Tomoki Nakayama

List of Publications by Year
in descending order

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78	1,714	279487 23	344852 36
papers	citations	h-index	g-index

88	88	88	3077
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genesis of a Severe Dust Storm Over the Indian Subcontinent: Dynamics and Impacts. Earth and Space Science, 2022, 9, e2021EA001702.	1.1	7
2	Offline analysis of the chemical composition and hygroscopicity of submicrometer aerosol at an Asian outflow receptor site and comparison with online measurements. Atmospheric Chemistry and Physics, 2022, 22, 5515-5533.	1.9	2
3	The effects of meteorological conditions and long-range transport on PM2.5 levels in Hanoi revealed from multi-site measurement using compact sensors and machine learning approach. Journal of Aerosol Science, 2021, 152, 105716.	1.8	22
4	Variabilities in PM2.5 and Black Carbon Surface Concentrations Reproduced by Aerosol Optical Properties Estimated by In-Situ Data, Ground Based Remote Sensing and Modeling. Remote Sensing, 2021, 13, 3163.	1.8	4
5	Kinetics and impacting factors of HO₂ uptake onto submicron atmospheric aerosols during the 2019 Air QUAlity Study (AQUAS) in Yokohama, Japan. Atmospheric Chemistry and Physics, 2021, 21, 12243-12260.	1.9	16
6	Nitrate radical, ozone and hydroxyl radical initiated aging of limonene secondary organic aerosol. Atmospheric Environment: X, 2021, 9, 100102.	0.8	0
7	Total hydroxyl radical reactivity measurements in a suburban area during AQUASâ€“Tsukuba campaign in summer 2017. Science of the Total Environment, 2020, 740, 139897.	3.9	9
8	Can Delhi's Pollution be Affected by Crop Fires in the Punjab Region?. Scientific Online Letters on the Atmosphere, 2020, 16, 86-91.	0.6	16
9	Assessment of the Sphericity of Submicrometer Particles Using a Single-particle Polar Nephelometer at an Urban Site in Japan. Aerosol and Air Quality Research, 2020, 20, 2474-2484.	0.9	2
10	Relative and Absolute Sensitivity Analysis on Ozone Production in Tsukuba, a City in Japan. Environmental Science & Technology, 2019, 53, 13629-13635.	4.6	17
11	Investigation of dark condition nitrate radical- and ozone-initiated aging of toluene secondary organic aerosol: Importance of nitrate radical reactions with phenolic products. Atmospheric Environment, 2019, 219, 117049.	1.9	14
12	Diurnal variation and size dependence of the hygroscopicity of organic aerosol at a forest site in Wakayama, Japan: their relationship to CCN concentrations. Atmospheric Chemistry and Physics, 2019, 19, 5889-5903.	1.9	11
13	Characterization and possible sources of nitrated mono- and di-aromatic hydrocarbons containing hydroxyl and/or carboxyl functional groups in ambient particles in Nagoya, Japan. Atmospheric Environment, 2019, 211, 91-102.	1.9	24
14	Observation of column-averaged molar mixing ratios of carbon dioxide in Tokyo. Atmospheric Environment: X, 2019, 2, 100022.	0.8	1
15	Development of a balloon-borne instrument for CO₂ vertical profile observations in the troposphere. Atmospheric Measurement Techniques, 2019, 12, 5639-5653.	1.2	6
16	Effect of Oxidation Process on Complex Refractive Index of Secondary Organic Aerosol Generated from Isoprene. Environmental Science & Technology, 2018, 52, 2566-2574.	4.6	19
17	Hygroscopicity of Organic Aerosols and Their Contributions to CCN Concentrations Over a Midlatitude Forest in Japan. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9703-9723.	1.2	21
18	Development and evaluation of a palm-sized optical PM_{2.5}sensor. Aerosol Science and Technology, 2018, 52, 2-12.	1.5	49

