

# Yasuhiro Sadanaga

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,156  
citations

394421

19  
h-index

414414

32  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1348  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a measurement system of OH reactivity in the atmosphere by using a laser-induced pump and probe technique. <i>Review of Scientific Instruments</i> , 2004, 75, 2648-2655.	1.3	115
2	Measurement of total OH reactivity by laser-induced pump and probe technique—comprehensive observations in the urban atmosphere of Tokyo. <i>Atmospheric Environment</i> , 2006, 40, 7869-7881.	4.1	86
3	Measurements of OH Reactivity and Photochemical Ozone Production in the Urban Atmosphere. <i>Environmental Science &amp; Technology</i> , 2005, 39, 8847-8852.	10.0	81
4	Weekday/weekend difference of ozone and its precursors in urban areas of Japan, focusing on nitrogen oxides and hydrocarbons. <i>Atmospheric Environment</i> , 2008, 42, 4708-4723.	4.1	70
5	Development of a PTR-TOFMS instrument for real-time measurements of volatile organic compounds in air. <i>International Journal of Mass Spectrometry</i> , 2007, 263, 1-11.	1.5	60
6	Photochemical reactions in the urban air: Recent understandings of radical chemistry. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2003, 4, 85-104.	11.6	54
7	Light absorption and morphological properties of soot-containing aerosols observed at an East Asian outflow site, Noto Peninsula, Japan. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2525-2541.	4.9	54
8	Behavior of OH and HO <sub>2</sub> radicals during the Observations at a Remote Island of Okinawa (ORION99) field campaign: 1. Observation using a laser-induced fluorescence instrument. <i>Journal of Geophysical Research</i> , 2001, 106, 24197-24208.	3.3	47
9	Development of a Selective Light-Emitting Diode Photolytic NO <sub>2</sub> Converter for Continuously Measuring NO <sub>2</sub> in the Atmosphere. <i>Analytical Chemistry</i> , 2010, 82, 9234-9239.	6.5	38
10	Analyses of the Ozone Weekend Effect in Tokyo, Japan: Regime of Oxidant (O <sub>3</sub> + NO <sub>2</sub> ) Production. <i>Aerosol and Air Quality Research</i> , 2012, 12, 161-168.	2.1	38
11	Transport and transformation of total reactive nitrogen over the East China Sea. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	37
12	NHM-Chem, the Japan Meteorological Agency's Regional Meteorology “Chemistry Model: Model Evaluations toward the Consistent Predictions of the Chemical, Physical, and Optical Properties of Aerosols. <i>Journal of the Meteorological Society of Japan</i> , 2019, 97, 337-374.	1.8	37
13	Development of a measurement system of peroxy radicals using a chemical amplification/laser-induced fluorescence technique. <i>Review of Scientific Instruments</i> , 2004, 75, 864-872.	1.3	36
14	Aerosol Liquid Water Promotes the Formation of Water-Soluble Organic Nitrogen in Submicrometer Aerosols in a Suburban Forest. <i>Environmental Science &amp; Technology</i> , 2020, 54, 1406-1414.	10.0	33
15	A novel discharge source of hydronium ions for proton transfer reaction ionization: design, characterization, and performance. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1025-1029.	1.5	29
16	Aerial Observation of Aerosols Transported from East Asia—Chemical Composition of Aerosols and Layered Structure of an Air Mass over the East China Sea. <i>Aerosol and Air Quality Research</i> , 2011, 11, 497-507.	2.1	29
17	Examination on photostationary state of NO <sub>x</sub> in the urban atmosphere in Japan. <i>Atmospheric Environment</i> , 2006, 40, 3230-3239.	4.1	24
18	Total OH reactivity measurement in a BVOC dominated temperate forest during a summer campaign, 2014. <i>Atmospheric Environment</i> , 2016, 131, 41-54.	4.1	21

