Mikinori Kuwata

List of Publications by Year
in descending order

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47 papers	2,901 citations	236925 25 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	2841 citing authors

#	Article	IF	Citations
1	Viscosity of <i>Î±</i> -pinene secondary organic material and implications for particle growth and reactivity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8014-8019.	7.1	388
2	Predicting the relative humidities of liquid-liquid phase separation, efflorescence, and deliquescence of mixed particles of ammonium sulfate, organic material, and water using the organic-to-sulfate mass ratio of the particle and the oxygen-to-carbon elemental ratio of the organic component. Atmospheric Chemistry and Physics, 2011, 11, 10995-11006.	4.9	297
3	Using Elemental Ratios to Predict the Density of Organic Material Composed of Carbon, Hydrogen, and Oxygen. Environmental Science & Technology, 2012, 46, 787-794.	10.0	209
4	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. Atmospheric Chemistry and Physics, 2015, 15, 11807-11833.	4.9	185
5	Phase of atmospheric secondary organic material affects its reactivity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17354-17359.	7.1	182
6	Cloud condensation nuclei (CCN) from fresh and aged air pollution in the megacity region of Beijing. Atmospheric Chemistry and Physics, 2011, 11, 11023-11039.	4.9	147
7	Stabilization of the Mass Absorption Cross Section of Black Carbon for Filter-Based Absorption Photometry by the use of a Heated Inlet. Aerosol Science and Technology, 2009, 43, 741-756.	3.1	113
8	Changing shapes and implied viscosities of suspended submicron particles. Atmospheric Chemistry and Physics, 2015, 15, 7819-7829.	4.9	106
9	Cloud condensation nuclei activity at Jeju Island, Korea in spring 2005. Atmospheric Chemistry and Physics, 2008, 8, 2933-2948.	4.9	89
10	Submicron particle mass concentrations and sources in the Amazonian wet season (AMAZE-08). Atmospheric Chemistry and Physics, 2015, 15, 3687-3701.	4.9	88
11	Light-Absorbing Brown Carbon Aerosol Constituents from Combustion of Indonesian Peat and Biomass. Environmental Science & Technology, 2017, 51, 4415-4423.	10.0	86
12	Elemental composition of organic aerosol: The gap between ambient and laboratory measurements. Geophysical Research Letters, 2015, 42, 4182-4189.	4.0	84
13	Secondary Organic Material Produced by the Dark Ozonolysis of Î±-Pinene Minimally Affects the Deliquescence and Efflorescence of Ammonium Sulfate. Aerosol Science and Technology, 2011, 45, 244-261.	3.1	69
14	Classifying organic materials by oxygen-to-carbon elemental ratio to predict the activation regime of Cloud Condensation Nuclei (CCN). Atmospheric Chemistry and Physics, 2013, 13, 5309-5324.	4.9	67
15	Critical condensed mass for activation of black carbon as cloud condensation nuclei in Tokyo. Journal of Geophysical Research, 2009, 114, .	3.3	63
16	New estimate of particulate emissions from Indonesian peat fires in 2015. Atmospheric Chemistry and Physics, 2019, 19, 11105-11121.	4.9	63
17	Relationship between hygroscopicity and cloud condensation nuclei activity for urban aerosols in Tokyo. Journal of Geophysical Research, 2006, 111, .	3.3	59
18	The Dynamic Shape Factor of Sodium Chloride Nanoparticles as Regulated by Drying Rate. Aerosol Science and Technology, 2010, 44, 939-953.	3.1	56

