Kengo Sudo

List of Publications by Year
in descending order

74 papers	8,577 citations	87843 38 h-index	79644 73 g-index
136 all docs	136 docs citations	136 times ranked	10123 citing authors

#	Article	IF	Citations
1	Three decades of global methane sources and sinks. Nature Geoscience, 2013, 6, 813-823.	5.4	1,649
2	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 2063-2090.	1.9	570
3	Description and basic evaluation of simulated mean state, internal variability, and climate sensitivity in MIROC6. Geoscientific Model Development, 2019, 12, 2727-2765.	1.3	439
4	Global air quality and climate. Chemical Society Reviews, 2012, 41, 6663.	18.7	428
5	Radiative forcing in the ACCMIP historical and future climate simulations. Atmospheric Chemistry and Physics, 2013, 13, 2939-2974.	1.9	395
6	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics. Geoscientific Model Development, 2013, 6, 179-206.	1.3	388
7	Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. Environmental Research Letters, 2013, 8, 034005.	2.2	381
8	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 3063-3085.	1.9	361
9	Preindustrial to present-day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 5277-5298.	1.9	288
10	Review of the global models used within phase 1 of the Chemistryâ€“Climate Model Initiative (CCMI). Geoscientific Model Development, 2017, 10, 639-671.	1.3	277
11	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. Atmospheric Chemistry and Physics, 2013, 13, 2563-2587.	1.9	257
12	Decadal changes in global surface NO_{<i>x</i>} emissions from multi-constituent satellite data assimilation. Atmospheric Chemistry and Physics, 2017, 17, 807-837.	1.9	228
13	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
14	CHASER: A global chemical model of the troposphere 1. Model description. Journal of Geophysical Research, 2002, 107, ACH 7-1-ACH 7-20.	3.3	207
15	Future global mortality from changes in air pollution attributable to climate change. Nature Climate Change, 2017, 7, 647-651.	8.1	177
16	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. Atmospheric Chemistry and Physics, 2018, 18, 8409-8438.	1.9	128
17	Evaluation of preindustrial to present-day black carbon and its albedo forcing from Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 2607-2634.	1.9	125
18	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble. Atmospheric Chemistry and Physics, 2016, 16, 9847-9862.	1.9	101

#	Article	IF	Citations
19	Investigation of global particulate nitrate from the AeroCom phaseÂIII experiment. Atmospheric Chemistry and Physics, 2017, 17, 12911-12940.	1.9	99
20	Future changes in tropospheric ozone under Representative Concentration Pathways (RCPs). Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	85
21	Long-term MAX-DOAS network observations of NO₂ in Russia and Asia (MADRAS) during the period 2007â€“2012: instrumentation, elucidation of climatology, and comparisons with OMI satellite observations and global model simulations. Atmospheric Chemistry and Physics, 2014, 14, 7909-7927.	1.9	85
22	Global lightning NO_x production estimated by an assimilation of multiple satellite data sets. Atmospheric Chemistry and Physics, 2014, 14, 3277-3305.	1.9	84
23	Future changes in stratosphere-troposphere exchange and their impacts on future tropospheric ozone simulations. Geophysical Research Letters, 2003, 30, .	1.5	73
24	Global tropospheric ozone responses to reduced NO _{<i>x</i>} emissions linked to the COVID-19 worldwide lockdowns. Science Advances, 2021, 7, .	4.7	72
25	A tropospheric chemistry reanalysis for the years 2005â€“2012 based on an assimilation of OMI, MLS, TES, and MOPITT satellite data. Atmospheric Chemistry and Physics, 2015, 15, 8315-8348.	1.9	70
26	CHASER: A global chemical model of the troposphere 2. Model results and evaluation. Journal of Geophysical Research, 2002, 107, ACH 9-1-ACH 9-39.	3.3	69
27	Why does surface ozone peak in summertime at Waliguan?. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	69
28	Simulation of tropospheric ozone changes during 1997-1998 El NiÃ±o: Meteorological impact on tropospheric photochemistry. Geophysical Research Letters, 2001, 28, 4091-4094.	1.5	62
29	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. Atmospheric Chemistry and Physics, 2013, 13, 4057-4072.	1.9	61
30	Ozone sensitivity to varying greenhouse gases and ozone-depleting substances in CCMI-1 simulations. Atmospheric Chemistry and Physics, 2018, 18, 1091-1114.	1.9	56
31	HTAP2 multi-model estimates of premature human mortality due to intercontinental transport of air pollution and emission sectors. Atmospheric Chemistry and Physics, 2018, 18, 10497-10520.	1.9	54
32	Updated tropospheric chemistry reanalysis and emission estimates, TCR-2, for 2005â€“2018. Earth System Science Data, 2020, 12, 2223-2259.	3.7	54
33	Impact of intercontinental pollution transport on North American ozone air pollution: an HTAP phase 2 multi-model study. Atmospheric Chemistry and Physics, 2017, 17, 5721-5750.	1.9	51
34	Use of North American and European air quality networks to evaluate global chemistryâ€“climate modeling of surface ozone. Atmospheric Chemistry and Physics, 2015, 15, 10581-10596.	1.9	50
35	Multi-model study of HTAPÂII on sulfur and nitrogen deposition. Atmospheric Chemistry and Physics, 2018, 18, 6847-6866.	1.9	49
36	Mapping Yearly Fine Resolution Global Surface Ozone through the Bayesian Maximum Entropy Data Fusion of Observations and Model Output for 1990â€“2017. Environmental Science & Technology, 2021, 55, 4389-4398.	4.6	47

