

# Hitoshi Matsui

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

1,571

citations

23

h-index

38

g-index

86

ext. papers

1,941

ext. citations

5.9

avg, IF

5.02

L-index

#	Paper	IF	Citations
63	Soluble salts in deserts as a source of sulfate aerosols in an Antarctic ice core during the last glacial period. <i>Earth and Planetary Science Letters</i> , <b>2022</b> , 578, 117299	5.3	0
62	Arctic black carbon during PAMARCMiP 2018 and previous aircraft experiments in spring. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 15861-15881	6.8	0
61	Aerosol absorption in global models from AeroCom phase III. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 15929-15947	6.8	4
60	Aerosol radiative forcings induced by substantial changes in anthropogenic emissions in China from 2008 to 2016. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 5965-5982	6.8	8
59	Constraining the atmospheric limb of the plastic cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	62
58	Seasonal Variation of Wet Deposition of Black Carbon at Ny-Ålesund, Svalbard. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD034110	4.4	2
57	High Potential of Asian Dust to Act as Ice Nucleating Particles in Mixed-Phase Clouds Simulated With a Global Aerosol-Climate Model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD034263	4.4	1
56	Studies on Arctic aerosols and clouds during the ArCS project. <i>Polar Science</i> , <b>2021</b> , 27, 100621	2.3	2
55	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. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 87-128	6.8	29
54	Improved Simulations of Global Black Carbon Distributions by Modifying Wet Scavenging Processes in Convective and Mixed-Phase Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033890	4.4	3
53	Global-scale constraints on light-absorbing anthropogenic iron oxide aerosols. <i>Npj Climate and Atmospheric Science</i> , <b>2021</b> , 4,	8	3
52	Understanding Top-of-Atmosphere Flux Bias in the AeroCom Phase III Models: A Clear-Sky Perspective. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2021MS002584	7.1	1
51	Importance of Supersaturation in Arctic Black Carbon Simulations. <i>Journal of Climate</i> , <b>2021</b> , 34, 7843-7856	4.4	2
50	Abundances and Microphysical Properties of Light-Absorbing Iron Oxide and Black Carbon Aerosols Over East Asia and the Arctic. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD032301	4.4	7
49	A global model measurement evaluation of particle light scattering coefficients at elevated relative humidity. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 10231-10258	6.8	7
48	Resolving aerosol mixing state increases accuracy of black carbon respiratory deposition estimates. <i>One Earth</i> , <b>2020</b> , 3, 763-776	8.1	2
47	Seasonal Trends of Atmospheric Ice Nucleating Particles Over Tokyo. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2020JD033658	4.4	7

46	Seasonal Variation of Wet Deposition of Black Carbon in Arctic Alaska. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD032240	4.4	10
45	Black Carbon Absorption Efficiency Under Preindustrial and Present-Day Conditions Simulated by a Size- and Mixing-State-Resolved Global Aerosol Model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD032316	4.4	3
44	Recent (1980 to 2015) Trends and Variability in Daily-to-Interannual Soluble Iron Deposition from Dust, Fire, and Anthropogenic Sources. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089688	4.9	10
43	High Sensitivity of Arctic Black Carbon Radiative Effects to Subgrid Vertical Velocity in Aerosol Activation. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088978	4.9	8
42	Observational constraint of in-cloud supersaturation for simulations of aerosol rainout in atmospheric models. <i>Npj Climate and Atmospheric Science</i> , <b>2019</b> , 2,	8	17
41	Evaluation of global simulations of aerosol particle and cloud condensation nuclei number, with implications for cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 8591-8617	6.8	31
40	Impacts of New Particle Formation on Short-term Meteorology and Air Quality as Determined by the NPF-explicit WRF-Chem in the Midwestern United States. <i>Aerosol and Air Quality Research</i> , <b>2019</b> , 19, 204-220	4.6	4
39	Impacts of Aerosol Dry Deposition on Black Carbon Spatial Distributions and Radiative Effects in the Community Atmosphere Model CAM5. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 1150-1171	7.1	21
38	Anthropogenic combustion iron as a complex climate forcer. <i>Nature Communications</i> , <b>2018</b> , 9, 1593	17.4	48
37	Black carbon radiative effects highly sensitive to emitted particle size when resolving mixing-state diversity. <i>Nature Communications</i> , <b>2018</b> , 9, 3446	17.4	59
36	New particle formation leads to cloud dimming. <i>Npj Climate and Atmospheric Science</i> , <b>2018</b> , 1,	8	12
35	Development of a global aerosol model using a two-dimensional sectional method: 1. Model design. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2017</b> , 9, 1921-1947	7.1	37
34	Development of a global aerosol model using a two-dimensional sectional method: 2. Evaluation and sensitivity simulations. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2017</b> , 9, 1887-1920	7.1	26
33	Observed and Modeled Mass Concentrations of Organic Aerosols and PM2.5 at Three Remote Sites around the East China Sea: Roles of Chemical Aging. <i>Aerosol and Air Quality Research</i> , <b>2017</b> , 17, 3091-3105	4.6	4
32	Enhancement of aerosol responses to changes in emissions over East Asia by gas-oxidant-aerosol coupling and detailed aerosol processes. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 7161-7171	4.4	3
31	Black carbon simulations using a size- and mixing-state-resolved three-dimensional model: 1. Radiative effects and their uncertainties. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 1793-1807	4.4	19
30	Black carbon simulations using a size- and mixing-state-resolved three-dimensional model: 2. Aging timescale and its impact over East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 1808-1821	4.4	22
29	An evaluation of simulated particulate sulfate over East Asia through global model intercomparison. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 6247-6270	4.4	23