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19	Uptake of Epoxydiol Isomers Accounts for Half of the Particle-Phase Material Produced from Isoprene Photooxidation via the HO₂ Pathway. Environmental Science & Technology, 2015, 49, 250-258.	10.0	48
20	Particle mass yield from <i>Î²</i>-caryophyllene ozonolysis. Atmospheric Chemistry and Physics, 2012, 12, 3165-3179.	4.9	44
21	Dependence of sizeâ€resolved CCN spectra on the mixing state of nonvolatile cores observed in Tokyo. Journal of Geophysical Research, 2008, 113, .	3.3	41
22	Measurements of particle masses of inorganic salt particles for calibration of cloud condensation nuclei counters. Atmospheric Chemistry and Physics, 2009, 9, 5921-5932.	4.9	37
23	Phase Transitions and Phase Miscibility of Mixed Particles of Ammonium Sulfate, Toluene-Derived Secondary Organic Material, and Water. Journal of Physical Chemistry A, 2013, 117, 8895-8906.	2.5	34
24	Physical state and acidity of inorganic sulfate can regulate the production of secondary organic material from isoprene photooxidation products. Physical Chemistry Chemical Physics, 2015, 17, 5670-5678.	2.8	30
25	Global Importance of Hydroxymethanesulfonate in Ambient Particulate Matter: Implications for Air Quality. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032706.	3.3	28
26	Dominant contribution of oxygenated organic aerosol to haze particles from real-time observation in Singapore during an Indonesian wildfire event in 2015. Atmospheric Chemistry and Physics, 2018, 18, 16481-16498.	4.9	24
27	Formation and Transport of Aerosols in Tokyo in Relation to Their Physical and Chemical Properties: A Review. Journal of the Meteorological Society of Japan, 2010, 88, 597-624.	1.8	24
28	Cloud condensation nuclei (CCN) activity and oxygen-to-carbon elemental ratios following thermodenuder treatment of organic particles grown by Î±-pinene ozonolysis. Physical Chemistry Chemical Physics, 2011, 13, 14571.	2.8	22
29	Particle Size Distributions following Condensational Growth in Continuous Flow Aerosol Reactors as Derived from Residence Time Distributions: Theoretical Development and Application to Secondary Organic Aerosol. Aerosol Science and Technology, 2012, 46, 937-949.	3.1	22
30	Water uptake by fresh Indonesian peat burning particles is limited by water-soluble organic matter. Atmospheric Chemistry and Physics, 2017, 17, 11591-11604.	4.9	22
31	Uptake and release of gaseous species accompanying the reactions of isoprene photo-oxidation products with sulfate particles. Physical Chemistry Chemical Physics, 2016, 18, 1595-1600.	2.8	20
32	Polarity-Dependent Chemical Characteristics of Water-Soluble Organic Matter from Laboratory-Generated Biomass-Burning Revealed by 1-Octanolâ€“Water Partitioning. Environmental Science & Technology, 2019, 53, 8047-8056.	10.0	18
33	Particle Classification by the Tandem Differential Mobility Analyzerâ€“Particle Mass Analyzer System. Aerosol Science and Technology, 2015, 49, 508-520.	3.1	16
34	Phase State and Deliquescence Hysteresis of Ammonium-Sulfate-Seeded Secondary Organic Aerosol. Aerosol Science and Technology, 2015, 49, 531-537.	3.1	15
35	Temperature and burning history affect emissions of greenhouse gases and aerosol particles from tropical peatland fire. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1281-1292.	3.3	15
36	Secondary aerosol formation promotes water uptake by organic-rich wildfire haze particles in equatorial Asia. Atmospheric Chemistry and Physics, 2018, 18, 7781-7798.	4.9	15

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37	1-octanol-water partitioning as a classifier of water soluble organic matters: Implication for solubility distribution. Aerosol Science and Technology, 2017, 51, 602-613.	3.1	14
38	A Significant Portion of Water-Soluble Organic Matter in Fresh Biomass Burning Particles Does Not Contribute to Hygroscopic Growth: An Application of Polarity Segregation by 1-Octanolâ€"Water Partitioning Method. Environmental Science & Technology, 2019, 53, 10034-10042.	10.0	11
39	Constraining the Emission of Particulate Matter From Indonesian Peatland Burning Using Continuous Observation Data. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9828-9842.	3.3	10
40	The Relationship between Molecular Size and Polarity of Atmospheric Organic Aerosol in Singapore and Its Implications for Volatility and Light Absorption Properties. ACS Earth and Space Chemistry, 2021, 5, 3182-3196.	2.7	9
41	Estimation of Metal Emissions From Tropical Peatland Burning in Indonesia by Controlled Laboratory Experiments. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6583-6599.	3.3	6
42	The Maddenâ€Julian Oscillation Modulates the Air Quality in the Maritime Continent. Earth and Space Science, 2021, 8, e2021EA001708.	2.6	6
43	Can Online Aerosol Mass Spectrometry Analysis Classify Secondary Organic Aerosol (SOA) and Oxidized Primary Organic Aerosol (OPOA)? A Case Study of Laboratory and Field Studies of Indonesian Biomass Burning. ACS Earth and Space Chemistry, 2021, 5, 3511-3522.	2.7	6
44	An Analytic Equation for the Volume Fraction of Condensationally Grown Mixed Particles and Applications to Secondary Organic Material Produced in Continuously Mixed Flow Reactors. Aerosol Science and Technology, 2014, 48, 803-812.	3.1	5
45	Roles of Relative Humidity and Particle Size on Chemical Aging of Tropical Peatland Burning Particles: Potential Influence of Phase State and Implications for Hygroscopic Property. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	3
46	Intense laser-induced decomposition of mass-selected 2-, 3-, and 4-methylaniline cations. Chemical Physics Letters, 2008, 462, 27-30.	2.6	2
47	An inversion method for polarity distribution of atmospheric water-soluble organic matter. Aerosol Science and Technology, 2020, 54, 1504-1514.	3.1	2