#	Article	IF	Citations
37	Long-term change in the source contribution to surface ozone over Japan. Atmospheric Chemistry and Physics, 2017, 17, 8231-8246.	1.9	44
38	Global and regional radiative forcing from 20â€¯% reductions in BC, OC and SO₄ â€“ an HTAP2 multi-model study. Atmospheric Chemistry and Physics, 2016, 16, 13579-13599.	1.9	42
39	Evaluation and uncertainty investigation of the NO₂, CO and NH₃ modeling over China under the framework of MICS-AsiaÂIII. Atmospheric Chemistry and Physics, 2020, 20, 181-202.	1.9	41
40	Evaluation of a multi-model, multi-constituent assimilation framework for tropospheric chemical reanalysis. Atmospheric Chemistry and Physics, 2020, 20, 931-967.	1.9	40
41	Development of human health damage factors for PM2.5 based on a global chemical transport model. International Journal of Life Cycle Assessment, 2018, 23, 2300-2310.	2.2	37
42	The effects of intercontinental emission sources on European air pollution levels. Atmospheric Chemistry and Physics, 2018, 18, 13655-13672.	1.9	34
43	Temporal and spatial variations of carbon monoxide over the western part of the Pacific Ocean. Journal of Geophysical Research, 2009, 114, .	3.3	33
44	Formaldehyde in the Tropical Western Pacific: Chemical Sources and Sinks, Convective Transport, and Representation in CAMâ€Chem and the CCMI Models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11201-11226.	1.2	32
45	SLCP co-control approach in East Asia: Tropospheric ozone reduction strategy by simultaneous reduction of NO x /NMVOC and methane. Atmospheric Environment, 2015, 122, 588-595.	1.9	29
46	Global high-resolution simulations of tropospheric nitrogen dioxide using CHASER V4.0. Geoscientific Model Development, 2018, 11, 959-988.	1.3	23
47	Evaluation of tropospheric ozone and ozone precursors in simulations from the HTAPII and CCMI model intercomparisons â€“ a focus on the Indian subcontinent. Atmospheric Chemistry and Physics, 2019, 19, 6437-6458.	1.9	23
48	A new method (M³Fusion v1) for combining observations and multiple model output for an improved estimate of the global surface ozone distribution. Geoscientific Model Development, 2019, 12, 955-978.	1.3	23
49	Clear-sky ultraviolet radiation modelling using output from the Chemistry Climate Model Initiative. Atmospheric Chemistry and Physics, 2019, 19, 10087-10110.	1.9	22
50	Contributions of World Regions to the Global Tropospheric Ozone Burden Change From 1980 to 2010. Geophysical Research Letters, 2021, 48, .	1.5	22
51	Evaluation of summertime surface ozone in Kanto area of Japan using a semi-regional model and observation. Atmospheric Environment, 2017, 153, 163-181.	1.9	20
52	Role of meteorological variability in global tropospheric ozone during 1970â€“2008. Journal of Geophysical Research, 2012, 117, .	3.3	19
53	Simulation of urban and regional air pollution in Bangladesh. Journal of Geophysical Research, 2012, 117, .	3.3	19
54	Ozone and carbon monoxide observations over open oceans on R/VÂ<i>Mirai</i> from 67Â°â€‰S to 75Â°â€‰N during 2012 to 2017: testing global chemical reanalysis in terms of Arctic processes, low ozone levels at low latitudes, and pollution transport. Atmospheric Chemistry and Physics, 2019, 19, 7233-7254.	1.9	19

