

Bryan N Duncan

List of Publications by Year in descending order

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46
papers

6,330
citations

185998

28
h-index

223531

46
g-index

47
all docs

47
docs citations

47
times ranked

6371
citing authors

#	ARTICLE	IF	CITATIONS
1	Tropospheric Aerosol Optical Thickness from the GOCART Model and Comparisons with Satellite and Sun Photometer Measurements. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 461-483.	0.6	1,226
2	Interannual and seasonal variability of biomass burning emissions constrained by satellite observations. <i>Journal of Geophysical Research</i> , 2003, 108, ACH 1-1.	3.3	609
3	Aura OMI observations of regional SO ₂ and NO ₂ pollution changes from 2005 to 2015. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4605-4629.	1.9	521
4	Transport pathways for Asian pollution outflow over the Pacific: Interannual and seasonal variations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	331
5	Emissions estimation from satellite retrievals: A review of current capability. <i>Atmospheric Environment</i> , 2013, 77, 1011-1042.	1.9	323
6	A space-based, high-resolution view of notable changes in urban NO _x pollution around the world (2005–2014). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 976-996.	1.2	322
7	Application of OMI observations to a space-based indicator of NO _x and VOC controls on surface ozone formation. <i>Atmospheric Environment</i> , 2010, 44, 2213-2223.	1.9	292
8	The Ozone Monitoring Instrument: overview of 14 years in space. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5699-5745.	1.9	259
9	Transatlantic transport of pollution and its effects on surface ozone in Europe and North America. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 4-1.	3.3	253
10	Estimates of the Global Burden of Ambient PM _{2.5} , Ozone, and NO ₂ on Asthma Incidence and Emergency Room Visits. <i>Environmental Health Perspectives</i> , 2018, 126, 107004.	2.8	209
11	Satellite data of atmospheric pollution for U.S. air quality applications: Examples of applications, summary of data end-user resources, answers to FAQs, and common mistakes to avoid. <i>Atmospheric Environment</i> , 2014, 94, 647-662.	1.9	186
12	Interpretation of TOMS observations of tropical tropospheric ozone with a global model and in situ observations. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 4-1.	3.3	174
13	Evaluating a Space-Based Indicator of Surface Ozone-NO _x -VOC Sensitivity Over Midlatitude Source Regions and Application to Decadal Trends. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10-461.	1.2	165
14	U.S. NO ₂ trends (2005–2013): EPA Air Quality System (AQS) data versus improved observations from the Ozone Monitoring Instrument (OMI). <i>Atmospheric Environment</i> , 2015, 110, 130-143.	1.9	162
15	A 3-D model analysis of the slowdown and interannual variability in the methane growth rate from 1988 to 1997. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	147
16	Intercontinental Impacts of Ozone Pollution on Human Mortality. <i>Environmental Science & Technology</i> , 2009, 43, 6482-6487.	4.6	126
17	A tropospheric ozone maximum over the Middle East. <i>Geophysical Research Letters</i> , 2001, 28, 3235-3238.	1.5	122
18	Sources of tropospheric ozone along the Asian Pacific Rim: An analysis of ozonesonde observations. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 3-1-ACH 3-19.	3.3	121

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19	Anthropogenic emissions of highly reactive volatile organic compounds in eastern Texas inferred from oversampling of satellite (OMI) measurements of HCHO columns. <i>Environmental Research Letters</i> , 2014, 9, 114004.	2.2	95
20	Chemical nonlinearities in relating intercontinental ozone pollution to anthropogenic emissions. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	63
21	Description of the NASA GEOS Composition Forecast Modeling System GEOSâ€CF v1.0. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002413.	1.3	52
22	Frequency and impact of summertime stratospheric intrusions over Maryland during DISCOVERâ€AQ (2011): New evidence from NASA's GEOSâ€5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3687-3706.	1.2	49
23	Chemical Mechanisms and Their Applications in the Goddard Earth Observing System (GEOS) Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 3019-3044.	1.3	47
24	Influence of the 2006 Indonesian biomass burning aerosols on tropical dynamics studied with the GEOSâ€5 AGCM. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	42
25	A methodology to constrain carbon dioxide emissions from coal-fired power plants using satellite observations of co-emitted nitrogen dioxide. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 99-116.	1.9	40
26	Spaceâ€Based Observations for Understanding Changes in the Arcticâ€Boreal Zone. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000652.	9.0	39
27	Exploiting OMI NO2 satellite observations to infer fossil-fuel CO2 emissions from U.S. megacities. <i>Science of the Total Environment</i> , 2019, 695, 133805.	3.9	37
28	Temperature dependence of factors controlling isoprene emissions. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	36
29	Interpreting space-based trends in carbon monoxide with multiple models. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7285-7294.	1.9	31
30	Air Pollution Monitoring for Health Research and Patient Care. An Official American Thoracic Society Workshop Report. <i>Annals of the American Thoracic Society</i> , 2019, 16, 1207-1214.	1.5	25
31	Using Satellites to Track Indicators of Global Air Pollution and Climate Change Impacts: Lessons Learned From a NASAâ€Supported Scienceâ€Stakeholder Collaborative. <i>GeoHealth</i> , 2020, 4, e2020GH000270.	1.9	25
32	Satellite Monitoring for Air Quality and Health. <i>Annual Review of Biomedical Data Science</i> , 2021, 4, 417-447.	2.8	25
33	A machine learning examination of hydroxyl radical differences among model simulations for CCMI-1. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1341-1361.	1.9	24
34	A decade of changes in nitrogen oxides over regions of oil and natural gas activity in the United States. <i>Elementa</i> , 2017, 5, .	1.1	21
35	Strong sensitivity of the isotopic composition of methane to the plausible range of tropospheric chlorine. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8405-8419.	1.9	21
36	An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7461-7488.	1.2	18

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37	Spatial and temporal variability in the hydroxyl (OH) radical: understanding the role of large-scale climate features and their influence on OH through its dynamical and photochemical drivers. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6481-6508.	1.9	15
38	Earth Observations and Integrative Models in Support of Food and Water Security. <i>Remote Sensing in Earth Systems Sciences</i> , 2019, 2, 18-38.	1.1	11
39	Global O ₃ –CO correlations in a chemistry and transport model during July–August: evaluation with TES satellite observations and sensitivity to input meteorological data and emissions. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8429-8452.	1.9	10
40	Potential improvements in global carbon flux estimates from a network of laser heterodyne radiometer measurements of column carbon dioxide. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 2579-2594.	1.2	10
41	Communicating respiratory health risk among children using a global air quality index. <i>Environment International</i> , 2022, 159, 107023.	4.8	10
42	Sensitivity of photolysis frequencies and key tropospheric oxidants in a global model to cloud vertical distributions and optical properties. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	9
43	The description and validation of the computationally Efficient CH ₄ –CO–OH (ECCOHv1.01) chemistry module for 3-D model applications. <i>Geoscientific Model Development</i> , 2016, 9, 799-822.	1.3	9
44	The benefits of lower ozone due to air pollution emission reductions (2002–2011) in the Eastern United States during extreme heat. <i>Journal of the Air and Waste Management Association</i> , 2020, 70, 193-205.	0.9	6
45	Augmenting the Standard Operating Procedures of Health and Air Quality Stakeholders With NASA Resources. <i>GeoHealth</i> , 2021, 5, e2021GH000451.	1.9	4
46	Peroxy acetyl nitrate (PAN) measurements at northern midlatitude mountain sites in April: a constraint on continental source–receptor relationships. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15345-15361.	1.9	3