# Toshihiko Takemura

List of Publications by Year
in descending order

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|---|---|---|---|
| 212 papers | 23,387 citations | 13099 68 h-index | 10158 140 g-index |
| 310 all docs | 310 docs citations | 310 times ranked | 15619 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Analysis and quantification of the diversities of aerosol life cycles within AeroCom. Atmospheric Chemistry and Physics, 2006, 6, 1777-1813. | 4.9 | 1,202 |
| 2 | Improved Climate Simulation by MIROC5: Mean States, Variability, and Climate Sensitivity. Journal of Climate, 2010, 23, 6312-6335. | 3.2 | 1,103 |
| 3 | MIROC-ESM 2010: model description and basic results of CMIP5-20c3m experiments. Geoscientific Model Development, 2011, 4, 845-872. | 3.6 | 1,070 |
| 4 | Global dust model intercomparison in AeroCom phase I. Atmospheric Chemistry and Physics, 2011, 11, 7781-7816. | 4.9 | 839 |
| 5 | Radiative forcing of the direct aerosol effect from AeroCom Phase II simulations. Atmospheric Chemistry and Physics, 2013, 13, 1853-1877. | 4.9 | 779 |
| 6 | A review of measurement-based assessments of the aerosol direct radiative effect and forcing. Atmospheric Chemistry and Physics, 2006, 6, 613-666. | 4.9 | 745 |
| 7 | An AeroCom initial assessment â€“ optical properties in aerosol component modules of global models. Atmospheric Chemistry and Physics, 2006, 6, 1815-1834. | 4.9 | 697 |
| 8 | Asian dust transported one full circuit around theÂglobe. Nature Geoscience, 2009, 2, 557-560. | 12.9 | 689 |
| 9 | Radiative forcing by aerosols as derived from the AeroCom present-day and pre-industrial simulations. Atmospheric Chemistry and Physics, 2006, 6, 5225-5246. | 4.9 | 633 |
| 10 | Aerosol and monsoon climate interactions over Asia. Reviews of Geophysics, 2016, 54, 866-929. | 23.0 | 591 |
| 11 | Evaluation of black carbon estimations in global aerosol models. Atmospheric Chemistry and Physics, 2009, 9, 9001-9026. | 4.9 | 585 |
| 12 | Simulation of climate response to aerosol direct and indirect effects with aerosol transport-radiation model. Journal of Geophysical Research, 2005, 110, . | 3.3 | 491 |
| 13 | Single-Scattering Albedo and Radiative Forcing of Various Aerosol Species with a Global Three-Dimensional Model. Journal of Climate, 2002, 15, 333-352. | 3.2 | 448 |
| 14 | Description and basic evaluation of simulated mean state, internal variability, and climate sensitivity in MIROC6. Geoscientific Model Development, 2019, 12, 2727-2765. | 3.6 | 439 |
| 15 | Global air quality and climate. Chemical Society Reviews, 2012, 41, 6663. | 38.1 | 428 |
| 16 | A multi-model assessment of pollution transport to the Arctic. Atmospheric Chemistry and Physics, 2008, 8, 5353-5372. | 4.9 | 419 |
| 17 | Aerosol indirect effects â€“ general circulation model intercomparison and evaluation with satellite data. Atmospheric Chemistry and Physics, 2009, 9, 8697-8717. | 4.9 | 418 |
| 18 | Radiative forcing in the ACCMIP historical and future climate simulations. Atmospheric Chemistry and Physics, 2013, 13, 2939-2974. | 4.9 | 395 |

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| 19 | Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. Environmental Research Letters, 2013, 8, 034005. | 5.2 | 381 |
| 20 | Global three-dimensional simulation of aerosol optical thickness distribution of various origins. Journal of Geophysical Research, 2000, 105, 17853-17873. | 3.3 | 379 |
| 21 | The AeroCom evaluation and intercomparison of organic aerosol in global models. Atmospheric Chemistry and Physics, 2014, 14, 10845-10895. | 4.9 | 363 |
| 22 | 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 |
| 23 | Monthly averages of aerosol properties: A global comparison among models, satellite data, and AERONET ground data. Journal of Geophysical Research, 2003, 108, . | 3.3 | 258 |
| 24 | Aerosol anthropogenic component estimated from satellite data. Geophysical Research Letters, 2005, 32, . | 4.0 | 257 |