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19	Characterizing PM2.5 in Hanoi with New High Temporal Resolution Sensor. Aerosol and Air Quality Research, 2018, 18, 2487-2497.	0.9	41
20	Hygroscopicity and cloud condensation nucleus activity of forest aerosol particles during summer in Wakayama, Japan. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3042-3064.	1.2	13
21	Missing ozone-induced potential aerosol formation in a suburban deciduous forest. Atmospheric Environment, 2017, 171, 91-97.	1.9	2
22	Continuous measurements of stable isotopes of carbon dioxide and water vapour in an urban atmosphere: isotopic variations associated with meteorological conditions. Isotopes in Environmental and Health Studies, 2017, 53, 646-659.	0.5	3
23	Ground-based measurement of column-averaged mixing ratios of methane and carbon dioxide in the Sichuan Basin of China by a desktop optical spectrum analyzer. Journal of Applied Remote Sensing, 2017, 12, 1.	0.6	4
24	Hygroscopicity and CCN activity of atmospheric aerosol particles and their relation to organics: Characteristics of urban aerosols in Nagoya, Japan. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4100-4121.	1.2	27
25	Design and characterization of a novel single-particle polar nephelometer. Aerosol Science and Technology, 2016, 50, 392-404.	1.5	19
26	In situ measurement of CO₂ and water vapour isotopic compositions at a forest site using mid-infrared laser absorption spectroscopy. Isotopes in Environmental and Health Studies, 2016, 52, 603-618.	0.5	2
27	Hygroscopicity of aerosol particles and CCN activity of nearly hydrophobic particles in the urban atmosphere over Japan during summer. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7215-7234.	1.2	14
28	Light absorption and morphological properties of soot-containing aerosols observed at an East Asian outflow site, Noto Peninsula, Japan. Atmospheric Chemistry and Physics, 2016, 16, 2525-2541.	1.9	54
29	Total OH reactivity measurement in a BVOC dominated temperate forest during a summer campaign, 2014. Atmospheric Environment, 2016, 131, 41-54.	1.9	21
30	Characterization of a Three Wavelength Photoacoustic Soot Spectrometer (PASS-3) and a Photoacoustic Extinctiometer (PAX). Journal of the Meteorological Society of Japan, 2015, 93, 285-308.	0.7	68
31	Complex refractive index of secondary organic aerosol generated from isoprene/NO_x photooxidation in the presence and absence of SO₂. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7777-7787.	1.2	27
32	East Asian Monsoon controls on the inter-annual variability in precipitation isotope ratio in Japan. Climate of the Past, 2015, 11, 339-353.	1.3	28
33	Evaluation of MAX-DOAS aerosol retrievals by coincident observations using CRDS, lidar, and sky radiometer inTsukuba, Japan. Atmospheric Measurement Techniques, 2015, 8, 2775-2788.	1.2	33
34	Characteristics of atmospheric aerosols containing heavy metals measured on Fukue Island, Japan. Atmospheric Environment, 2014, 97, 447-455.	1.9	28
35	Formation and evolution of biogenic secondary organic aerosol over a forest site in Japan. Journal of Geophysical Research D: Atmospheres, 2014, 119, 259-273.	1.2	16
36	Measurement of the light absorbing properties of diesel exhaust particles using a three-wavelength photoacoustic spectrometer. Atmospheric Environment, 2014, 94, 428-437.	1.9	25

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37	Properties of lightâ€absorbing aerosols in the Nagoya urban area, Japan, in August 2011 and January 2012: Contributions of brown carbon and lensing effect. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,721.	1.2	57
38	Observation of new particle formation over a mid-latitude forest facing the North Pacific. Atmospheric Environment, 2013, 64, 77-84.	1.9	23
39	Wavelength and NO_x dependent complex refractive index of SOAs generated from the photooxidation of toluene. Atmospheric Chemistry and Physics, 2013, 13, 531-545.	1.9	129
40	Isotopic Variations Associated with North-South Displacement of the Baiu Front. Scientific Online Letters on the Atmosphere, 2013, 9, 187-190.	0.6	8
41	Wavelength Dependence of Refractive Index of Secondary Organic Aerosols Generated during the Ozonolysis and Photooxidation of Î±-Pinene. Scientific Online Letters on the Atmosphere, 2012, 8, 119-123.	0.6	32
42	Observation of carbon and oxygen isotopic compositions of CO2 at an urban site in Nagoya using Mid-IR laser absorption spectroscopy. Atmospheric Environment, 2011, 45, 1168-1174.	1.9	36
43	Comparison of laser-induced fluorescence and chemiluminescence measurements of NO2 at an urban site. Atmospheric Environment, 2011, 45, 6233-6240.	1.9	21
44	Characterization of Aerosol Particles in the Tokyo Metropolitan Area using Two Different Particle Mass Spectrometers. Aerosol Science and Technology, 2011, 45, 315-326.	1.5	11
45	PLPâ€“LIF study of the reactions of chlorine atoms with C2H2, C2H4, and C3H6 in 2â€“100 Torr of N2 diluent at 295 K. Chemical Physics Letters, 2010, 494, 174-178.	1.2	4
46	Measurements of aerosol optical properties in central Tokyo during summertime using cavity ring-down spectroscopy: Comparison with conventional techniques. Atmospheric Environment, 2010, 44, 3034-3042.	1.9	31
47	Laboratory studies on optical properties of secondary organic aerosols generated during the photooxidation of toluene and the ozonolysis of Î±â€pinene. Journal of Geophysical Research, 2010, 115, .	3.3	130
48	Fluorescence detection of atmospheric nitrogen dioxide using a blue light-emitting diode as an excitation source. Applied Optics, 2010, 49, 3762.	2.1	6
49	Size-dependent correction factors for absorption measurements using filter-based photometers: PSAP and COSMOS. Journal of Aerosol Science, 2010, 41, 333-343.	1.8	57
50	Radiative transfer modeling of filter-based measurements of light absorption by particles: Importance of particle size dependent penetration depth. Journal of Aerosol Science, 2010, 41, 401-412.	1.8	29
51	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.	1.5	113
52	ZhangetÂal.Reply:. Physical Review Letters, 2009, 103, .	2.9	6
53	Atmospheric Chemistry of BrO Radicals: Kinetics of the Reaction with C₂H₅O₂ Radicals at 233â^'333 K. Journal of Physical Chemistry A, 2009, 113, 10231-10237.	1.1	8
54	Buffer-gas Pressure Broadening for the Third Overtone Band of NO Measured with Continuous-wave Cavity Ring-down Spectroscopy. Chemistry Letters, 2009, 38, 1000-1001.	0.7	2

