.	1.1	2
40	CLIMATE FORCING AND DENSITY DEPENDENCE IN A MOUNTAIN UNGULATE POPULATION. <i>Ecology</i> , 2004, 85, 1598-1610.	3.2	155
41	Blind prediction of broadband coherence time at basin scales. <i>Journal of the Acoustical Society of America</i> , 2003, 114, 3147-3154.	1.1	12
42	Observations of El Niño-Southern Oscillation induced Rossby waves in the northeast Pacific using in situ data. <i>Journal of Geophysical Research</i> , 1998, 103, 24585-24596.	3.3	10
43	Perceptual organization and focused attention: The role of objects and proximity in visual processing. <i>Perception & Psychophysics</i> , 1991, 50, 267-284.	2.3	372