Daniel Q Tong

List of Publications by Year
in descending order

97 papers	3,541 citations	136740 32 h-index	155451 55 g-index
121 all docs	121 docs citations	121 times ranked	4428 citing authors

#	Article	IF	Citations
1	The particle dry deposition component of total deposition from air quality models: right, wrong or uncertain?. Tellus, Series B: Chemical and Physical Meteorology, 2022, 71, 1550324.	0.8	44
2	High-resolution inventory of emissions of atmospheric PM10 from agricultural tillage and harvesting operations in China: historical trend, spatio-temporality, and optimization methodology. Air Quality, Atmosphere and Health, 2022, 15, 853-865.	1.5	7
3	A review of Earth Artificial Intelligence. Computers and Geosciences, 2022, 159, 105034.	2.0	80
4	Evaluating Machine Learning and Remote Sensing in Monitoring NO2 Emission of Power Plants. Remote Sensing, 2022, 14, 729.	1.8	8
5	Are Opportunities to Apply Airborne Dust Research Being Missed?. Bulletin of the American Meteorological Society, 2022, 103, E1587-E1594.	1.7	2
6	Development and evaluation of an advanced National Air Quality Forecasting Capability using the NOAA Global Forecast System version 16. Geoscientific Model Development, 2022, 15, 3281-3313.	1.3	8
7	Pronounced increases in nitrogen emissions and deposition due to the historic 2020 wildfires in the western U.S.. Science of the Total Environment, 2022, 839, 156130.	3.9	6
8	Dust Storms, Valley Fever, and Public Awareness. GeoHealth, 2022, 6, .	1.9	13
9	Comparison of chemical lateral boundary conditions for air quality predictions over the contiguous United States during pollutant intrusion events. Atmospheric Chemistry and Physics, 2021, 21, 2527-2550.	1.9	4
10	Interannual and Seasonal Variability of Greenhouse Gases and Aerosol Emissions from Biomass Burning in Northeastern China Constrained by Satellite Observations. Remote Sensing, 2021, 13, 1005.	1.8	5
11	Chemical Composition and Source Apportionment of Wintertime Airborne PM2.5 in Changchun, Northeastern China. International Journal of Environmental Research and Public Health, 2021, 18, 4354.	1.2	5
12	Shaping the Future of Science: COVIDâ€19 Highlighting the Importance of GeoHealth. GeoHealth, 2021, 5, e2021GH000412.	1.9	5
13	Comprehensive and high-resolution emission inventory of atmospheric pollutants for the northernmost cities agglomeration of Harbin-Changchun, China: Implications for local atmospheric environment management. Journal of Environmental Sciences, 2021, 104, 150-168.	3.2	10
14	Comparison of Aerosol Optical Depth from MODIS Product Collection 6.1 and AERONET in the Western United States. Remote Sensing, 2021, 13, 2316.	1.8	13
15	Evaluation of the offline-coupled GFSv15â€“FV3â€“CMAQv5.0.2 in support of the next-generation National Air Quality Forecast Capability over the contiguous United States. Geoscientific Model Development, 2021, 14, 3969-3993.	1.3	2
16	A multi-analysis approach for estimating regional health impacts from the 2017 Northern California wildfires. Journal of the Air and Waste Management Association, 2021, 71, 791-814.	0.9	25
17	Satellite Monitoring for Air Quality and Health. Annual Review of Biomedical Data Science, 2021, 4, 417-447.	2.8	25
18	Combining Optical and Radar Satellite Imagery to Investigate the Surface Properties and Evolution of the Lordsburg Playa, New Mexico, USA. Remote Sensing, 2021, 13, 3402.	1.8	9