| 25 | A simulation of the global distribution and radiative forcing of soil dust aerosols at the Last Glacial Maximum. Atmospheric Chemistry and Physics, 2009, 9, 3061-3073. | 4.9 | 230 |
| 26 | The effect of harmonized emissions on aerosol properties in global models â€“ an AeroCom experiment. Atmospheric Chemistry and Physics, 2007, 7, 4489-4501. | 4.9 | 228 |
| 27 | Black carbon vertical profiles strongly affect its radiative forcing uncertainty. Atmospheric Chemistry and Physics, 2013, 13, 2423-2434. | 4.9 | 223 |
| 28 | Model intercomparison of indirect aerosol effects. Atmospheric Chemistry and Physics, 2006, 6, 3391-3405. | 4.9 | 205 |
| 29 | Fast and slow precipitation responses to individual climate forcers: A PDRMIP multimodel study. Geophysical Research Letters, 2016, 43, 2782-2791. | 4.0 | 179 |
| 30 | Aerosol optical properties over east Asia determined from ground-based sky radiation measurements. Journal of Geophysical Research, 2004, 109, . | 3.3 | 178 |
| 31 | Future global mortality from changes in air pollution attributable to climate change. Nature Climate Change, 2017, 7, 647-651. | 18.8 | 177 |
| 32 | Application of the CALIOP layer product to evaluate the vertical distribution of aerosols estimated by global models: AeroCom phase I results. Journal of Geophysical Research, 2012, 117, . | 3.3 | 170 |
| 33 | Global and regional trends of atmospheric sulfur. Scientific Reports, 2019, 9, 953. | 3.3 | 166 |
| 34 | Modelled black carbon radiative forcing and atmospheric lifetime in AeroCom Phase II constrained by aircraft observations. Atmospheric Chemistry and Physics, 2014, 14, 12465-12477. | 4.9 | 157 |
| 35 | Significance of direct and indirect radiative forcings of aerosols in the East China Sea region. Journal of Geophysical Research, 2003, 108, . | 3.3 | 148 |
| 36 | Host model uncertainties in aerosol radiative forcing estimates: results from the AeroCom Prescribed intercomparison study. Atmospheric Chemistry and Physics, 2013, 13, 3245-3270. | 4.9 | 143 |

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| 37 | An â€œA-Trainâ€•Strategy for Quantifying Direct Climate Forcing by Anthropogenic Aerosols. Bulletin of the American Meteorological Society, 2005, 86, 1795-1810. | 3.3 | 138 |
| 38 | Intercomparison of the cloud water phase among global climate models. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3372-3400. | 3.3 | 126 |
| 39 | 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. | 4.9 | 125 |
| 40 | Challenges in constraining anthropogenic aerosol effects on cloud radiative forcing using present-day spatiotemporal variability. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5804-5811. | 7.1 | 120 |
| 41 | Rapid Adjustments Cause Weak Surface Temperature Response to Increased Black Carbon Concentrations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11462-11481. | 3.3 | 118 |
| 42 | PDRMIP: A Precipitation Driver and Response Model Intercomparison Projectâ€”Protocol and Preliminary Results. Bulletin of the American Meteorological Society, 2017, 98, 1185-1198. | 3.3 | 116 |
| 43 | A multi-model evaluation of aerosols over South Asia: common problems and possible causes. Atmospheric Chemistry and Physics, 2015, 15, 5903-5928. | 4.9 | 113 |
| 44 | Understanding Rapid Adjustments to Diverse Forcing Agents. Geophysical Research Letters, 2018, 45, 12023-12031. | 4.0 | 113 |
| 45 | Trans-pacific dust transport: integrated analysis of NASA/CALIPSO and a global aerosol transport model. Atmospheric Chemistry and Physics, 2009, 9, 3137-3145. | 4.9 | 112 |
| 46 | Seasonal variation of levoglucosan in aerosols over the western North Pacific and its assessment as a biomass-burning tracer. Atmospheric Environment, 2010, 44, 3511-3518. | 4.1 | 112 |
| 47 | Applying an ensemble Kalman filter to the assimilation of AERONET observations in a global aerosol transport model. Atmospheric Chemistry and Physics, 2010, 10, 2561-2576. | 4.9 | 111 |
