Bryan N Duncan

List of Publications by Year
in descending order

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	Communicating respiratory health risk among children using a global air quality index. Environment International, 2022, 159, 107023.	4.8	10
2	Description of the NASA GEOS Composition Forecast Modeling System GEOSâ€CF v1.0. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002413.	1.3	52
3	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. Atmospheric Chemistry and Physics, 2021, 21, 6481-6508.	1.9	15
4	Satellite Monitoring for Air Quality and Health. Annual Review of Biomedical Data Science, 2021, 4, 417-447.	2.8	25
5	Augmenting the Standard Operating Procedures of Health and Air Quality Stakeholders With NASA Resources. GeoHealth, 2021, 5, e2021GH000451.	1.9	4
6	Spaceâ€Based Observations for Understanding Changes in the Arcticâ€Boreal Zone. Reviews of Geophysics, 2020, 58, e2019RG000652.	9.0	39
7	The benefits of lower ozone due to air pollution emission reductions (2002â€"2011) in the Eastern United States during extreme heat. Journal of the Air and Waste Management Association, 2020, 70, 193-205.	0.9	6
8	Using Satellites to Track Indicators of Global Air Pollution and Climate Change Impacts: Lessons Learned From a NASAâ€Supported Scienceâ€Stakeholder Collaborative. GeoHealth, 2020, 4, e2020GH000270.	1.9	25
9	A machine learning examination of hydroxyl radical differences among model simulations for CCMI-1. Atmospheric Chemistry and Physics, 2020, 20, 1341-1361.	1.9	24
10	A methodology to constrain carbon dioxide emissions from coal-fired power plants using satellite observations of co-emitted nitrogen dioxide. Atmospheric Chemistry and Physics, 2020, 20, 99-116.	1.9	40
11	Strong sensitivity of the isotopic composition of methane to the plausible range of tropospheric chlorine. Atmospheric Chemistry and Physics, 2020, 20, 8405-8419.	1.9	21
12	Air Pollution Monitoring for Health Research and Patient Care. An Official American Thoracic Society Workshop Report. Annals of the American Thoracic Society, 2019, 16, 1207-1214.	1.5	25
13	Exploiting OMI NO2 satellite observations to infer fossil-fuel CO2 emissions from U.S. megacities. Science of the Total Environment, 2019, 695, 133805.	3.9	37
14	Potential improvements in global carbon flux estimates from a network of laser heterodyne radiometer measurements of column carbon dioxide. Atmospheric Measurement Techniques, 2019, 12, 2579-2594.	1.2	10
15	Earth Observations and Integrative Models in Support of Food and Water Security. Remote Sensing in Earth Systems Sciences, 2019, 2, 18-38.	1.1	11
16	Peroxy acetyl nitrate (PAN) measurements at northern midlatitude mountain sites in April: a constraint on continental sourceâ€"receptor relationships. Atmospheric Chemistry and Physics, 2018, 18, 15345-15361.	1.9	3
17	Estimates of the Global Burden of Ambient PM2.5, Ozone, and NO2 on Asthma Incidence and Emergency Room Visits. Environmental Health Perspectives, 2018, 126, 107004.	2.8	209
18	The Ozone Monitoring Instrument: overview of 14 years in space. Atmospheric Chemistry and Physics, 2018, 18, 5699-5745.	1.9	259

