Youhua Tang

List of Publications by Year in descending order

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		182225	190340
60	3,175	30	53
papers	citations	h-index	g-index

76	76	76	3781
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	Impacts of the COVID-19 economic slowdown on ozone pollution in the U.S.. Atmospheric Environment, 2021, 264, 118713.	1.9	20
5	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
6	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
7	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
8	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
9	Toward Improving Shortâ€Term Predictions of Fine Particulate Matter Over the United States Via Assimilation of Satellite Aerosol Optical Depth Retrievals. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2753-2773.	1.2	28
10	Ammonia emissions from biomass burning in the continental United States. Atmospheric Environment, 2018, 187, 50-61.	1.9	30
11	Dynamic Coupling of the NMMB and CMAQ Models Through the U.S. National Unified Operational Prediction Capability (NUOPC). Springer Proceedings in Complexity, 2018, , 195-200.	0.2	0
12	Toward a Unified National Dust Modeling Capability. Springer Proceedings in Complexity, 2018, , 353-360.	0.2	0
13	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
14	NAQFC Developmental Forecast Guidance for Fine Particulate Matter (PM2.5). Weather and Forecasting, 2017, 32, 343-360.	0.5	57
15	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
16	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
17	The implementation of NEMS GFS Aerosol Component (NGAC) Version 1.0 for global dust forecasting at NOAA/NCEP. Geoscientific Model Development, 2016, 9, 1905-1919.	1.3	26
18	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

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19	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
20	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
21	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
22	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
23	Study of atmospheric mercury budget in East Asia using STEM-Hg modeling system. Science of the Total Environment, 2010, 408, 3277-3291.	3.9	35
24	Asian Aerosols: Current and Year 2030 Distributions and Implications to Human Health and Regional Climate Change. Environmental Science & Technology, 2009, 43, 5811-5817.	4.6	152
25	Regional NOx emission inversion through a four-dimensional variational approach using SCIAMACHY tropospheric NO2 column observations. Atmospheric Environment, 2009, 43, 5046-5055.	1.9	54
26	Impact of consistent boundary layer mixing approaches between NAM and CMAQ. Environmental Fluid Mechanics, 2009, 9, 23-42.	0.7	8
27	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
28	Predicting air quality: Improvements through advanced methods to integrate models and measurements. Journal of Computational Physics, 2008, 227, 3540-3571.	1.9	134
29	A regional analysis of the fate and transport of mercury in East Asia and an assessment of major uncertainties. Atmospheric Environment, 2008, 42, 1144-1159.	1.9	30
30	Predicting Air Quality: Current Status and Future Directions. NATO Security Through Science Series C: Environmental Security, 2008, , 481-495.	0.1	1
31	Influence of lateral and top boundary conditions on regional air quality prediction: A multiscale study coupling regional and global chemical transport models. Journal of Geophysical Research, 2007, 112, .	3.3	82
32	Improving regional ozone modeling through systematic evaluation of errors using the aircraft observations during the International Consortium for Atmospheric Research on Transport and Transformation. Journal of Geophysical Research, 2007, 112, .	3.3	13
33	Four-dimensional data assimilation experiments with International Consortium for Atmospheric Research on Transport and Transformation ozone measurements. Journal of Geophysical Research, 2007, 112, .	3.3	66
34	Characterization of the seasonal cycle of south Asian aerosols: A regionalâ€scale modeling analysis. Journal of Geophysical Research, 2007, 112, .	3.3	89
35	Top-down estimate of mercury emissions in China using four-dimensional variational data assimilation. Atmospheric Environment, 2007, 41, 2804-2819.	1.9	36
36	Mineral dust is a sink for chlorine in the marine boundary layer. Atmospheric Environment, 2007, 41, 7166-7179.	1.9	113