#	Article	IF	Citations
55	Estimation of the contribution of intercontinental transport during the PEACE campaign by using a global model. Journal of Geophysical Research, 2005, 110, .	3.3	18
56	Seasonal features and origins of carbonaceous aerosols at Syowa Station, coastal Antarctica. Atmospheric Chemistry and Physics, 2019, 19, 7817-7837.	1.9	18
57	Global modeling analysis of tropospheric ozone and its radiative forcing from biomass burning emissions in the twentieth century. Journal of Geophysical Research, 2007, 112, .	3.3	16
58	Projecting ozone hole recovery using an ensemble of chemistryâ€“climate models weighted by model performance and independence. Atmospheric Chemistry and Physics, 2020, 20, 9961-9977.	1.9	16
59	Model Inter-Comparison for PM2.5 Components over urban Areas in Japan in the J-STREAM Framework. Atmosphere, 2020, 11, 222.	1.0	14
60	Long-range transport impacts on surface aerosol concentrations and the contributions to haze events in China: an HTAP2 multi-model study. Atmospheric Chemistry and Physics, 2018, 18, 15581-15600.	1.9	12
61	Extremal dependence between temperature and ozone over the continental US. Atmospheric Chemistry and Physics, 2018, 18, 11927-11948.	1.9	12
62	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, .	1.1	11
63	A comparison of the impact of TROPOMI and OMI tropospheric NO₂ on global chemical data assimilation. Atmospheric Measurement Techniques, 2022, 15, 1703-1728.	1.2	11
64	Development of human health damage factors for tropospheric ozone considering transboundary transport on a global scale. International Journal of Life Cycle Assessment, 2018, 23, 2339-2348.	2.2	10
65	Two-scale multi-model ensemble: is a hybrid ensemble of opportunity telling us more?. Atmospheric Chemistry and Physics, 2018, 18, 8727-8744.	1.9	10
66	Enhanced Mid-Latitude Tropospheric Column Ozone over East Asia: Coupled Effects of Stratospheric Ozone Intrusion and Anthropogenic Sources. Journal of the Meteorological Society of Japan, 2012, 90, 207-222.	0.7	9
67	Continuous multi-component MAX-DOAS observations for the planetary boundary layer ozone variation analysis at Chiba and Tsukuba, Japan, from 2013 to 2019. Progress in Earth and Planetary Science, 2021, 8, .	1.1	8
68	Responses of Arctic black carbon and surface temperature to multi-region emission reductions: a Hemispheric Transport of Air Pollution Phase 2 (HTAP2) ensemble modeling study. Atmospheric Chemistry and Physics, 2021, 21, 8637-8654.	1.9	8
69	Impacts of Horizontal Resolution on Global Data Assimilation of Satellite Measurements for Tropospheric Chemistry Analysis. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002180.	1.3	7
70	Global Bromine- and Iodine-Mediated Tropospheric Ozone Loss Estimated Using the CHASER Chemical Transport Model. Scientific Online Letters on the Atmosphere, 2020, 16, 220-227.	0.6	6
71	Ultraviolet Radiation modelling using output from the Chemistry Climate Model Initiative. , 2019, 19, 10087-10110.		5
72	Effect of global atmospheric aerosol emission change on PM_{2.5}-related health impacts. Global Health Action, 2019, 12, 1664130.	0.7	5

#	Article	IF	Citations
73	Effects of heterogeneous reactions on tropospheric chemistry: a global simulation with the chemistryâ€“climate model CHASER V4.0. Geoscientific Model Development, 2021, 14, 3813-3841.	1.3	5
74	Quasi-Biennial Oscillations in Atmospheric Ozone from the Chemistry-Climate Model and Ozone Reanalysis. American Journal of Climate Change, 2019, 08, 110-136.	0.5	0