Nobuhiro Moteki

List of Publications by Year in Descending Order

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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.

62 87 4,010 30 h-index g-index citations papers 4,495 99 4.7 5.24 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
87	Estimates of mass absorption cross sections of black carbon for filter-based absorption photometers in the Arctic. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6723-6748	4	2
86	Arctic black carbon during PAMARCMiP 2018 and previous aircraft experiments in spring. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 15861-15881	6.8	0
85	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</i>	2.1	О
84	Compositions and mixing states of aerosol particles by aircraft observations in the Arctic springtime, 2018. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3607-3626	6.8	5
83	Measuring the complex forward-scattering amplitude of single particles by self-reference interferometry: CAS-v1 protocol. <i>Optics Express</i> , 2021 , 29, 20688-20714	3.3	3
82	Seasonal Variation of Wet Deposition of Black Carbon at Ny-lesund, Svalbard. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034110	4.4	2
81	Studies on Arctic aerosols and clouds during the ArCS project. <i>Polar Science</i> , 2021 , 27, 100621	2.3	2
80	How emissions uncertainty influences the distribution and radiative impacts of smoke from fires in North America. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2073-2097	6.8	31
79	Changes in black carbon and PM in Tokyo in 2003-2017. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2020 , 96, 122-129	4	3
78	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> , 2020 , 125, e2019JD0323	30 ⁴ 1 ^{.4}	7
77	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> , 2020 , 243, 106811	2.1	6
76	Concentrations and Size Distributions of Black Carbon in the Surface Snow of Eastern Antarctica in 2011. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD030737	4.4	11
75	Seasonal Trends of Atmospheric Ice Nucleating Particles Over Tokyo. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD033658	4.4	7
74	Seasonal Variation of Wet Deposition of Black Carbon in Arctic Alaska. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032240	4.4	10
73	High Sensitivity of Arctic Black Carbon Radiative Effects to Subgrid Vertical Velocity in Aerosol Activation. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088978	4.9	8
72	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> , 2020 , 125, e2019JD031448	4.4	9
71	Accuracy of black carbon measurements by a filter-based absorption photometer with a heated inlet. <i>Aerosol Science and Technology</i> , 2019 , 53, 1079-1091	3.4	20

(2015-2019)

70	Observational constraint of in-cloud supersaturation for simulations of aerosol rainout in atmospheric models. <i>Npj Climate and Atmospheric Science</i> , 2019 , 2,	8	17
69	Black Carbon and Inorganic Aerosols in Arctic Snowpack. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 13325-13356	4.4	18
68	Anthropogenic combustion iron as a complex climate forcer. <i>Nature Communications</i> , 2018 , 9, 1593	17.4	48
67	Seasonal Progression of the Deposition of Black Carbon by Snowfall at Ny-Lesund, Spitsbergen. Journal of Geophysical Research D: Atmospheres, 2018, 123, 997-1016	4.4	16
66	Abundance of Light-Absorbing Anthropogenic Iron Oxide Aerosols in the Urban Atmosphere and Their Emission Sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 8115	4.4	8
65	Estimating Source Region Influences on Black Carbon Abundance, Microphysics, and Radiative Effect Observed Over South Korea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 13,527	4.4	20
64	Abundance and Emission Flux of the Anthropogenic Iron Oxide Aerosols From the East Asian Continental Outflow. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 11,194-11,209	4.4	14
63	Evaluation of ground-based black carbon measurements by filter-based photometers at two Arctic sites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3544-3572	4.4	41
62	Anthropogenic iron oxide aerosols enhance atmospheric heating. <i>Nature Communications</i> , 2017 , 8, 153	29 7.4	43
61	A key process controlling the wet removal of aerosols: new observational evidence. <i>Scientific Reports</i> , 2016 , 6, 34113	4.9	35
60	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> , 2016 , 121, 9153-9164	4.4	30
59	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> , 2016 , 178, 306-314	2.1	14
58	Detection of light-absorbing iron oxide particles using a modified single-particle soot photometer. <i>Aerosol Science and Technology</i> , 2016 , 50, 1-4	3.4	18
57	Emission Regulations Altered the Concentrations, Origin, and Formation of Carbonaceous Aerosols in the Tokyo Metropolitan Area. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 1603-1614	4.6	3
56	Effects of wet deposition on the abundance and size distribution of black carbon in East Asia. Journal of Geophysical Research D: Atmospheres, 2016 , 121, 4691-4712	4.4	27
55	Improved technique for measuring the size distribution of black carbon particles in liquid water. <i>Aerosol Science and Technology</i> , 2016 , 50, 242-254	3.4	29
54	Hygroscopicity of materials internally mixed with black carbon measured in Tokyo. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 362-381	4.4	15
53	Theoretical analysis of a method to measure size distributions of solid particles in water by aerosolization. <i>Journal of Aerosol Science</i> , 2015 , 83, 25-31	4.3	6