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19	Evaluating a Spaceâ€Based Indicator of Surface Ozoneâ€NO_{<i>x</i>}â€VOC Sensitivity Over Midlatitude Source Regions and Application to Decadal Trends. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10-461.	1.2	165
20	Global O₃â€“CO correlations in a chemistry and transport model during Julyâ€“August: evaluation with TES satellite observations and sensitivity to input meteorological data and emissions. Atmospheric Chemistry and Physics, 2017, 17, 8429-8452.	1.9	10
21	Chemical Mechanisms and Their Applications in the Goddard Earth Observing System (GEOS) Earth System Model. Journal of Advances in Modeling Earth Systems, 2017, 9, 3019-3044.	1.3	47
22	A decade of changes in nitrogen oxides over regions of oil and natural gas activity in the United States. Elementa, 2017, 5, .	1.1	21
23	Frequency and impact of summertime stratospheric intrusions over Maryland during DISCOVERâ€AQ (2011): New evidence from NASA's GEOSâ€5 simulations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3687-3706.	1.2	49
24	A spaceâ€based, highâ€resolution view of notable changes in urban NO_x pollution around the world (2005â€“2014). Journal of Geophysical Research D: Atmospheres, 2016, 121, 976-996.	1.2	322
25	An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7461-7488.	1.2	18
26	Aura OMI observations of regional SO₂ and NO₂ pollution changes from 2005 to 2015. Atmospheric Chemistry and Physics, 2016, 16, 4605-4629.	1.9	521
27	Interpreting space-based trends in carbon monoxide with multiple models. Atmospheric Chemistry and Physics, 2016, 16, 7285-7294.	1.9	31
28	The description and validation of the computationally Efficient CH₄â€“COâ€“OH (ECCOHv1.01) chemistry module for 3-D model applications. Geoscientific Model Development, 2016, 9, 799-822.	1.3	9
29	U.S. NO2 trends (2005â€“2013): EPA Air Quality System (AQS) data versus improved observations from the Ozone Monitoring Instrument (OMI). Atmospheric Environment, 2015, 110, 130-143.	1.9	162
30	Anthropogenic emissions of highly reactive volatile organic compounds in eastern Texas inferred from oversampling of satellite (OMI) measurements of HCHO columns. Environmental Research Letters, 2014, 9, 114004.	2.2	95
31	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. Atmospheric Environment, 2014, 94, 647-662.	1.9	186
32	Emissions estimation from satellite retrievals: A review of current capability. Atmospheric Environment, 2013, 77, 1011-1042.	1.9	323
33	Application of OMI observations to a space-based indicator of NOx and VOC controls on surface ozone formation. Atmospheric Environment, 2010, 44, 2213-2223.	1.9	292
34	Influence of the 2006 Indonesian biomass burning aerosols on tropical dynamics studied with the GEOSâ€5 AGCM. Journal of Geophysical Research, 2010, 115, .	3.3	42
35	Intercontinental Impacts of Ozone Pollution on Human Mortality. Environmental Science & Technology, 2009, 43, 6482-6487.	4.6	126
36	Sensitivity of photolysis frequencies and key tropospheric oxidants in a global model to cloud vertical distributions and optical properties. Journal of Geophysical Research, 2009, 114, .	3.3	9

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37	Chemical nonlinearities in relating intercontinental ozone pollution to anthropogenic emissions. Geophysical Research Letters, 2009, 36, .	1.5	63
38	Temperature dependence of factors controlling isoprene emissions. Geophysical Research Letters, 2009, 36, .	1.5	36
39	A 3-D model analysis of the slowdown and interannual variability in the methane growth rate from 1988 to 1997. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	147
40	Interannual and seasonal variability of biomass burning emissions constrained by satellite observations. Journal of Geophysical Research, 2003, 108, ACH 1-1.	3.3	609
41	Transport pathways for Asian pollution outflow over the Pacific: Interannual and seasonal variations. Journal of Geophysical Research, 2003, 108, .	3.3	331
42	Tropospheric Aerosol Optical Thickness from the GOCART Model and Comparisons with Satellite and Sun Photometer Measurements. Journals of the Atmospheric Sciences, 2002, 59, 461-483.	0.6	1,226
43	Transatlantic transport of pollution and its effects on surface ozone in Europe and North America. Journal of Geophysical Research, 2002, 107, ACH 4-1.	3.3	253
44	Interpretation of TOMS observations of tropical tropospheric ozone with a global model and in situ observations. Journal of Geophysical Research, 2002, 107, ACH 4-1.	3.3	174
45	Sources of tropospheric ozone along the Asian Pacific Rim: An analysis of ozonesonde observations. Journal of Geophysical Research, 2002, 107, ACH 3-1-ACH 3-19.	3.3	121
46	A tropospheric ozone maximum over the Middle East. Geophysical Research Letters, 2001, 28, 3235-3238.	1.5	122