

# Tomoaki Okuda

## List of Publications by Year in descending order

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70  
papers

2,854  
citations

201674

27  
h-index

182427

51  
g-index

70  
all docs

70  
docs citations

70  
times ranked

3098  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic composition of TSP and PM <sub>2.5</sub> during dust storms and air pollution episodes at Xi'an, China. <i>Atmospheric Environment</i> , 2009, 43, 2911-2918.	4.1	300
2	Sulfate Aerosol as a Potential Transport Medium of Radiocesium from the Fukushima Nuclear Accident. <i>Environmental Science &amp; Technology</i> , 2012, 46, 5720-5726.	10.0	208
3	Characteristics of carbonaceous aerosols in Beijing, China. <i>Chemosphere</i> , 2005, 60, 355-364.	8.2	141
4	Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, 1560-1570.	1.9	140
5	Polycyclic Aromatic Hydrocarbon (PAHs) and Hopanes in Stranded Tar-balls on the Coasts of Peninsular Malaysia: Applications of Biomarkers for Identifying Sources of Oil Pollution. <i>Marine Pollution Bulletin</i> , 2001, 42, 1357-1366.	5.0	139
6	Trends in hazardous trace metal concentrations in aerosols collected in Beijing, China from 2001 to 2006. <i>Chemosphere</i> , 2008, 72, 917-924.	8.2	129
7	Daily concentrations of trace metals in aerosols in Beijing, China, determined by using inductively coupled plasma mass spectrometry equipped with laser ablation analysis, and source identification of aerosols. <i>Science of the Total Environment</i> , 2004, 330, 145-158.	8.0	125
8	Source identification of Malaysian atmospheric polycyclic aromatic hydrocarbons nearby forest fires using molecular and isotopic compositions. <i>Atmospheric Environment</i> , 2002, 36, 611-618.	4.1	119
9	Measurement and source identification of polycyclic aromatic hydrocarbons (PAHs) in the aerosol in Xi'an, China, by using automated column chromatography and applying positive matrix factorization (PMF). <i>Science of the Total Environment</i> , 2010, 408, 1909-1914.	8.0	119
10	Polycyclic aromatic hydrocarbons (PAHs) in the aerosol in Beijing, China, measured by aminopropylsilane chemically-bonded stationary-phase column chromatography and HPLC/fluorescence detection. <i>Chemosphere</i> , 2006, 65, 427-435.	8.2	88
11	Impact of long-range transport of aerosols on the PM <sub>2.5</sub> composition at a major metropolitan area in the northern Kyushu area of Japan. <i>Atmospheric Environment</i> , 2014, 97, 416-425.	4.1	79
12	Origin of atmospheric polycyclic aromatic hydrocarbons (PAHs) in Chinese cities solved by compound-specific stable carbon isotopic analyses. <i>Organic Geochemistry</i> , 2002, 33, 1737-1745.	1.8	72
13	The impact of the pollution control measures for the 2008 Beijing Olympic Games on the chemical composition of aerosols. <i>Atmospheric Environment</i> , 2011, 45, 2789-2794.	4.1	68
14	Long-term trend of chemical constituents in precipitation in Tokyo metropolitan area, Japan, from 1990 to 2002. <i>Science of the Total Environment</i> , 2005, 339, 127-141.	8.0	60
15	Five-year record of atmospheric precipitation chemistry in urban Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2025-2035.	4.9	55
16	Source identification of nickel in TSP and PM <sub>2.5</sub> in Tokyo, Japan. <i>Atmospheric Environment</i> , 2007, 41, 7642-7648.	4.1	54
17	PM <sub>2.5</sub> -induced airway inflammation and hyperresponsiveness in NC/Nga mice. <i>Environmental Toxicology</i> , 2017, 32, 1047-1054.	4.0	49
18	Effects of a Platinum-Cerium Bimetallic Fuel Additive on the Chemical Composition of Diesel Engine Exhaust Particles. <i>Energy &amp; Fuels</i> , 2009, 23, 4974-4980.	5.1	48