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19	COVIDâ€19 Induced Fingerprints of a New Normal Urban Air Quality in the United States. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034797.	1.2	11
20	Impacts of the COVID-19 economic slowdown on ozone pollution in the U.S.. Atmospheric Environment, 2021, 264, 118713.	1.9	20
21	Acute ambient air pollution exposure and placental Doppler results in the NICHD fetal growth studies â€“ Singleton cohort. Environmental Research, 2021, 202, 111728.	3.7	4
22	Dominance of Wildfires Impact on Air Quality Exceedances During the 2020 Recordâ€Breaking Wildfire Season in the United States. Geophysical Research Letters, 2021, 48, e2021GL094908.	1.5	28
23	Spring Dust in Western North America and Its Interannual Variabilityâ€"Understanding the Role of Local and Transported Dust. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035383.	1.2	10
24	Improving predictability of high-ozone episodes through dynamic boundary conditions, emission refresh and chemical data assimilation during the Long Island Sound Tropospheric Ozone Study (LISTOS) field campaign. Atmospheric Chemistry and Physics, 2021, 21, 16531-16553.	1.9	5
25	Impacts of post-harvest open biomass burning and burning ban policy on severe haze in the Northeastern China. Science of the Total Environment, 2020, 716, 136517.	3.9	50
26	Community venue exposure risk estimator for the COVID-19 pandemic. Health and Place, 2020, 66, 102450.	1.5	25
27	Ensemble PM_{2.5} Forecasting During the 2018 Camp Fire Event Using the HYSPLIT Transport and Dispersion Model. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032768.	1.2	21
28	Impact of Fire Emissions on U.S. Air Quality from 1997 to 2016â€"A Modeling Study in the Satellite Era. Remote Sensing, 2020, 12, 913.	1.8	12
29	Air quality impacts of the 2018 Mt. Kilauea Volcano eruption in Hawaii: A regional chemical transport model study with satellite-constrained emissions. Atmospheric Environment, 2020, 237, 117648.	1.9	18
30	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
31	Evaluating a fire smoke simulation algorithm in the National Air Quality Forecast Capability (NAQFC) by using multiple observation data sets during the Southeast Nexus (SENEX) field campaign. Geoscientific Model Development, 2020, 13, 2169-2184.	1.3	4
32	Inventory of Atmospheric Pollutant Emissions from Burning of Crop Residues in China Based on Satellite-retrieved Farmland Data. Chinese Geographical Science, 2020, 30, 266-278.	1.2	5
33	The long-term trend and production sensitivity change in the US ozone pollution from observations and model simulations. Atmospheric Chemistry and Physics, 2020, 20, 3191-3208.	1.9	24
34	Spatial Particulate Fields during High Winds in the Imperial Valley, California. Atmosphere, 2020, 11, 88.	1.0	3
35	Evaluating Ammonia (NH₃) Predictions in the NOAA NAQFC for Eastern North Carolina Using Ground Level and Satellite Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8242-8259.	1.2	6
36	A comprehensive inventory of agricultural atmospheric particulate matters (PM10 and PM2.5) and gaseous pollutants (VOCs, SO2, NH3, CO, NOx and HC) emissions in China. Ecological Indicators, 2019, 107, 105609.	2.6	46

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37	Multimodel simulations of a springtime dust storm over northeastern China: implications of an evaluation of four commonly used air quality models (CMAQ v5.2.1, CAMx v6.50, CHIMERE v2017r4, and) Tj ETQq1 1 0.784314 rgBT /O	1.3	24
38	Review on physicochemical properties of pollutants released from fireworks: environmental and health effects and prevention. Environmental Reviews, 2018, 26, 133-155.	2.1	30
39	CyberConnector: a service-oriented system for automatically tailoring multisource Earth observation data to feed Earth science models. Earth Science Informatics, 2018, 11, 1-17.	1.6	24
40	Satelliteâ€Based Daily PM_{2.5} Estimates During Fire Seasons in Colorado. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8159-8171.	1.2	36
41	Ammonia emissions from biomass burning in the continental United States. Atmospheric Environment, 2018, 187, 50-61.	1.9	30
42	Toward a Unified National Dust Modeling Capability. Springer Proceedings in Complexity, 2018, , 353-360.	0.2	0
43	Typical atmospheric haze during crop harvest season in northeastern China: A case in the Changchun region. Journal of Environmental Sciences, 2017, 54, 101-113.	3.2	47
44	Improving NOAA NAQFC PM2.5 Predictions with a Bias Correction Approach. Weather and Forecasting, 2017, 32, 407-421.	0.5	45
45	Intensified dust storm activity and Valley fever infection in the southwestern United States. Geophysical Research Letters, 2017, 44, 4304-4312.	1.5	163
46	Evaluating ammonia (NH3) predictions in the NOAA National Air Quality Forecast Capability (NAQFC) using in-situ aircraft and satellite measurements from the CalNex2010 campaign. Atmospheric Environment, 2017, 163, 65-76.	1.9	34
47	Impact of Moderate Resolution Imaging Spectroradiometer Aerosol Optical Depth and AirNow PM_{2.5} assimilation on Community Multiâ€scale Air Quality aerosol predictions over the contiguous United States. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5399-5415.	1.2	22
48	Local PM10 and PM2.5 emission inventories from agricultural tillage and harvest in northeastern China. Journal of Environmental Sciences, 2017, 57, 15-23.	3.2	48
49	NAQFC Developmental Forecast Guidance for Fine Particulate Matter (PM2.5). Weather and Forecasting, 2017, 32, 343-360.	0.5	57
50	Multi-year downscaling application of two-way coupled WRF v3.4 and CMAQ v5.0.2 over east Asia for regional climate and air quality modeling: model evaluation and aerosol direct effects. Geoscientific Model Development, 2017, 10, 2447-2470.	1.3	55
51	Effects of Agricultural Biomass Burning on Regional Haze in China: A Review. Atmosphere, 2017, 8, 88.	1.0	58
52	The Association between Ambient Air Pollution and Allergic Rhinitis: Further Epidemiological Evidence from Changchun, Northeastern China. International Journal of Environmental Research and Public Health, 2017, 14, 226.	1.2	67
53	AÂcase study of aerosol data assimilation with the Community Multi-scale Air Quality Model over the contiguous United States using 3D-Var and optimal interpolation methods. Geoscientific Model Development, 2017, 10, 4743-4758.	1.3	39
54	Reconstructing Fire Records from Ground-Based Routine Aerosol Monitoring. Atmosphere, 2016, 7, 43.	1.0	3