| 48 | New estimation of N<sub>2</sub> fixation in the western and central Pacific Ocean and its marginal seas. Global Biogeochemical Cycles, 2010, 24, . | 4.9 | 110 |
| 49 | Modeling study of long-range transport of Asian dust and anthropogenic aerosols from East Asia. Geophysical Research Letters, 2002, 29, 11-1-11-4. | 4.0 | 109 |
| 50 | Historical and future changes in air pollutants from CMIP6 models. Atmospheric Chemistry and Physics, 2020, 20, 14547-14579. | 4.9 | 105 |
| 51 | Aerosol optical depth, physical properties and radiative forcing over the Arabian Sea. Meteorology and Atmospheric Physics, 2006, 91, 45-62. | 2.0 | 103 |
| 52 | 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. | 4.9 | 101 |
| 53 | Consistency of the aerosol type classification from satellite remote sensing during the Atmospheric Brown Cloudâ€“East Asia Regional Experiment campaign. Journal of Geophysical Research, 2007, 112, . | 3.3 | 97 |
| 54 | AeroCom phase III multi-model evaluation of the aerosol life cycle and optical properties using ground- and space-based remote sensing as well as surface in situ observations. Atmospheric Chemistry and Physics, 2021, 21, 87-128. | 4.9 | 96 |

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| 55 | Macroâ€scale exhaustion of surface phosphate by dinitrogen fixation in the western North Pacific. Geophysical Research Letters, 2009, 36, . | 4.0 | 95 |
| 56 | An elevated large-scale dust veil from the Taklimakan Desert: Intercontinental transport and three-dimensional structure as captured by CALIPSO and regional and global models. Atmospheric Chemistry and Physics, 2009, 9, 8545-8558. | 4.9 | 95 |
| 57 | A Numerical Simulation of Global Transport of Atmospheric Particles Emitted from the Fukushima Daiichi Nuclear Power Plant. Scientific Online Letters on the Atmosphere, 2011, 7, 101-104. | 1.4 | 92 |
| 58 | Sources, sinks, and transatlantic transport of North African dust aerosol: A multimodel analysis and comparison with remote sensing data. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6259-6277. | 3.3 | 88 |
| 59 | Multi-model simulations of aerosol and ozone radiative forcing due to anthropogenic emission changes during the periodÂ1990â€“2015. Atmospheric Chemistry and Physics, 2017, 17, 2709-2720. | 4.9 | 87 |
| 60 | An AeroCom assessment of black carbon in Arctic snow and sea ice. Atmospheric Chemistry and Physics, 2014, 14, 2399-2417. | 4.9 | 86 |
| 61 | A PDRMIP Multimodel Study on the Impacts of Regional Aerosol Forcings on Global and Regional Precipitation. Journal of Climate, 2018, 31, 4429-4447. | 3.2 | 83 |
| 62 | What controls the vertical distribution of aerosol? Relationships between process sensitivity in HadGEM3â€“UKCA and inter-model variation from AeroCom Phase II. Atmospheric Chemistry and Physics, 2016, 16, 2221-2241. | 4.9 | 82 |
| 63 | 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 |
| 64 | Global observations of aerosol impacts on precipitation occurrence in warm maritime clouds. Journal of Geophysical Research, 2009, 114, . | 3.3 | 80 |
| 65 | Evaluation of the aerosol vertical distribution in global aerosol models through comparison against CALIOP measurements: AeroCom phase II results. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7254-7283. | 3.3 | 80 |
| 66 | Spatial scales of climate response to inhomogeneous radiative forcing. Journal of Geophysical Research, 2010, 115, . | 3.3 | 79 |
| 67 | Constraining the instantaneous aerosol influence on cloud albedo. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4899-4904. | 7.1 | 77 |
| 68 | Aerosol effects on cloud water amounts were successfully simulated by a global cloud-system resolving model. Nature Communications, 2018, 9, 985. | 12.8 | 73 |
| 69 | Estimated range of black carbon dry deposition and the related snow albedo reduction over Himalayan glaciers during dry pre-monsoon periods. Atmospheric Environment, 2013, 78, 259-267. | 4.1 | 70 |
