

# Nobuhiro Moteki

## List of Publications by Citations

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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.

87  
papers

4,010  
citations

30  
h-index

62  
g-index

99  
ext. papers

4,495  
ext. citations

4.7  
avg, IF

5.24  
L-index

#	Paper	IF	Citations
87	Evaluation of black carbon estimations in global aerosol models. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 9001-9026	6.8	510
86	Effects of Mixing State on Black Carbon Measurements by Laser-Induced Incandescence. <i>Aerosol Science and Technology</i> , <b>2007</b> , 41, 398-417	3.4	235
85	Dependence of Laser-Induced Incandescence on Physical Properties of Black Carbon Aerosols: Measurements and Theoretical Interpretation. <i>Aerosol Science and Technology</i> , <b>2010</b> , 44, 663-675	3.4	200
84	Evolution of mixing state of black carbon particles: Aircraft measurements over the western Pacific in March 2004. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	171
83	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
82	Consistency and Traceability of Black Carbon Measurements Made by Laser-Induced Incandescence, Thermal-Optical Transmittance, and Filter-Based Photo-Absorption Techniques. <i>Aerosol Science and Technology</i> , <b>2011</b> , 45, 295-312	3.4	166
81	Global budget and radiative forcing of black carbon aerosol: Constraints from pole-to-pole (HIPPO) observations across the Pacific. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 195-206	4.4	153
80	Temporal variations of elemental carbon in Tokyo. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		142
79	Modelled black carbon radiative forcing and atmospheric lifetime in AeroCom Phase II constrained by aircraft observations. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 12465-12477	6.8	135
78	Evolution of mixing state of black carbon in polluted air from Tokyo. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	133
77	Method to measure refractive indices of small nonspherical particles: Application to black carbon particles. <i>Journal of Aerosol Science</i> , <b>2010</b> , 41, 513-521	4.3	112
76	Radiative impact of mixing state of black carbon aerosol in Asian outflow. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		106
75	Stabilization of the Mass Absorption Cross Section of Black Carbon for Filter-Based Absorption Photometry by the use of a Heated Inlet. <i>Aerosol Science and Technology</i> , <b>2009</b> , 43, 741-756	3.4	99
74	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
73	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
72	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
71	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

70	Emissions of black carbon in East Asia estimated from observations at a remote site in the East China Sea. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		73
69	Partitioning of HNO <sub>3</sub> and particulate nitrate over Tokyo: Effect of vertical mixing. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		69
68	Emission characteristics of black carbon in anthropogenic and biomass burning plumes over California during ARCTAS-CARB 2008. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		60
67	Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 7561-7582	6.8	60
66	Aging of black carbon in outflow from anthropogenic sources using a mixing state resolved model: Model development and evaluation. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		56
65	Size-dependent correction factors for absorption measurements using filter-based photometers: PSAP and COSMOS. <i>Journal of Aerosol Science</i> , <b>2010</b> , 41, 333-343	4.3	49
64	Anthropogenic combustion iron as a complex climate forcer. <i>Nature Communications</i> , <b>2018</b> , 9, 1593	17.4	48
63	Method to measure time-dependent scattering cross sections of particles evaporating in a laser beam. <i>Journal of Aerosol Science</i> , <b>2008</b> , 39, 348-364	4.3	44
62	Anthropogenic iron oxide aerosols enhance atmospheric heating. <i>Nature Communications</i> , <b>2017</b> , 8, 15329	7.4	43
61	Evaluation of ground-based black carbon measurements by filter-based photometers at two Arctic sites. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 3544-3572	4.4	41
60	Identification by single-particle soot photometer of black carbon particles attached to other particles: Laboratory experiments and ground observations in Tokyo. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 1031-1043	4.4	39
59	A key process controlling the wet removal of aerosols: new observational evidence. <i>Scientific Reports</i> , <b>2016</b> , 6, 34113	4.9	35
58	How emissions uncertainty influences the distribution and radiative impacts of smoke from fires in North America. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 2073-2097	6.8	31
57	Mixing states of light-absorbing particles measured using a transmission electron microscope and a single-particle soot photometer in Tokyo, Japan. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 9153-9164	4.4	30
56	Measurements of aerosol optical properties in central Tokyo during summertime using cavity ring-down spectroscopy: Comparison with conventional techniques. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 3034-3042	5.3	29
55	Improved technique for measuring the size distribution of black carbon particles in liquid water. <i>Aerosol Science and Technology</i> , <b>2016</b> , 50, 242-254	3.4	29
54	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
53	Evaluation of a Method for Measurement of the Concentration and Size Distribution of Black Carbon Particles Suspended in Rainwater. <i>Aerosol Science and Technology</i> , <b>2011</b> , 45, 1326-1336	3.4	28