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55	A Systematic Review of Global Desert Dust and Associated Human Health Effects. Atmosphere, 2016, 7, 158.	1.0	122
56	Impact of the 2008 Global Recession on air quality over the United States: Implications for surface ozone levels from changes in NO_x emissions. Geophysical Research Letters, 2016, 43, 9280-9288.	1.5	25
57	Model development of dust emission and heterogeneous chemistry within the Community Multiscale Air Quality modeling system and its application over East Asia. Atmospheric Chemistry and Physics, 2016, 16, 8157-8180.	1.9	51
58	Introduction to a Special Issue of JA&WMA on NOAAâ€™s 7th International Workshop on Air Quality Forecasting Research (IWAQFR). Journal of the Air and Waste Management Association, 2016, 66, 815-818.	0.9	0
59	Coupling of Earth science models and earth observations through OGC interoperability specifications. , 2016, , .		1
60	Merged dust climatology in Phoenix, Arizona based on satellite and station data. Climate Dynamics, 2016, 47, 2785-2799.	1.7	9
61	Evaluating ammonia (NH3) predictions in the NOAA National Air Quality Forecast Capability (NAQFC) using in situ aircraft, ground-level, and satellite measurements from the DISCOVER-AQ Colorado campaign. Atmospheric Environment, 2016, 140, 342-351.	1.9	27
62	The Performance and Issues of a Regional Chemical Transport Model During Discover-AQ 2014 Aircraft Measurements Over Colorado. Springer Proceedings in Complexity, 2016, , 635-640.	0.2	1
63	Toward enhanced capability for detecting and predicting dust events in the western United States: the Arizona case study. Atmospheric Chemistry and Physics, 2015, 15, 12595-12610.	1.9	14
64	Observation and modeling of black soil wind-blown erosion from cropland in Northeastern China. Aeolian Research, 2015, 19, 153-162.	1.1	23
65	Long-term NOx trends over large cities in the United States during the great recession: Comparison of satellite retrievals, ground observations, and emission inventories. Atmospheric Environment, 2015, 107, 70-84.	1.9	107
66	Temporal variability of atmospheric particulate matter and chemical composition during a growing season at an agricultural site in northeastern China. Journal of Environmental Sciences, 2015, 38, 133-141.	3.2	22
67	Using optimal interpolation to assimilate surface measurements and satellite AOD for ozone and PM_{2.5}: A case study for July 2011. Journal of the Air and Waste Management Association, 2015, 65, 1206-1216.	0.9	29
68	Effect of dramatic land use change on gaseous pollutant emissions from biomass burning in Northeastern China. Atmospheric Research, 2015, 153, 429-436.	1.8	23
69	Assessment of NOx and O3 forecasting performances in the U.S. National Air Quality Forecasting Capability before and after the 2012 major emissions updates. Atmospheric Environment, 2014, 95, 610-619.	1.9	43
70	Building and Testing Atmospheric Chemistry Reanalysis Modeling System. Springer Proceedings in Complexity, 2014, , 581-585.	0.2	1
71	Assimilation of Satellite Oceanic and Atmospheric Products to Improve Emission Forecasting. Springer Proceedings in Complexity, 2014, , 563-569.	0.2	0
72	Intensive Campaigns Supported by Air Quality Forecasting Capability to Identify Chemical and Atmospheric Regimes Susceptible to Standard Violations. Springer Proceedings in Complexity, 2014, , 587-592.	0.2	0