| 70 | The role of mineral-dust aerosols in polar temperature amplification. Nature Climate Change, 2013, 3, 487-491. | 18.8 | 70 |
| 71 | On the characteristics of aerosol indirect effect based on dynamic regimes in global climate models. Atmospheric Chemistry and Physics, 2016, 16, 2765-2783. | 4.9 | 67 |
| 72 | The source of discrepancies in aerosolâ€“cloudâ€“precipitation interactions between GCM and A-Train retrievals. Atmospheric Chemistry and Physics, 2016, 16, 15413-15424. | 4.9 | 66 |

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| 73 | Large Asian dust layers continuously reached North America in April 2010. Atmospheric Chemistry and Physics, 2011, 11, 7333-7341. | 4.9 | 65 |
| 74 | Effective radiative forcing from emissions of reactive gases and aerosols â€“ a multi-model comparison. Atmospheric Chemistry and Physics, 2021, 21, 853-874. | 4.9 | 65 |
| 75 | Impacts of intercontinental transport of anthropogenic fine particulate matter on human mortality. Air Quality, Atmosphere and Health, 2014, 7, 369-379. | 3.3 | 64 |
| 76 | The Caspian Seaâ€“Hindu Kush Index (CasHKI): A regulatory factor for dust activity over southwest Asia. Global and Planetary Change, 2016, 137, 10-23. | 3.5 | 63 |
| 77 | 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 |
| 78 | Drivers of Precipitation Change: An Energetic Understanding. Journal of Climate, 2018, 31, 9641-9657. | 3.2 | 63 |
| 79 | Aerosol distributions and radiative forcing over the Asian Pacific region simulated by Spectral Radiation-Transport Model for Aerosol Species (SPRINTARS). Journal of Geophysical Research, 2003, 108, . | 3.3 | 59 |
| 80 | Influence of anomalous dry conditions on aerosols over India: Transport, distribution and properties. Journal of Geophysical Research, 2012, 117, . | 3.3 | 59 |
| 81 | Global cloudâ€systemâ€resolving simulation of aerosol effect on warm clouds. Geophysical Research Letters, 2008, 35, . | 4.0 | 58 |
| 82 | Future projections of surface UV-B in a changing climate. Journal of Geophysical Research, 2011, 116, . | 3.3 | 58 |
| 83 | Soot microphysical effects on liquid clouds, a multi-model investigation. Atmospheric Chemistry and Physics, 2011, 11, 1051-1064. | 4.9 | 58 |
| 84 | Aerosol singleâ€scattering albedo over the global oceans: Comparing PARASOL retrievals with AERONET, OMI, and AeroCom models estimates. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9814-9836. | 3.3 | 58 |
| 85 | Aerosols at the poles: an AeroCom Phase II multi-model evaluation. Atmospheric Chemistry and Physics, 2017, 17, 12197-12218. | 4.9 | 58 |
| 86 | Analysis of surface black carbon distributions during ACE-Asia using a regional-scale aerosol model. Journal of Geophysical Research, 2003, 108, . | 3.3 | 57 |
| 87 | Tropospheric aerosol impacts on trace gas budgets through photolysis. Journal of Geophysical Research, 2003, 108, . | 3.3 | 55 |
| 88 | Efficacy of Climate Forcings in PDRMIP Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12824-12844. | 3.3 | 55 |
| 89 | 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. | 4.9 | 54 |
| 90 | Synoptic weather conditions and aerosol episodes over Indo-Gangetic Plains, India. Climate Dynamics, 2014, 43, 2313-2331. | 3.8 | 51 |

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| 91 | A multimodel assessment of the influence of regional anthropogenic emission reductions on aerosol direct radiative forcing and the role of intercontinental transport. Journal of Geophysical Research D: Atmospheres, 2013, 118, 700-720. | 3.3 | 49 |
| 92 | Multi-model study of HTAPÂII on sulfur and nitrogen deposition. Atmospheric Chemistry and Physics, 2018, 18, 6847-6866. | 4.9 | 49 |
| 93 | A Study of the Aerosol Effect on a Cloud Field with Simultaneous Use of GCM Modeling and Satellite Observation. Journals of the Atmospheric Sciences, 2004, 61, 179-194. | 1.7 | 48 |