28	Modeling particle nucleation and growth over northern California during the 2010 CARES campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 12283-12313	6.8	18
27	Case study of absorption aerosol optical depth closure of black carbon over the East China Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 122-136	4.4	15
26	Modeling ultrafine particle growth at a pine forest site influenced by anthropogenic pollution during BEACHON-RoMBAS 2011. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 11011-11029	6.8	9
25	Volatility basis-set approach simulation of organic aerosol formation in East Asia: implications for anthropogenic/biogenic interaction and controllable amounts. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 9513-9535	6.8	35
24	Development of an aerosol microphysical module: Aerosol Two-dimensional bin module for foRmation and Aging Simulation (ATRAS). <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 10315-10331	6.8	26
23	Wet deposition of black carbon at a remote site in the East China Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 10485-10498	4.4	22
22	Vertical transport mechanisms of black carbon over East Asia in spring during the A-FORCE aircraft campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 13,175-13,198	4.4	28
21	Spatial and temporal variations of new particle formation in East Asia using an NPF-explicit WRF-chem model: North-south contrast in new particle formation frequency. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 11,647-11,663	4.4	28
20	Seasonal variations of Asian black carbon outflow to the Pacific: Contribution from anthropogenic sources in China and biomass burning sources in Siberia and Southeast Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 9948-9967	4.4	24
19	Seasonal variations of black carbon observed at the remote mountain site Happo in Japan. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 3709-3722	4.4	12
18	Development and validation of a black carbon mixing state resolved three-dimensional model: Aging processes and radiative impact. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 2304-2326	4.4	84
17	New source and process apportionment method using a three-dimensional chemical transport model: Process, Age, and Source region Chasing ALgorithm (PASCAL). <i>Atmospheric Environment</i> , <b>2012</b> , 55, 399-409	5.3	9
16	Wet removal of black carbon in Asian outflow: Aerosol Radiative Forcing in East Asia (A-FORCE) aircraft campaign. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		97
15	Measurements of regional-scale aerosol impacts on cloud microphysics over the East China Sea: Possible influences of warm sea surface temperature over the Kuroshio ocean current. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		25
14	Size dependence of wet removal of black carbon aerosols during transport from the boundary layer to the free troposphere. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	74
13	Seasonal variation of the transport of black carbon aerosol from the Asian continent to the Arctic during the ARCTAS aircraft campaign. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		88
12	Emissions of black carbon, organic, and inorganic aerosols from biomass burning in North America and Asia in 2008. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		166
11	Seasonal variations of the transport of black carbon and carbon monoxide from the Asian continent to the western Pacific in the boundary layer. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		35

10	Impact of new particle formation on the concentrations of aerosols and cloud condensation nuclei around Beijing. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		50
9	Accumulation-mode aerosol number concentrations in the Arctic during the ARCTAS aircraft campaign: Long-range transport of polluted and clean air from the Asian continent. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		18
8	Spatial and temporal variations of aerosols around Beijing in summer 2006: 2. Local and column aerosol optical properties. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		16
7	Formation and Transport of Aerosols in Tokyo in Relation to Their Physical and Chemical Properties: A Review. <i>Journal of the Meteorological Society of Japan</i> , <b>2010</b> , 88, 597-624	2.8	24
6	Secondary organic aerosol formation in urban air: Temporal variations and possible contributions from unidentified hydrocarbons. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		65
5	Spatial and temporal variations of aerosols around Beijing in summer 2006: Model evaluation and source apportionment. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		77
4	Seasonal variation of carbon monoxide in northern Japan: Fourier transform IR measurements and source-labeled model calculations. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		10
3	Multi-model evaluation of aerosol optical properties in the AeroCom phase III Control experiment, using ground and space based columnar observations from AERONET, MODIS, AATSR and a merged satellite product as well as surface in-situ observations from GAW sites		6
2	Modeling ultrafine particle growth at a pine forest site influenced by anthropogenic pollution during BEACHON-RoMBAS 2011		3
1	Volatility basis-set approach simulation of organic aerosol formation in East Asia: implications for anthropogenic-biogenic interaction and controllable amounts		3