52	An empirical correction factor for filter-based photo-absorption black carbon measurements. Journal of Aerosol Science, 2015 , 80, 86-97	4.3	6
51	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> , 2015 , 87, 102-110	4.3	2
50	Case study of absorption aerosol optical depth closure of black carbon over the East China Sea. Journal of Geophysical Research D: Atmospheres, 2014 , 119, 122-136	4.4	15
49	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> , 2014 , 119, 1031-1043	4.4	39
48	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> , 2014 , 119, 195-206	4.4	153
47	Modelled black carbon radiative forcing and atmospheric lifetime in AeroCom Phase II constrained by aircraft observations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12465-12477	6.8	135
46	Wet deposition of black carbon at a remote site in the East China Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 10485-10498	4.4	22
45	Variability of aerosol particle number concentrations observed over the western Pacific in the spring of 2009. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,474-13,488	4.4	9
44	Corona-Imaging Colorimetric Method for Accurate Measurement of the Size of Water Droplets in an Expansion Chamber. <i>Aerosol Science and Technology</i> , 2013 , 47, 1134-1143	3.4	
43	Evaluation of a Method to Measure Black Carbon Particles Suspended in Rainwater and Snow Samples. <i>Aerosol Science and Technology</i> , 2013 , 47, 1073-1082	3.4	27
42	Measurement of fluorescence spectra from atmospheric single submicron particle using laser-induced fluorescence technique. <i>Journal of Aerosol Science</i> , 2013 , 58, 1-8	4.3	23
41	Condensation Particle Counters Combined with a Low-Pressure Impactor for Fast Measurement of Mode-Segregated Aerosol Number Concentration. <i>Aerosol Science and Technology</i> , 2013 , 47, 1059-1065	3.4	7
40	Evaluation of a Heated-Inlet for Calibration of the SP2. Aerosol Science and Technology, 2013, 47, 895-90)5 .4	7
39	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> , 2013 , 118, 13,175-13,198	4.4	28
38	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> , 2013 , 118, 9948-9967	4.4	24
37	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> , 2013 , 118, 6633-6642	4.4	2
36	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> , 2013 , 118, 2304-	2 13 26	84
35	Emission characteristics of black carbon in anthropogenic and biomass burning plumes over California during ARCTAS-CARB 2008. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		60

34	Wet removal of black carbon in Asian outflow: Aerosol Radiative Forcing in East Asia (A-FORCE) aircraft campaign. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		97
33	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> , 2012 , 117, n/a-n/a		25
32	Size dependence of wet removal of black carbon aerosols during transport from the boundary layer to the free troposphere. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	74
31	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> , 2011 , 116,		88
30	Emissions of black carbon, organic, and inorganic aerosols from biomass burning in North America and Asia in 2008. <i>Journal of Geophysical Research</i> , 2011 , 116,		166
29	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> , 2011 , 116,		73
28	Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7561-7582	6.8	60
27	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> , 2011 , 116,		18
26	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> , 2011 , 45, 295-312	3.4	166
25	Multiangle Polarimetry of Thermal Emission and Light Scattering by Individual Particles in Airflow. <i>Aerosol Science and Technology</i> , 2011 , 45, 1184-1198	3.4	4
24	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> , 2011 , 45, 1326-1336	3.4	28
23	Dependence of Laser-Induced Incandescence on Physical Properties of Black Carbon Aerosols: Measurements and Theoretical Interpretation. <i>Aerosol Science and Technology</i> , 2010 , 44, 663-675	3.4	200
22	Size-dependent correction factors for absorption measurements using filter-based photometers: PSAP and COSMOS. <i>Journal of Aerosol Science</i> , 2010 , 41, 333-343	4.3	49
21	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> , 2010 , 41, 401-412	4.3	21
20	Method to measure refractive indices of small nonspherical particles: Application to black carbon particles. <i>Journal of Aerosol Science</i> , 2010 , 41, 513-521	4.3	112
19	Corrigendum to "Evaluation of black carbon estimations in global aerosol models" published in Atmos. Chem. Phys., 9, 9001-9026, 2009. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 79-81	6.8	16
18	Measurements of aerosol optical properties in central Tokyo during summertime using cavity ring-down spectroscopy: Comparison with conventional techniques. <i>Atmospheric Environment</i> , 2010 , 44, 3034-3042	5.3	29
17	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> , 2009 , 43, 741-756	3.4	99

16	Directional dependence of thermal emission from nonspherical carbon particles. <i>Journal of Aerosol Science</i> , 2009 , 40, 790-801	4.3	24
15	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> , 2009 , 114,		56
14	Evaluation of black carbon estimations in global aerosol models. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9001-9026	6.8	510
13	Method to measure time-dependent scattering cross sections of particles evaporating in a laser beam. <i>Journal of Aerosol Science</i> , 2008 , 39, 348-364	4.3	44
12	Radiative impact of mixing state of black carbon aerosol in Asian outflow. <i>Journal of Geophysical Research</i> , 2008 , 113,		106
11	Effects of Mixing State on Black Carbon Measurements by Laser-Induced Incandescence. <i>Aerosol Science and Technology</i> , 2007 , 41, 398-417	3.4	235
10	Evolution of mixing state of black carbon particles: Aircraft measurements over the western Pacific in March 2004. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	171
9	Evolution of mixing state of black carbon in polluted air from Tokyo. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	133
8	Temporal variations of elemental carbon in Tokyo. Journal of Geophysical Research, 2006, 111,		142
7	Partitioning of HNO3 and particulate nitrate over Tokyo: Effect of vertical mixing. <i>Journal of Geophysical Research</i> , 2006 , 111,		69
6	Estimates of mass absorption cross sections of black carbon for filter-based absorption photometers in the Arctic		2
5	Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns		3
4	Modeled black carbon radiative forcing and atmospheric lifetime in AeroCom Phase II constrained by aircraft observations		9
3	Evaluation of black carbon estimations in global aerosol models		5
2	Estimates of mass absorption cross sections of black carbon for filter-based absorption photometers in the Arctic		2
1	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