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55	Optical Properties and Chemical Compositions of Iodine-Containing Aerosols Produced from the Atmospheric Photolysis of Methylene Iodide in the Presence of Ozone. Bulletin of the Chemical Society of Japan, 2009, 82, 910-913.	2.0	5
56	Thermal decomposition rate of N₂O₅ measured by cavity ringâ€down spectroscopy. International Journal of Chemical Kinetics, 2008, 40, 679-684.	1.0	10
57	Nighttime measurements of ambient N2O5, NO2, NO and O3 in a sub-urban area, Toyokawa, Japan. Atmospheric Environment, 2008, 42, 1995-2006.	1.9	28
58	Kinetics and Mechanism of the Reaction of Chlorine Atoms with n-Pentanal. Journal of Physical Chemistry A, 2008, 112, 1741-1746.	1.1	7
59	Approach to Thermal Equilibrium in Atomic Collisions. Physical Review Letters, 2008, 100, 103001.	2.9	18
60	Effective interaction energy of water dimer at room temperature: An experimental and theoretical study. Journal of Chemical Physics, 2007, 127, 134302.	1.2	19
61	A Gas-Phase Kinetic Study of the Reaction between Bromine Monoxide and Methylperoxy Radicals at Atmospheric Temperatures. Journal of Physical Chemistry A, 2007, 111, 3342-3348.	1.1	16
62	Atmospheric Chemistry of CF3CHCH2 and C4F9CHCH2:â€‰ Products of the Gas-Phase Reactions with Cl Atoms and OH Radicals. Journal of Physical Chemistry A, 2007, 111, 909-915.	1.1	35
63	Vacuum ultraviolet laser-induced fluorescence kinetic study of the reactions of Cl atoms with fluoroalkenes (CxF2x+1CHï£¾CH2,x = 1,2,4, 6, and 8) at low pressures. International Journal of Chemical Kinetics, 2007, 39, 328-332.	1.0	7
64	Fiber-optic ring-down spectroscopy using a tunable picosecond gain-switched diode laser. Applied Physics B: Lasers and Optics, 2007, 88, 131-135.	1.1	33
65	Measurements of the 3Î½ 3 band of 14N15N16O and 15N14N16O using continuous-wave cavity ring-down spectroscopy. Applied Physics B: Lasers and Optics, 2007, 88, 137-140.	1.1	10
66	Buffer-gas pressure broadening for the (0003)â†(0000) band of N2O measured with continuous-wave cavity ring-down spectroscopy. Chemical Physics, 2007, 334, 196-203.	0.9	16
67	Laboratory Study of O(1S) Formation Process in the Photolysis of O3 and its Atmospheric Implications. Journal of Atmospheric Chemistry, 2006, 53, 107-122.	1.4	4
68	Atmospheric chemistry of CxF2x+1CHCH2 (x=1, 2, 4, 6, and 8): Kinetics of gas-phase reactions with Cl atoms, OH radicals, and O3. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 176, 124-128.	2.0	45
69	Quantum yield for hydrogen atom formation from H2O2 photolysis in the range 193-240 nm. International Journal of Chemical Kinetics, 2005, 37, 751-754.	1.0	4
70	Atmospheric Chemistry of CH3CHF2(HFC-152a):Â Kinetics, Mechanisms, and Products of Cl Atom- and OH Radical-Initiated Oxidation in the Presence and Absence of NOx. Journal of Physical Chemistry A, 2005, 109, 9061-9069.	1.1	16
71	N(4S) Formation following the 193.3-nm ArF Laser Irradiation of NO and NO2and Its Application to Kinetic Studies of N(4S) Reactions with NO and NO2. Journal of Physical Chemistry A, 2005, 109, 10897-10902.	1.1	10
72	Nitrate Radical Quantum Yield from Peroxyacetyl Nitrate Photolysis. Journal of Physical Chemistry A, 2005, 109, 2552-2558.	1.1	8

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73	Thermalization cross sections of suprathermal N(4S) atoms in collisions with atmospheric molecules. Geophysical Research Letters, 2005, 32, .	1.5	7
74	Reaction kinetics of O(1S) atom with atmospheric molecules. Chemical Physics Letters, 2004, 398, 163-167.	1.2	2
75	Hydrogen Atom Formation in the Photolysis of Acetone at 193 nmâ€. Journal of Physical Chemistry A, 2004, 108, 8002-8008.	1.1	12
76	Vacuum Ultraviolet Laser-Induced Fluorescence Detection of O(1S) Atom Produced in the 193 nm Photolysis of Ozone. Journal of Physical Chemistry A, 2003, 107, 9368-9373.	1.1	9
77	Quantum yield for N(4S) production in the ultraviolet photolysis of N2O. Journal of Geophysical Research, 2003, 108, .	3.3	8
78	Atmospheric lifetime of SF5CF3. Geophysical Research Letters, 2002, 29, 7-1-7-4.	1.5	12