| 94 | Sensitivity tests for an ensemble Kalman filter for aerosol assimilation. Atmospheric Chemistry and Physics, 2010, 10, 6583-6600. | 4.9 | 48 |
| 95 | Distributions and climate effects of atmospheric aerosols from the preindustrial era to 2100 along Representative Concentration Pathways (RCPs) simulated using the global aerosol model SPRINTARS. Atmospheric Chemistry and Physics, 2012, 12, 11555-11572. | 4.9 | 48 |
| 96 | Vertical cloud structure observed from shipborne radar and lidar: Midlatitude case study during the MR01/K02 cruise of the research vessel Mirai. Journal of Geophysical Research, 2007, 112, . | 3.3 | 47 |
| 97 | 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 |
| 98 | Episodic upwelling and dust deposition as bloom triggers in low-nutrient, low-chlorophyll regions. Journal of Geophysical Research, 2011, 116, . | 3.3 | 44 |
| 99 | Sensible heat has significantly affected the global hydrological cycle over the historical period. Nature Communications, 2018, 9, 1922. | 12.8 | 44 |
| 100 | Weak global warming mitigation by reducing black carbon emissions. Scientific Reports, 2019, 9, 4419. | 3.3 | 44 |
| 101 | Prognostic Precipitation in the MIROC6â€SPRINTARS GCM: Description and Evaluation Against Satellite Observations. Journal of Advances in Modeling Earth Systems, 2019, 11, 839-860. | 3.8 | 44 |
| 102 | Historical total ozone radiative forcing derived from CMIP6 simulations. Npj Climate and Atmospheric Science, 2020, 3, . | 6.8 | 44 |
| 103 | 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 |
| 104 | Longâ€term inverse modeling of Asian dust: Interannual variations of its emission, transport, deposition, and radiative forcing. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1582-1607. | 3.3 | 43 |
| 105 | Global and regional radiative forcing from 20â€¯% reductions in BC, OC and SO<sub>4</sub> â€“ an HTAP2 multi-model study. Atmospheric Chemistry and Physics, 2016, 16, 13579-13599. | 4.9 | 42 |
| 106 | Evaluation of autoconversion schemes in a single model framework with satellite observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9570-9590. | 3.3 | 40 |
| 107 | Dynamical response of Mediterranean precipitation to greenhouse gases and aerosols. Atmospheric Chemistry and Physics, 2018, 18, 8439-8452. | 4.9 | 40 |
| 108 | Vertical cloud properties in the tropical western Pacific Ocean: Validation of the CCSR/NIES/FRCGC GCM by shipborne radar and lidar. Journal of Geophysical Research, 2008, 113, . | 3.3 | 39 |

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| 109 | Summertime transâ€Pacific transport of Asian dust. Geophysical Research Letters, 2010, 37, . | 4.0 | 39 |
| 110 | Arctic Amplification Response to Individual Climate Drivers. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6698-6717. | 3.3 | 39 |
| 111 | Surprising similarities in model and observational aerosol radiative forcing estimates. Atmospheric Chemistry and Physics, 2020, 20, 613-623. | 4.9 | 39 |
| 112 | Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. Atmospheric Chemistry and Physics, 2021, 21, 1105-1126. | 4.9 | 39 |
| 113 | Evaluation of climate model aerosol trends with ground-based observations over the last 2Âdecades â€“ an AeroCom and CMIP6 analysis. Atmospheric Chemistry and Physics, 2020, 20, 13355-13378. | 4.9 | 38 |
| 114 | Structure of dust and air pollutant outflow over East Asia in the spring. Geophysical Research Letters, 2010, 37, . | 4.0 | 37 |
| 115 | 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 |
| 116 | Importance of global aerosol modeling including secondary organic aerosol formed from monoterpene. Journal of Geophysical Research, 2008, 113, . | 3.3 | 36 |
| 117 | Carbon Dioxide Physiological Forcing Dominates Projected Eastern Amazonian Drying. Geophysical Research Letters, 2018, 45, 2815-2825. | 4.0 | 35 |
| 118 | Emission scenario dependencies in climate change assessments of the hydrological cycle. Climatic Change, 2010, 99, 321-329. | 3.6 | 34 |
