Daisuke Goto

List of Publications by Year
in descending order

55 papers	2,007 citations	236925 25 h-index	254184 43 g-index
74 all docs	74 docs citations	74 times ranked	2545 citing authors

#	Article	IF	Citations
1	The Non-hydrostatic Icosahedral Atmospheric Model: description and development. Progress in Earth and Planetary Science, 2014, 1, .	3.0	274
2	Overview of the Atmospheric Brown Cloud East Asian Regional Experiment 2005 and a study of the aerosol direct radiative forcing in east Asia. Journal of Geophysical Research, 2007, 112, .	3.3	263
3	Will a perfect model agree with perfect observations? The impact of spatial sampling. Atmospheric Chemistry and Physics, 2016, 16, 6335-6353.	4.9	108
4	Meteorological aspects associated with dust storms in the Sistan region, southeastern Iran. Climate Dynamics, 2015, 45, 407-424.	3.8	87
5	On the spatio-temporal representativeness of observations. Atmospheric Chemistry and Physics, 2017, 17, 9761-9780.	4.9	84
6	Aerosol effects on cloud water amounts were successfully simulated by a global cloud-system resolving model. Nature Communications, 2018, 9, 985.	12.8	73
7	The Caspian Sea–Hindu Kush Index (CasHKI): A regulatory factor for dust activity over southwest Asia. Global and Planetary Change, 2016, 137, 10-23.	3.5	63
8	Model depiction of the atmospheric flows of radioactive cesium emitted from the Fukushima Daiichi Nuclear Power Station accident. Progress in Earth and Planetary Science, 2017, 4, .	3.0	63
9	Influence of anomalous dry conditions on aerosols over India: Transport, distribution and properties. Journal of Geophysical Research, 2012, 117, .	3.3	59
10	Extremely high aerosol loading over Arabian Sea during June 2008: The specific role of the atmospheric dynamics and Sistan dust storms. Atmospheric Environment, 2014, 94, 374-384.	4.1	59
11	Synoptic weather conditions and aerosol episodes over Indo-Gangetic Plains, India. Climate Dynamics, 2014, 43, 2313-2331.	3.8	51
12	A study of uncertainties in the sulfate distribution and its radiative forcing associated with sulfur chemistry in a global aerosol model. Atmospheric Chemistry and Physics, 2011, 11, 10889-10910.	4.9	46
13	Global aerosol model-derived black carbon concentration and single scattering albedo over Indian region and its comparison with ground observations. Atmospheric Environment, 2011, 45, 3277-3285.	4.1	43
14	Improvement of aerosol optical properties modeling over Eastern Asia with MODIS AOD assimilation in a global non-hydrostatic icosahedral aerosol transport model. Environmental Pollution, 2014, 195, 319-329.	7.5	43
15	Estimation of excess mortality due to long-term exposure to PM2.5 in Japan using a high-resolution model for present and future scenarios. Atmospheric Environment, 2016, 140, 320-332.	4.1	38
16	Simulated aerosol key optical properties over global scale using an aerosol transport model coupled with a new type of dynamic core. Atmospheric Environment, 2014, 82, 71-82.	4.1	37
17	Model Intercomparison of Atmospheric [137]Cs From the Fukushima Daiichi Nuclear Power Plant Accident: Simulations Based on Identical Input Data. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,748.	3.3	37
18	Importance of global aerosol modeling including secondary organic aerosol formed from monoterpene. Journal of Geophysical Research, 2008, 113, .	3.3	36

#	ARTICLE	IF	CITATIONS
19	Hourly Aerosol Assimilation of Himawari€8 AOT Using the Four€Dimensional Local Ensemble Transform Kalman Filter. Journal of Advances in Modeling Earth Systems, 2019, 11, 680-711.	3.8	36
20	A Multimodel Study on Warm Precipitation Biases in Global Models Compared to Satellite Observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,806.	3.3	34
21	Application of a global nonhydrostatic model with a stretched-grid system to regional aerosol simulations around Japan. Geoscientific Model Development, 2015, 8, 235-259.	3.6	33
22	Assessment of changes in atmospheric dynamics and dust activity over southwest Asia using the Caspian Sea€"Hindu Kush Index. International Journal of Climatology, 2017, 37, 1013-1034.	3.5	33
23	Unrealistically pristine air in the Arctic produced by current global scale models. Scientific Reports, 2016, 6, 26561.	3.3	29
24	The Nonhydrostatic ICosahedral Atmospheric Model for CMIP6 HighResMIP simulations (NICAM16-S): experimental design, model description, and impacts of model updates. Geoscientific Model Development, 2021, 14, 795-820.	3.6	28
25	An evaluation of simulated particulate sulfate over East Asia through global model intercomparison. Journal of Geophysical Research D: Atmospheres, 2015, 120, 6247-6270.	3.3	26
26	Impacts of meteorological nudging on the global dust cycle simulated by NICAM coupled with an aerosol model. Atmospheric Environment, 2018, 190, 99-115.	4.1	26
27	Investigating the assimilation of CALIPSO global aerosol vertical observations using a four-dimensional ensemble Kalman filter. Atmospheric Chemistry and Physics, 2019, 19, 13445-13467.	4.9	25
28	Evaluation of summertime surface ozone in Kanto area of Japan using a semi-regional model and observation. Atmospheric Environment, 2017, 153, 163-181.	4.1	20
29	Sensitivity of aerosol to assumed optical properties over Asia using a global aerosol model and AERONET. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	17
30	Effects of data assimilation on the global aerosol key optical properties simulations. Atmospheric Research, 2016, 178-179, 175-186.	4.1	16
31	A model intercomparison of atmospheric 137Cs concentrations from the Fukushima Daiichi Nuclear Power Plant accident, phase III: Simulation with an identical source term and meteorological field at 1-km resolution. Atmospheric Environment: X, 2020, 7, 100086.	1.4	15
32	Revealing the sulfur dioxide emission reductions in China by assimilating surface observations in WRF-Chem. Atmospheric Chemistry and Physics, 2021, 21, 4357-4379.	4.9	15
33	Coupled modeling of in- and below-cloud wet deposition for atmospheric 137Cs transport following the Fukushima Daiichi accident using WRF-Chem: A self-consistent evaluation of 25 scheme combinations. Environment International, 2022, 158, 106882.	10.0	15
34	Simulation of aerosol optical properties over a tropical urban site in India using a global model and its comparison with ground measurements. Annales Geophysicae, 2011, 29, 955-963.	1.6	14
35	Aerosol model evaluation using two geostationary satellites over East Asia in May 2016. Atmospheric Research, 2019, 217, 93-113.	4.1	14
36	Modeling of black carbon in Asia using a global-to-regional seamless aerosol-transport model. Environmental Pollution, 2014, 195, 330-335.	7.5	13