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19	A Gaseous Nitric Acid Analyzer for the Remote Atmosphere Based on the Scrubber Difference/NO-Ozone Chemiluminescence Method. <i>Analytical Sciences</i> , 2008, 24, 967-971.	1.6	20
20	Validation of in situ Measurements of Atmospheric Nitrous Acid Using Incoherent Broadband Cavity-enhanced Absorption Spectroscopy. <i>Analytical Sciences</i> , 2017, 33, 519-523.	1.6	20
21	Regional variability in black carbon and carbon monoxide ratio from long-term observations over East Asia: assessment of representativeness for black carbon (BC) and carbon monoxide (CO) emission inventories. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 83-98.	4.9	20
22	Transboundary Secondary Organic Aerosol in Western Japan Indicated by the $\hat{I}^{13}C$ of Water-Soluble Organic Carbon and the $m/z$ 44 Signal in Organic Aerosol Mass Spectra. <i>Environmental Science &amp; Technology</i> , 2014, 48, 6273-6281.	10.0	19
23	Thermal dissociation cavity attenuated phase shift spectroscopy for continuous measurement of total peroxy and organic nitrates in the clean atmosphere. <i>Review of Scientific Instruments</i> , 2016, 87, 074102.	1.3	18
24	Contributions of vehicular emissions and secondary formation to nitrous acid concentrations in ambient urban air in Tokyo in the winter. <i>Science of the Total Environment</i> , 2017, 592, 178-186.	8.0	17
25	Relative and Absolute Sensitivity Analysis on Ozone Production in Tsukuba, a City in Japan. <i>Environmental Science &amp; Technology</i> , 2019, 53, 13629-13635.	10.0	17
26	Behavior of total peroxy and total organic nitrate concentrations at Suzu on the Noto Peninsula, Japan: Long-range transport and local photochemical production. <i>Atmospheric Environment</i> , 2019, 196, 20-26.	4.1	16
27	Kinetics and impacting factors of HO <sub>2</sub> uptake onto submicron atmospheric aerosols during the 2019 Air QUALity Study (AQUAS) in Yokohama, Japan. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12243-12260.	4.9	16
28	Investigation of the wet removal rate of black carbon in East Asia: validation of a below- and in-cloud wet removal scheme in FLEXible PARTicle (FLEXPART) model v10.4. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13655-13670.	4.9	13
29	Quantitative reduction of particulate nitrate to nitric oxide by a molybdenum catalyst: Implications for NO <sub>y</sub> measurements in the marine boundary layer. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	10
30	Structural analysis of aerosol particles by microscopic observation using a time-of-flight secondary ion mass spectrometer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6726-6737.	3.3	10
31	Photochemical age of air pollutants, ozone, and secondary organic aerosol in transboundary air observed on Fukue Island, Nagasaki, Japan. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4555-4568.	4.9	9
32	Total hydroxyl radical reactivity measurements in a suburban area during AQUAS's Tsukuba campaign in summer 2017. <i>Science of the Total Environment</i> , 2020, 740, 139897.	8.0	9
33	Aerial observation of nitrogen compounds over the East China Sea in 2009 and 2010. <i>Atmospheric Environment</i> , 2014, 97, 462-470.	4.1	8
34	Concentration variations of total reactive nitrogen and total nitrate during transport to Fukue Island and to Cape Hedo, Japan in the marine boundary layer. <i>Atmospheric Environment</i> , 2014, 97, 471-478.	4.1	7
35	Direct measurement system of nitrogen dioxide in the atmosphere using a blue light-emitting diode induced fluorescence technique. <i>Review of Scientific Instruments</i> , 2014, 85, 064101.	1.3	6
36	New System for Measuring the Photochemical Ozone Production Rate in the Atmosphere. <i>Environmental Science &amp; Technology</i> , 2017, 51, 2871-2878.	10.0	6

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37	Transboundary secondary organic aerosol in western Japan: An observed limitation of the f44 oxidation indicator. <i>Atmospheric Environment</i> , 2015, 120, 71-75.	4.1	5
38	Evaluation of Photochemical Pollution during Transport of Air Pollutants in Spring over the East China Sea. <i>Asian Journal of Atmospheric Environment</i> , 2015, 9, 237-246.	1.1	5
39	Development of an Analytical Method for the Detection of NO <sub>x</sub> and Its Application to the Atmospheric Analysis at a Mountain Site. <i>Bunseki Kagaku</i> , 2018, 67, 333-340.	0.2	3
40	Transboundary Transport of Nitrogen Oxides from the Asian Continent to Fukue Island, Japan: Analyses of Long-Range Transport of Nitrogen Compounds. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2981-2987.	2.1	3
41	Development of highly sensitive optical nanoantenna for bacterial detection. <i>Analyst</i> , 2022, 147, 2355-2360.	3.5	3
42	A quantitative understanding of total OH reactivity and ozone production in a coastal industrial area during the Yokohama air quality study (AQUAS) campaign of summer 2019. <i>Atmospheric Environment</i> , 2021, 267, 118754.	4.1	2
43	Quantification of Enterohemorrhagic <i>Escherichia coli</i> via Optical Nanoantenna and Temperature-Responsive Artificial Antibodies. <i>Analytical Sciences</i> , 2021, 37, 1597-1601.	1.6	2
44	Variations in gaseous nitric acid concentrations at Tottori, Japan: Long-range transport from the Asian continent and local production. <i>Atmospheric Environment</i> , 2022, 274, 118988.	4.1	1
45	Impacts of missing OH reactivity and aerosol uptake of HO <sub>2</sub> radicals on tropospheric O <sub>3</sub> production during the AQUAS-Kyoto summer campaign in 2018. <i>Atmospheric Environment</i> , 2022, 281, 119130.	4.1	1