| 119 | Emission Scenario Dependency of Precipitation on Global Warming in the MIROC3.2 Model. Journal of Climate, 2010, 23, 2404-2417. | 3.2 | 34 |
| 120 | Assessment of changes in atmospheric dynamics and dust activity over southwest Asia using the Caspian Seaâ€“Hindu Kush Index. International Journal of Climatology, 2017, 37, 1013-1034. | 3.5 | 33 |
| 121 | Weak hydrological sensitivity to temperature change over land, independent of climate forcing. Npj Climate and Atmospheric Science, 2018, 1, . | 6.8 | 33 |
| 122 | Modeling the influence of aerosols on cloud microphysical properties in the east Asia region using a mesoscale model coupled with a binâ€based cloud microphysics scheme. Journal of Geophysical Research, 2008, 113, . | 3.3 | 32 |
| 123 | Perturbations to Global Energy Budget Due to Absorbing and Scattering Aerosols. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2194-2209. | 3.3 | 32 |
| 124 | Direct radiative effect of aerosols estimated using ensemble-based data assimilation in a global aerosol climate model. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 31 |
| 125 | Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. Atmospheric Chemistry and Physics, 2020, 20, 9641-9663. | 4.9 | 30 |
| 126 | A study of long-term trends in mineral dust aerosol distributions in Asia using a general circulation model. Journal of Geophysical Research, 2004, 109, . | 3.3 | 29 |

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| 127 | A new method for evaluating the impact of vertical distribution on aerosol radiative forcing in general circulation models. Atmospheric Chemistry and Physics, 2014, 14, 877-897. | 4.9 | 29 |
| 128 | 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. | 4.1 | 29 |
| 129 | Unrealistically pristine air in the Arctic produced by current global scale models. Scientific Reports, 2016, 6, 26561. | 3.3 | 29 |
| 130 | Water vapour adjustments and responses differ between climate drivers. Atmospheric Chemistry and Physics, 2019, 19, 12887-12899. | 4.9 | 29 |
| 131 | Aerosol absorption in global models from AeroCom phase III. Atmospheric Chemistry and Physics, 2021, 21, 15929-15947. | 4.9 | 27 |
| 132 | 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 |
| 133 | Quantifying the Importance of Rapid Adjustments for Global Precipitation Changes. Geophysical Research Letters, 2018, 45, 11399-11405. | 4.0 | 26 |
| 134 | Simulation of Future Aerosol Distribution, Radiative Forcing, and Long-Range Transport in East Asia.. Journal of the Meteorological Society of Japan, 2001, 79, 1139-1155. | 1.8 | 25 |
| 135 | Long term climatology of particulate matter and associated microphysical and optical properties over Dibrugarh, North-East India and inter-comparison with SPRINTARS simulations. Atmospheric Environment, 2013, 69, 334-344. | 4.1 | 25 |
| 136 | Simulations of black carbon (BC) aerosol impact over Hindu Kush Himalayan sites: validation, sources, and implications on glacier runoff. Atmospheric Chemistry and Physics, 2019, 19, 2441-2460. | 4.9 | 25 |
| 137 | Bias in CMIP6 models as compared to observed regional dimming and brightening. Atmospheric Chemistry and Physics, 2020, 20, 16023-16040. | 4.9 | 25 |
| 138 | Asian and Transâ€Pacific Dust: A Multimodel and Multiremote Sensing Observation Analysis. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13534-13559. | 3.3 | 24 |
| 139 | Aerosol retrieval from twoâ€wavelength backscatter and oneâ€wavelength polarization lidar measurement taken during the MR01K02 cruise of the R/V Mirai and evaluation of a global aerosol transport model. Journal of Geophysical Research, 2008, 113, . | 3.3 | 23 |
| 140 | Physical mechanism of longâ€term drying trend over tropical North Africa. Geophysical Research Letters, 2010, 37, . | 4.0 | 23 |
| 141 | Comparison of aerosol optical properties above clouds between POLDER and AeroCom models over the South East Atlantic Ocean during the fire season. Geophysical Research Letters, 2016, 43, 3991-4000. | 4.0 | 23 |