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37	Chemical data assimilation of Transport and Chemical Evolution over the Pacific (TRACE-P) aircraft measurements. Journal of Geophysical Research, 2006, 111, .	3.3	55
38	Regional distribution and emissions of mercury in east Asia: A modeling analysis of Asian Pacific Regional Aerosol Characterization Experiment (ACE-Asia) observations. Journal of Geophysical Research, 2006, 111, .	3.3	30
39	Revisiting China's CO emissions after the Transport and Chemical Evolution over the Pacific (TRACE-P) mission: Synthesis of inventories, atmospheric modeling, and observations. Journal of Geophysical Research, 2006, 111, .	3.3	276
40	Adjoint Sensitivity Analysis of Ozone Nonattainment over the Continental United States. Environmental Science & Technology, 2006, 40, 3855-3864.	4.6	57
41	Impacts of different emission sources on air quality during March 2001 in the Pearl River Delta (PRD) region. Atmospheric Environment, 2005, 39, 5227-5241.	1.9	118
42	A MODELING STUDY ON REGIONAL AIR POLLUTIONS TRANSPORT PATTERNS OVER THE PEARL RIVER DELTA IN THE FALL SEASON. Modern Physics Letters B, 2005, 19, 1735-1738.	1.0	2
43	Impacts of Asian megacity emissions on regional air quality during spring 2001. Journal of Geophysical Research, 2005, 110, .	3.3	85
44	ACE-ASIA: Regional Climatic and Atmospheric Chemical Effects of Asian Dust and Pollution. Bulletin of the American Meteorological Society, 2004, 85, 367-380.	1.7	330
45	Spatial distribution and size evolution of particles in Asian outflow: Significance of primary and secondary aerosols during ACE-Asia and TRACE-P. Journal of Geophysical Research, 2004, 109, .	3.3	34
46	Impacts of dust on regional tropospheric chemistry during the ACE-Asia experiment: A model study with observations. Journal of Geophysical Research, 2004, 109, .	3.3	116
47	Characteristics of Asian aerosol transport simulated with a regional-scale chemical transport model during the ACE-Asia observation. Journal of Geophysical Research, 2004, 109, .	3.3	36
48	Three-dimensional simulations of inorganic aerosol distributions in east Asia during spring 2001. Journal of Geophysical Research, 2004, 109, .	3.3	80
49	Numerical study of Asian dust transport during the springtime of 2001 simulated with the Chemical Weather Forecasting System (CFORS) model. Journal of Geophysical Research, 2004, 109, .	3.3	80
50	Long-range transport of sulfur dioxide in the central Pacific. Journal of Geophysical Research, 2004, 109, .	3.3	60
51	Multiscale simulations of tropospheric chemistry in the eastern Pacific and on the U.S. West Coast during spring 2002. Journal of Geophysical Research, 2004, 109, .	3.3	30
52	Large-scale structure of trace gas and aerosol distributions over the western Pacific Ocean during the Transport and Chemical Evolution Over the Pacific (TRACE-P) experiment. Journal of Geophysical Research, 2003, 108, .	3.3	59
53	An intercomparison and evaluation of aircraft-derived and simulated CO from seven chemical transport models during the TRACE-P experiment. Journal of Geophysical Research, 2003, 108, .	3.3	78
54	Impacts of aerosols and clouds on photolysis frequencies and photochemistry during TRACE-P: 2. Three-dimensional study using a regional chemical transport model. Journal of Geophysical Research, 2003, 108, .	3.3	84

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55	Influences of biomass burning during the Transport and Chemical Evolution Over the Pacific (TRACE-P) experiment identified by the regional chemical transport model. Journal of Geophysical Research, 2003, 108, .	3.3	65
56	Contribution of biomass and biofuel emissions to trace gas distributions in Asia during the TRACE-P experiment. Journal of Geophysical Research, 2003, 108, .	3.3	68
57	Dynamics and transport of sulfur dioxide over the Yellow Sea during TRACE-P. Journal of Geophysical Research, 2003, 108, .	3.3	17
58	A model for the radiative forcing during ACE-Asia derived from CIRPAS Twin Otter and R/VRonald H. Browndata and comparison with observations. Journal of Geophysical Research, 2003, 108, .	3.3	78
59	A case study of nesting simulation for the Southern Oxidants Study 1999 at Nashville. Atmospheric Environment, 2002, 36, 1691-1705.	1.9	13
60	A communication library for the parallelization of air quality models on structured grids. Atmospheric Environment, 2002, 36, 3917-3930.	1.9	16