52	Evaluation of a Method to Measure Black Carbon Particles Suspended in Rainwater and Snow Samples. <i>Aerosol Science and Technology</i> , <b>2013</b> , 47, 1073-1082	3-4	27
51	Effects of wet deposition on the abundance and size distribution of black carbon in East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 4691-4712	4-4	27
50	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
49	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
48	Directional dependence of thermal emission from nonspherical carbon particles. <i>Journal of Aerosol Science</i> , <b>2009</b> , 40, 790-801	4-3	24
47	Measurement of fluorescence spectra from atmospheric single submicron particle using laser-induced fluorescence technique. <i>Journal of Aerosol Science</i> , <b>2013</b> , 58, 1-8	4-3	23
46	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
45	Radiative transfer modeling of filter-based measurements of light absorption by particles: Importance of particle size dependent penetration depth. <i>Journal of Aerosol Science</i> , <b>2010</b> , 41, 401-412	4-3	21
44	Accuracy of black carbon measurements by a filter-based absorption photometer with a heated inlet. <i>Aerosol Science and Technology</i> , <b>2019</b> , 53, 1079-1091	3-4	20
43	Estimating Source Region Influences on Black Carbon Abundance, Microphysics, and Radiative Effect Observed Over South Korea. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 13,527	4-4	20
42	Detection of light-absorbing iron oxide particles using a modified single-particle soot photometer. <i>Aerosol Science and Technology</i> , <b>2016</b> , 50, 1-4	3-4	18
41	Black Carbon and Inorganic Aerosols in Arctic Snowpack. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 13325-13356	4-4	18
40	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
39	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
38	Seasonal Progression of the Deposition of Black Carbon by Snowfall at Ny-Ålesund, Spitsbergen. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 997-1016	4-4	16
37	Corrigendum to "Evaluation of black carbon estimations in global aerosol models" published in <i>Atmos. Chem. Phys.</i> , 9, 9001-9026, 2009. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 79-81	6-8	16
36	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
35	Hygroscopicity of materials internally mixed with black carbon measured in Tokyo. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 362-381	4-4	15

34	Discrete dipole approximation for black carbon-containing aerosols in arbitrary mixing state: A hybrid discretization scheme. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2016</b> , 178, 306-314	2.1	14
33	Abundance and Emission Flux of the Anthropogenic Iron Oxide Aerosols From the East Asian Continental Outflow. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 11,194-11,209	4.4	14
32	Concentrations and Size Distributions of Black Carbon in the Surface Snow of Eastern Antarctica in 2011. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD030737	4.4	11
31	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
30	Variability of aerosol particle number concentrations observed over the western Pacific in the spring of 2009. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 13,474-13,488	4.4	9
29	Modeled black carbon radiative forcing and atmospheric lifetime in AeroCom Phase II constrained by aircraft observations		9
28	Enhanced New Particle Formation Above the Marine Boundary Layer Over the Yellow Sea: Potential Impacts on Cloud Condensation Nuclei. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031448	4.4	9
27	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
26	Abundance of Light-Absorbing Anthropogenic Iron Oxide Aerosols in the Urban Atmosphere and Their Emission Sources. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 8115	4.4	8
25	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
24	Condensation Particle Counters Combined with a Low-Pressure Impactor for Fast Measurement of Mode-Segregated Aerosol Number Concentration. <i>Aerosol Science and Technology</i> , <b>2013</b> , 47, 1059-1065	3.4	7
23	Evaluation of a Heated-Inlet for Calibration of the SP2. <i>Aerosol Science and Technology</i> , <b>2013</b> , 47, 895-905	3.4	7
22	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
21	Theoretical analysis of a method to measure size distributions of solid particles in water by aerosolization. <i>Journal of Aerosol Science</i> , <b>2015</b> , 83, 25-31	4.3	6
20	An empirical correction factor for filter-based photo-absorption black carbon measurements. <i>Journal of Aerosol Science</i> , <b>2015</b> , 80, 86-97	4.3	6
19	Capabilities and limitations of the single-particle extinction and scattering method for estimating the complex refractive index and size-distribution of spherical and non-spherical submicron particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2020</b> , 243, 106811	2.1	6
18	Evaluation of black carbon estimations in global aerosol models		5
17	Compositions and mixing states of aerosol particles by aircraft observations in the Arctic springtime, 2018. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 3607-3626	6.8	5

16	Multiangle Polarimetry of Thermal Emission and Light Scattering by Individual Particles in Airflow. <i>Aerosol Science and Technology</i> , <b>2011</b> , 45, 1184-1198	3-4	4
15	Changes in black carbon and PM in Tokyo in 2003-2017. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , <b>2020</b> , 96, 122-129	4	3
14	Emission Regulations Altered the Concentrations, Origin, and Formation of Carbonaceous Aerosols in the Tokyo Metropolitan Area. <i>Aerosol and Air Quality Research</i> , <b>2016</b> , 16, 1603-1614	4-6	3
13	Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns		3
12	Measuring the complex forward-scattering amplitude of single particles by self-reference interferometry: CAS-v1 protocol. <i>Optics Express</i> , <b>2021</b> , 29, 20688-20714	3-3	3
11	Analysis of the mixing state of airborne particles using a tandem combination of laser-induced fluorescence and incandescence techniques. <i>Journal of Aerosol Science</i> , <b>2015</b> , 87, 102-110	4-3	2
10	A new theoretical method for calculating temperature and water vapor saturation ratio in an expansion cloud chamber. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 6633-6642	4-4	2
9	Estimates of mass absorption cross sections of black carbon for filter-based absorption photometers in the Arctic. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 6723-6748	4	2
8	Estimates of mass absorption cross sections of black carbon for filter-based absorption photometers in the Arctic		2
7	Estimates of mass absorption cross sections of black carbon for filter-based absorption photometers in the Arctic		2
6	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
5	Studies on Arctic aerosols and clouds during the ArCS project. <i>Polar Science</i> , <b>2021</b> , 27, 100621	2-3	2
4	Identification and particle sizing of submicron mineral dust by using complex forward-scattering amplitude data. <i>Aerosol Science and Technology</i> , 1-14	3-4	1
3	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
2	Corrigendum to Capabilities and limitations of the single-particle extinction and scattering method for estimating the complex refractive index and size-distribution of spherical and non-spherical submicron particles [JQSRT 243 (2020) 106811]. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2021</b> , 263, 107551	2-1	0
1	Corona-Imaging Colorimetric Method for Accurate Measurement of the Size of Water Droplets in an Expansion Chamber. <i>Aerosol Science and Technology</i> , <b>2013</b> , 47, 1134-1143	3-4	