| 142 | How aerosols and greenhouse gases influence the diurnal temperature range. Atmospheric Chemistry and Physics, 2020, 20, 13467-13480. | 4.9 | 23 |
| 143 | Long-Range Transport of Saharan Dust to East Asia Observed with Lidars. Scientific Online Letters on the Atmosphere, 2005, 1, 121-124. | 1.4 | 21 |
| 144 | Spatial heterogeneity in near surface aerosol characteristics across the Brahmaputra valley. Journal of Earth System Science, 2014, 123, 651-663. | 1.3 | 21 |

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| 145 | Source contributions to sulfur and nitrogen deposition â€“ an HTAP II multi-model study on hemispheric transport. Atmospheric Chemistry and Physics, 2018, 18, 12223-12240. | 4.9 | 21 |
| 146 | Extreme wet and dry conditions affected differently by greenhouse gases and aerosols. Npj Climate and Atmospheric Science, 2019, 2, . | 6.8 | 21 |
| 147 | Comparison of Effective Radiative Forcing Calculations Using Multiple Methods, Drivers, and Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4382-4394. | 3.3 | 21 |
| 148 | Time evolutions of various radiative forcings for the past 150 years estimated by a general circulation model. Geophysical Research Letters, 2006, 33, . | 4.0 | 20 |
| 149 | The SPRINTARS version 3.80/4D-Var data assimilation system: development and inversion experiments based on the observing system simulation experiment framework. Geoscientific Model Development, 2013, 6, 2005-2022. | 3.6 | 20 |
| 150 | Increasing potential of biomass burning over Sumatra, Indonesia induced by anthropogenic tropical warming. Environmental Research Letters, 2014, 9, 104010. | 5.2 | 20 |
| 151 | Modulation of Cloud Droplets and Radiation over the North Pacific by Sulfate Aerosol Erupted from Mount Kilauea. Scientific Online Letters on the Atmosphere, 2011, 7, 77-80. | 1.4 | 20 |
| 152 | Effect of carbonaceous aerosols on surface temperature in the mid twentieth century. Geophysical Research Letters, 2006, 33, . | 4.0 | 18 |
| 153 | Two competing pathways of aerosol effects on cloud and precipitation formation. Geophysical Research Letters, 2007, 34, . | 4.0 | 18 |
| 154 | Anthropogenic changes in the surface all-sky UV-B radiation through 1850â€“2005 simulated by an Earth system model. Atmospheric Chemistry and Physics, 2012, 12, 5249-5257. | 4.9 | 18 |
| 155 | Effect of high dust amount on surface temperature during the Last Glacial Maximum: a modelling study using MIROC-ESM. Climate of the Past, 2018, 14, 1565-1581. | 3.4 | 18 |
| 156 | Fast responses on pre-industrial climate from present-day aerosols in a CMIP6 multi-model study. Atmospheric Chemistry and Physics, 2020, 20, 8381-8404. | 4.9 | 18 |
| 157 | A study of anthropogenic impacts of the radiation budget and the cloud field in East Asia based on model simulations with GCM. Journal of Geophysical Research, 2008, 113, . | 3.3 | 17 |
| 158 | Corrigendum to "Evaluation of black carbon estimations in global aerosol models" published in Atmos. Chem. Phys., 9, 9001-9026, 2009. Atmospheric Chemistry and Physics, 2010, 10, 79-81. | 4.9 | 17 |
| 159 | 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 |
| 160 | Evaluation of Cloud Microphysics in JMA-NHM Simulations Using Bin or Bulk Microphysical Schemes through Comparison with Cloud Radar Observations. Journals of the Atmospheric Sciences, 2012, 69, 2566-2586. | 1.7 | 17 |
| 161 | Distinct responses of Asian summer monsoon to black carbon aerosols and greenhouse gases. Atmospheric Chemistry and Physics, 2020, 20, 11823-11839. | 4.9 | 15 |
| 162 | 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 |

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| 163 | The effects of aerosols on water cloud microphysics and macrophysics based on satellite-retrieved data over East Asia and the North Pacific. Atmospheric Chemistry and Physics, 2014, 14, 11935-11948. | 4.9 | 14 |
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