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19	Improved methods for elemental analysis of atmospheric aerosols for evaluating human health impacts of aerosols in East Asia. <i>Atmospheric Environment</i> , 2014, 97, 552-555.	4.1	48
20	Atmospheric humidity and particle charging state on agglomeration of aerosol particles. <i>Atmospheric Environment</i> , 2019, 197, 141-149.	4.1	40
21	Exposure to particulate matter upregulates ACE2 and TMPRSS2 expression in the murine lung. <i>Environmental Research</i> , 2021, 195, 110722.	7.5	37
22	Long-term observation of trace metal concentration in aerosols at a remote island, Rishiri, Japan by using inductively coupled plasma mass spectrometry equipped with laser ablation. <i>Water, Air, and Soil Pollution</i> , 2006, 174, 3-17.	2.4	36
23	Rapid and Simple Determination of Multi-Elements in Aerosol Samples Collected on Quartz Fiber Filters by Using EDXRF Coupled with Fundamental Parameter Quantification Technique. <i>Aerosol and Air Quality Research</i> , 2013, 13, 1864-1876.	2.1	34
24	Development of a High-Volume PM2.5 Particle Sampler Using Impactor and Cyclone Techniques. <i>Aerosol and Air Quality Research</i> , 2015, 15, 759-767.	2.1	32
25	Sensitivity of hazardous air pollutant emissions to the combustion of blends of petroleum diesel and biodiesel fuel. <i>Atmospheric Environment</i> , 2012, 50, 307-313.	4.1	31
26	Vertical distributions and $\delta^{13}C$ isotopic compositions of PAHs in Chidorigafuchi Moat sediment, Japan. <i>Organic Geochemistry</i> , 2002, 33, 843-848.	1.8	29
27	Mass concentration and mineralogical characteristics of aerosol particles collected at Dunhuang during ACE-Asia. <i>Advances in Atmospheric Sciences</i> , 2006, 23, 291-298.	4.3	28
28	Thermodynamic Behavior of Stable Carbon Isotopic Compositions of Individual Polycyclic Aromatic Hydrocarbons Derived from Automobiles. <i>Polycyclic Aromatic Compounds</i> , 2003, 23, 219-236.	2.6	27
29	Seasonal Trends of Atmospheric PAHs in Five Asian Megacities and Source Detection Using Suitable Biomarkers. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2247-2262.	2.1	27
30	Measurement of the specific surface area and particle size distribution of atmospheric aerosol reference materials. <i>Atmospheric Environment</i> , 2013, 75, 1-5.	4.1	26
31	Ambient fine and coarse particles in Japan affect nasal and bronchial epithelial cells differently and elicit varying immune response. <i>Environmental Pollution</i> , 2018, 242, 1693-1701.	7.5	25
32	A Case Study of PM2.5 Characterization in Bangi, Selangor, Malaysia during the Southwest Monsoon Season. <i>Aerosol and Air Quality Research</i> , 2016, 16, 2685-2691.	2.1	24
33	Exploring CO pollution episodes observed at Rishiri Island by chemical weather simulations and AIRS satellite measurements: long-range transport of burning plumes and implications for emissions inventories. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 394.	1.6	23
34	COVID-19 risk assessment at the opening ceremony of the Tokyo 2020 Olympic Games. <i>Microbial Risk Analysis</i> , 2021, 19, 100162.	2.3	20
35	Involvement of PM2.5-bound protein and metals in PM2.5-induced allergic airway inflammation in mice. <i>Inhalation Toxicology</i> , 2018, 30, 498-508.	1.6	19
36	Compound-specific radiocarbon analysis of polycyclic aromatic hydrocarbons (PAHs) in sediments from an urban reservoir. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2004, 223-224, 545-554.	1.4	18

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37	Air Pollution and Urban Air Quality Management in Indonesia. <i>Clean - Soil, Air, Water</i> , 2008, 36, 466-475.	1.1	18
38	Source apportionment of chlorinated polycyclic aromatic hydrocarbons associated with ambient particles in a Japanese megacity. <i>Scientific Reports</i> , 2016, 6, 38358.	3.3	18
39	Separation of PAHs in Environmental Samples by Use of Solid-Phase Extraction System for Carbon Isotope Analysis.. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2000, 48, 387-394.	0.1	18
40	Chemical speciation of water-soluble ionic components in PM2.5 derived from peatland fires in Sumatra Island. <i>Atmospheric Pollution Research</i> , 2019, 10, 1260-1266.	3.8	17
41	Sensitivity of Diesel Particulate Material Emissions and Composition to Blends of Petroleum Diesel and Biodiesel Fuel. <i>Aerosol Science and Technology</i> , 2012, 46, 1109-1118.	3.1	16
42	Inorganic Chemical Characterization of Aerosols in Four Asian Mega-Cities. <i>Aerosol and Air Quality Research</i> , 2013, 13, 436-449.	2.1	16
43	Weak size dependence of resuspended radiocesium adsorbed on soil particles collected after the Fukushima nuclear accident. <i>Journal of Environmental Radioactivity</i> , 2017, 172, 122-129.	1.7	15
44	Modeling Transition Metals in East Asia and Japan and Its Emission Sources. <i>GeoHealth</i> , 2020, 4, e2020GH000259.	4.0	15
45	Effects of Ambient PM2.5 Collected Using Cyclonic Separator from Asian Cities on Human Airway Epithelial Cells. <i>Aerosol and Air Quality Research</i> , 2019, 19, 1808-1819.	2.1	14
46	Atmospheric impacts of black carbon emission reductions through the strategic use of biodiesel in California. <i>Science of the Total Environment</i> , 2015, 538, 412-422.	8.0	13
47	PM2.5 collected using cyclonic separation causes stronger biological responses than that collected using a conventional filtration method. <i>Environmental Research</i> , 2021, 198, 110490.	7.5	13
48	The impact of volcanic gases from Miyake island on the chemical constituents in precipitation in the Tokyo metropolitan area. <i>Science of the Total Environment</i> , 2005, 341, 185-197.	8.0	12
49	Theoretical and field evaluation of a PM2.5 high-volume impactor inlet design. <i>Atmospheric Environment</i> , 2021, 244, 117811.	4.1	12
50	Development of a High-Volume Simultaneous Sampler for Fine and Coarse Particles using Virtual Impactor and Cyclone Techniques. <i>Asian Journal of Atmospheric Environment</i> , 2018, 12, 78-86.	1.1	11
51	Involvement of polycyclic aromatic hydrocarbons and endotoxin in macrophage expression of interleukin-33 induced by exposure to particulate matter. <i>Journal of Toxicological Sciences</i> , 2022, 47, 201-210.	1.5	11
52	Molecular composition and compound-specific stable carbon isotope ratio of polycyclic aromatic hydrocarbons (PAHs) in the atmosphere in suburban areas. <i>Geochemical Journal</i> , 2004, 38, 89-100.	1.0	10
53	On-line Measurement of the Surface Area Concentration of Aerosols in Yokohama, Japan, using the Diffusion Charging Method. <i>Asian Journal of Atmospheric Environment</i> , 2016, 10, 1-12.	1.1	10
54	An analysis of long-term changes in airborne toxic metals in South Korea's two largest cities from 1991 to 2004. <i>Environmental Science and Pollution Research</i> , 2009, 16, 565-572.	5.3	9

