

# Daisuke Goto

## List of Publications by Year in descending order

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55  
papers

2,007  
citations

236833

25  
h-index

254106

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, .	1.1	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.	1.9	108
4	Meteorological aspects associated with dust storms in the Sistan region, southeastern Iran. Climate Dynamics, 2015, 45, 407-424.	1.7	87
5	On the spatio-temporal representativeness of observations. Atmospheric Chemistry and Physics, 2017, 17, 9761-9780.	1.9	84
6	Aerosol effects on cloud water amounts were successfully simulated by a global cloud-system resolving model. Nature Communications, 2018, 9, 985.	5.8	73
7	The Caspian Seaâ€“Hindu Kush Index (CasHKI): A regulatory factor for dust activity over southwest Asia. Global and Planetary Change, 2016, 137, 10-23.	1.6	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, .	1.1	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.	1.9	59
11	Synoptic weather conditions and aerosol episodes over Indo-Gangetic Plains, India. Climate Dynamics, 2014, 43, 2313-2331.	1.7	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.	1.9	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.	1.9	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.	3.7	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.	1.9	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.	1.9	37
17	Model Intercomparison of Atmospheric <sup>137</sup> 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.	1.2	37
18	Importance of global aerosol modeling including secondary organic aerosol formed from monoterpene. Journal of Geophysical Research, 2008, 113, .	3.3	36

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19	Hourly Aerosol Assimilation of Himawari's AOT Using the Four-Dimensional Local Ensemble Transform Kalman Filter. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 680-711.	1.3	36
20	A Multimodel Study on Warm Precipitation Biases in Global Models Compared to Satellite Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,806.	1.2	34
21	Application of a global nonhydrostatic model with a stretched-grid system to regional aerosol simulations around Japan. <i>Geoscientific Model Development</i> , 2015, 8, 235-259.	1.3	33
22	Assessment of changes in atmospheric dynamics and dust activity over southwest Asia using the Caspian Sea's Hindu Kush Index. <i>International Journal of Climatology</i> , 2017, 37, 1013-1034.	1.5	33
23	Unrealistically pristine air in the Arctic produced by current global scale models. <i>Scientific Reports</i> , 2016, 6, 26561.	1.6	29
24	The Nonhydrostatic ICosahedral Atmospheric Model for CMIP6 HighResMIP simulations (NICAM16-S): experimental design, model description, and impacts of model updates. <i>Geoscientific Model Development</i> , 2021, 14, 795-820.	1.3	28
25	An evaluation of simulated particulate sulfate over East Asia through global model intercomparison. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6247-6270.	1.2	26
26	Impacts of meteorological nudging on the global dust cycle simulated by NICAM coupled with an aerosol model. <i>Atmospheric Environment</i> , 2018, 190, 99-115.	1.9	26
27	Investigating the assimilation of CALIPSO global aerosol vertical observations using a four-dimensional ensemble Kalman filter. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13445-13467.	1.9	25
28	Evaluation of summertime surface ozone in Kanto area of Japan using a semi-regional model and observation. <i>Atmospheric Environment</i> , 2017, 153, 163-181.	1.9	20
29	Sensitivity of aerosol to assumed optical properties over Asia using a global aerosol model and AERONET. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	17
30	Effects of data assimilation on the global aerosol key optical properties simulations. <i>Atmospheric Research</i> , 2016, 178-179, 175-186.	1.8	16
31	A model intercomparison of atmospheric <sup>137</sup> Cs concentrations from the Fukushima Daiichi Nuclear Power Plant accident, phase III: Simulation with an identical source term and meteorological field at 1-km resolution. <i>Atmospheric Environment: X</i> , 2020, 7, 100086.	0.8	15
32	Revealing the sulfur dioxide emission reductions in China by assimilating surface observations in WRF-Chem. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4357-4379.	1.9	15
33	Coupled modeling of in- and below-cloud wet deposition for atmospheric <sup>137</sup> Cs transport following the Fukushima Daiichi accident using WRF-Chem: A self-consistent evaluation of 25 scheme combinations. <i>Environment International</i> , 2022, 158, 106882.	4.8	15
34	Simulation of aerosol optical properties over a tropical urban site in India using a global model and its comparison with ground measurements. <i>Annales Geophysicae</i> , 2011, 29, 955-963.	0.6	14
35	Aerosol model evaluation using two geostationary satellites over East Asia in May 2016. <i>Atmospheric Research</i> , 2019, 217, 93-113.	1.8	14
36	Modeling of black carbon in Asia using a global-to-regional seamless aerosol-transport model. <i>Environmental Pollution</i> , 2014, 195, 330-335.	3.7	13

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37	Impact of Lateral Boundary Errors on the Simulation of Clouds with a Nonhydrostatic Regional Climate Model. <i>Monthly Weather Review</i> , 2017, 145, 5059-5082.	0.5	11
38	A development of reduction scenarios of the short-lived climate pollutants (SLCPs) for mitigating global warming and environmental problems. <i>Progress in Earth and Planetary Science</i> , 2020, 7, .	1.1	11
39	Global aerosol simulations using NICAM.16 on a 14km grid spacing for a climate study: improved and remaining issues relative to a lower-resolution model. <i>Geoscientific Model Development</i> , 2020, 13, 3731-3768.	1.3	11
40	Influence of natural and anthropogenic emissions on aerosol optical properties over a tropical urban site – A study using sky radiometer and satellite data. <i>Atmospheric Research</i> , 2011, 100, 111-120.	1.8	10
41	Simulating Long Range Transport of Radioactive Aerosols Using a Global Aerosol Transport Model. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2631-2642.	0.9	10
42	Evaluation of a relationship between aerosols and surface downward shortwave flux through an integrative analysis of modeling and observation. <i>Atmospheric Environment</i> , 2012, 49, 294-301.	1.9	7
43	Regional variability in the impacts of future land use on summertime temperatures in Kanto region, the Japanese megacity. <i>Urban Forestry and Urban Greening</i> , 2016, 20, 43-55.	2.3	7
44	Enhanced Simulation of an Asian Dust Storm by Assimilating GCOM-C Observations. <i>Remote Sensing</i> , 2021, 13, 3020.	1.8	7
45	Application of linear minimum variance estimation to the multi-model ensemble of atmospheric radioactive Cs-137 with observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3589-3607.	1.9	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. <i>Journal of Environmental Radioactivity</i> , 2020, 218, 106233.	0.9	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. <i>Atmosphere</i> , 2019, 10, 543.	1.0	5
48	Simulating and Evaluating Global Aerosol Distributions With the Online Aerosol-Coupled CAS-FOGOALS Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032097.	1.2	5
49	Multi-scale Simulations of Atmospheric Pollutants Using a Non-hydrostatic Icosahedral Atmospheric Model. <i>Springer Remote Sensing/photogrammetry</i> , 2018, , 277-302.	0.4	4
50	Climate Impact of Cloud Water Inhomogeneity through Microphysical Processes in a Global Climate Model. <i>Journal of Climate</i> , 2020, 33, 5195-5212.	1.2	4
51	Aerosol Effective Radiative Forcing in the Online Aerosol Coupled CAS-FOGOALS-f3-L Climate Model. <i>Atmosphere</i> , 2020, 11, 1115.	1.0	3
52			
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. <i>Journal of the Meteorological Society of Japan</i> , 2022, 100, 197-217.	0.7	3
54	Validation of high-resolution aerosol optical thickness simulated by a global non-hydrostatic model against remote sensing measurements. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
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