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37	Impact of Lateral Boundary Errors on the Simulation of Clouds with a Nonhydrostatic Regional Climate Model. Monthly Weather Review, 2017, 145, 5059-5082.	1.4	11
38	A development of reduction scenarios of the short-lived climate pollutants (SLCPs) for mitigating global warming and environmental problems. Progress in Earth and Planetary Science, 2020, 7, .	3.0	11
39	Global aerosol simulations using NICAM.16 on a 14â€‰km grid spacing for a climate study: improved and remaining issues relative to a lower-resolution model. Geoscientific Model Development, 2020, 13, 3731-3768.	3.6	11
40	Influence of natural and anthropogenic emissions on aerosol optical properties over a tropical urban site â€" A study using sky radiometer and satellite data. Atmospheric Research, 2011, 100, 111-120.	4.1	10
41	Simulating Long Range Transport of Radioactive Aerosols Using a Global Aerosol Transport Model. Aerosol and Air Quality Research, 2017, 17, 2631-2642.	2.1	10
42	Evaluation of a relationship between aerosols and surface downward shortwave flux through an integrative analysis of modeling and observation. Atmospheric Environment, 2012, 49, 294-301.	4.1	7
43	Regional variability in the impacts of future land use on summertime temperatures in Kanto region, the Japanese megacity. Urban Forestry and Urban Greening, 2016, 20, 43-55.	5.3	7
44	Enhanced Simulation of an Asian Dust Storm by Assimilating GCOM-C Observations. Remote Sensing, 2021, 13, 3020.	4.0	7
45	Application of linear minimum variance estimation to the multi-model ensemble of atmospheric radioactive Cs-137 with observations. Atmospheric Chemistry and Physics, 2020, 20, 3589-3607.	4.9	6
46	Reassessment of early 131I inhalation doses by the Fukushima nuclear accident based on atmospheric 137Cs and 131I/137Cs observation data and multi-ensemble of atmospheric transport and deposition models. Journal of Environmental Radioactivity, 2020, 218, 106233.	1.7	6
47	Inverting the East Asian Dust Emission Fluxes Using the Ensemble Kalman Smoother and Himawari-8 AODs: A Case Study with WRF-Chem v3.5.1. Atmosphere, 2019, 10, 543.	2.3	5
48	Simulating and Evaluating Global Aerosol Distributions With the Online Aerosolâ€Coupled CASâ€FGOALS Model. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032097.	3.3	5
49	Multi-scale Simulations of Atmospheric Pollutants Using a Non-hydrostatic Icosahedral Atmospheric Model. Springer Remote Sensing/photogrammetry, 2018, , 277-302.	0.4	4
50	Climate Impact of Cloud Water Inhomogeneity through Microphysical Processes in a Global Climate Model. Journal of Climate, 2020, 33, 5195-5212.	3.2	4
51	Aerosol Effective Radiative Forcing in the Online Aerosol Coupled CAS-FGOALS-f3-L Climate Model. Atmosphere, 2020, 11, 1115.	2.3	3
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53	Uncertainty in Aerosol Rainout Processes through the Case of the Radioactive Materials Emitted by the Fukushima Dai-ichi Nuclear Power Plant in March 2011. Journal of the Meteorological Society of Japan, 2022, 100, 197-217.	1.8	3
54	Validation of high-resolution aerosol optical thickness simulated by a global non-hydrostatic model against remote sensing measurements. , 2017, , .		2

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55	Evaluation of a relationship between aerosols and surface downward shortwave flux through an integrative analysis of a global aerosol-transport model and in-situ measurements. , 2013, , .		0