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73	Does warmer China land attract more super typhoons?. Scientific Reports, 2013, 3, 1522.	1.6	16
74	Evaluation of the United States National Air Quality Forecast Capability experimental real-time predictions in 2010 using Air Quality System ozone and NO₂ measurements. Geoscientific Model Development, 2013, 6, 1831-1850.	1.3	64
75	Long-term dust climatology in the western United States reconstructed from routine aerosol ground monitoring. Atmospheric Chemistry and Physics, 2012, 12, 5189-5205.	1.9	72
76	Summertime weekly cycles of observed and modeled NO_x and O₃ concentrations as a function of satellite-derived ozone production sensitivity and land use types over the Continental United States. Atmospheric Chemistry and Physics, 2012, 12, 6291-6307.	1.9	67
77	Effect of fires on soil organic carbon pool and mineralization in a Northeastern China wetland. Geoderma, 2012, 189-190, 532-539.	2.3	52
78	New Directions: The need to develop process-based emission forecasting models. Atmospheric Environment, 2012, 47, 560-561.	1.9	17
79	The Global Burden of Air Pollution on Mortality: Anenberg et al. Respond. Environmental Health Perspectives, 2011, 119, 158-159.	2.8	9
80	Incremental Development of Air Quality Forecasting System with Off-Line/On-Line Capability: Coupling CMAQ to NCEP National Mesoscale Model. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 187-192.	0.1	1
81	Eta-CMAQ air quality forecasts for O₃ and related species using three different photochemical mechanisms (CB4, CB05, SAPRC-99): comparisons with measurements during the 2004 ICARTT study. Atmospheric Chemistry and Physics, 2010, 10, 3001-3025.	1.9	55
82	Massive volcanic SO2 oxidation and sulphate aerosol deposition in Cenozoic North America. Nature, 2010, 465, 909-912.	13.7	41
83	The Global Burden of Air Pollution on Mortality: Anenberg et al. respond. Environmental Health Perspectives, 2010, 118, .	2.8	1
84	An Estimate of the Global Burden of Anthropogenic Ozone and Fine Particulate Matter on Premature Human Mortality Using Atmospheric Modeling. Environmental Health Perspectives, 2010, 118, 1189-1195.	2.8	604
85	A study of the ozone formation by ensemble back trajectory-process analysis using the Etaâ€“CMAQ forecast model over the northeastern U.S. during the 2004 ICARTT period. Atmospheric Environment, 2009, 43, 355-363.	1.9	21
86	Vegetation exposure to ozone over the continental United States: Assessment of exposure indices by the Eta-CMAQ air quality forecast model. Atmospheric Environment, 2009, 43, 724-733.	1.9	24
87	The impact of chemical lateral boundary conditions on CMAQ predictions of tropospheric ozone over the continental United States. Environmental Fluid Mechanics, 2009, 9, 43-58.	0.7	72
88	Using air quality modeling to study sourceâ€“receptor relationships between nitrogen oxides emissions and ozone exposures over the United States. Environment International, 2009, 35, 1109-1117.	4.8	18
89	Evaluation of realâ€time PM_{2.5} forecasts and process analysis for PM_{2.5} formation over the eastern United States using the Etaâ€CMAQ forecast model during the 2004 ICARTT study. Journal of Geophysical Research, 2008, 113, .	3.3	75
90	Summertime State-Level Source-Receptor Relationships between Nitrogen Oxides Emissions and Surface Ozone Concentrations over the Continental United States. Environmental Science & Technology, 2008, 42, 7976-7984.	4.6	17

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91	Evaluating the Effects of Emission Reductions on Multiple Pollutants Simultaneously. NATO Security Through Science Series C: Environmental Security, 2008, , 623-631.	0.1	0
92	The use of air quality forecasts to assess impacts of air pollution on crops: Methodology and case study. Atmospheric Environment, 2007, 41, 8772-8784.	1.9	22
93	Characterization of Major Chemical Components of Fine Particulate Matter in North Carolina. Journal of the Air and Waste Management Association, 2006, 56, 1099-1107.	0.9	38
94	Integrated Assessment of the Spatial Variability of Ozone Impacts from Emissions of Nitrogen Oxides. Environmental Science & Technology, 2006, 40, 1395-1400.	4.6	38
95	Spatial variability of summertime tropospheric ozone over the continental United States: Implications of an evaluation of the CMAQ model. Atmospheric Environment, 2006, 40, 3041-3056.	1.9	67
96	Chemical coupling between ammonia, acid gases, and fine particles. Environmental Pollution, 2004, 129, 89-98.	3.7	127
97	Measurements and analysis of criteria pollutants in New Delhi, India. Environment International, 2001, 27, 35-42.	4.8	140