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55	Simulation of the transition metal-based cumulative oxidative potential in East Asia and its emission sources in Japan. <i>Scientific Reports</i> , 2021, 11, 6550.	3.3	9
56	Contribution of Physical and Chemical Properties to Dithiothreitol-Measured Oxidative Potentials of Atmospheric Aerosol Particles at Urban and Rural Sites in Japan. <i>Atmosphere</i> , 2022, 13, 319.	2.3	9
57	Persulfate Wet Oxidation Method for the Determination of Total Phosphorus in Atmospheric Aerosols and Its Application for a Year-round Observation in Beijing. <i>Asian Journal of Atmospheric Environment</i> , 2013, 7, 169-175.	1.1	8
58	Preliminary Study on the Measurement of the Electrostatic Charging State of PM <sub>2.5</sub> Collected on Filter Media. <i>Asian Journal of Atmospheric Environment</i> , 2015, 9, 137-145.	1.1	8
59	Improvement of a High-volume Aerosol Particle Sampler for Collecting Submicron Particles through the Combined Use of a Cyclone with a Smoothened Inner Wall and a Circular Cone Attachment. <i>Asian Journal of Atmospheric Environment</i> , 2017, 11, 131-137.	1.1	8
60	Seasonal variation in atmospheric particle electrostatic charging states determined using a parallel electrode plate device. <i>Atmospheric Environment</i> , 2019, 203, 62-69.	4.1	7
61	Charging states on atmospheric aerosol particles affected by meteorological conditions. <i>Particuology</i> , 2020, 52, 1-9.	3.6	7
62	Monthly and Diurnal Variation of the Concentrations of Aerosol Surface Area in Fukuoka, Japan, Measured by Diffusion Charging Method. <i>Atmosphere</i> , 2017, 8, 114.	2.3	6
63	Lung deposited surface area of atmospheric aerosol particles at three observatories in Japan. <i>Atmospheric Environment</i> , 2021, 262, 118597.	4.1	6
64	Chemokine expression in human 3-dimensional cultured epidermis exposed to PM <sub>2.5</sub> collected by cyclonic separation. <i>Toxicological Research</i> , 2023, 39, 1-13.	2.1	6
65	Factors Controlling the Variation of Aerosol Surface Area Concentrations Measured by a Diffusion Charger in Fukuoka, Japan. <i>Atmosphere</i> , 2016, 7, 33.	2.3	4
66	Effects of ambient particulate matter on a reconstructed human corneal epithelium model. <i>Scientific Reports</i> , 2021, 11, 3417.	3.3	4
67	Characterization of Elemental Composition and Valence State of Cyclone-collected Aerosol Particles Using EDXRF and XAFS at Three Sites in Japan. <i>Asian Journal of Atmospheric Environment</i> , 2022, 16, 40-58.	1.1	3
68	Numerical simulation of parallel-plate particle separator for estimation of charge distribution of PM <sub>2.5</sub> . <i>Aerosol Science and Technology</i> , 2019, 53, 394-405.	3.1	2
69	Development of Automated Column Chromatography System and Its Application to the Determination of Polycyclic Aromatic Hydrocarbons in Suspended Particulate Matter. <i>Bunseki Kagaku</i> , 2009, 58, 287-292.	0.2	1
70	Development of A Low-Cost Simultaneous Low Volume Air Sampler Controlled with Sonic Venturi. <i>Asian Journal of Atmospheric Environment</i> , 2021, 15, 52-67.	1.1	1