

# Susumu Tohno

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4280496/publications.pdf>

Version: 2024-02-01

103  
papers

1,922  
citations

236612

25  
h-index

315357

38  
g-index

103  
all docs

103  
docs citations

103  
times ranked

2211  
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimates of Embodied Global Energy and Air-Emission Intensities of Japanese Products for Building a Japanese Input–Output Life Cycle Assessment Database with a Global System Boundary. <i>Environmental Science &amp; Technology</i> , 2012, 46, 9146-9154.	4.6	79
2	An estimation of energy and GHG emission intensity caused by energy consumption in Korea: An energy IO approach. <i>Applied Energy</i> , 2009, 86, 1902-1914.	5.1	72
3	Changes in the Carbon Footprint of Japanese Households in an Aging Society. <i>Environmental Science &amp; Technology</i> , 2014, 48, 6069-6080.	4.6	72
4	Characteristics of carbonaceous aerosols emitted from peatland fire in Riau, Sumatra, Indonesia. <i>Atmospheric Environment</i> , 2014, 87, 164-169.	1.9	67
5	Long-term characterization of carbonaceous aerosol in Uji, Japan. <i>Atmospheric Environment</i> , 2002, 36, 1267-1275.	1.9	66
6	Indoor PM <sub>2.5</sub> Characteristics and CO Concentration Related to Water-Based and Oil-Based Cooking Emissions Using a Gas Stove. <i>Aerosol and Air Quality Research</i> , 2011, 11, 401-411.	0.9	64
7	Production-based emissions, consumption-based emissions and consumption-based health impacts of PM <sub>2.5</sub> carbonaceous aerosols in Asia. <i>Atmospheric Environment</i> , 2014, 97, 406-415.	1.9	59
8	Distribution, sources and potential health risks of polycyclic aromatic hydrocarbons (PAHs) in PM <sub>2.5</sub> collected during different monsoon seasons and haze episode in Kuala Lumpur. <i>Chemosphere</i> , 2019, 219, 1-14.	4.2	59
9	Compilation and Application of Japanese Inventories for Energy Consumption and Air Pollutant Emissions Using Input–Output Tables. <i>Environmental Science &amp; Technology</i> , 2003, 37, 2005-2015.	4.6	58
10	Life-cycle analysis of charging infrastructure for electric vehicles. <i>Applied Energy</i> , 2001, 70, 251-265.	5.1	55
11	Analysis of secondary organic aerosols from ozonolysis of isoprene by proton transfer reaction mass spectrometry. <i>Atmospheric Environment</i> , 2014, 97, 397-405.	1.9	53
12	Properties of individual Asian dust storm particles collected at Kosan, Korea during ACE-Asia. <i>Atmospheric Environment</i> , 2004, 38, 1133-1143.	1.9	52
13	Wavelength-dependent aerosol single-scattering albedo: Measurements and model calculations for a coastal site near the Sea of Japan during ACE-Asia. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	44
14	Characteristics of carbonaceous aerosols emitted from peatland fire in Riau, Sumatra, Indonesia (2): Identification of organic compounds. <i>Atmospheric Environment</i> , 2015, 110, 1-7.	1.9	39
15	Comprehensive assessment of PM <sub>2.5</sub> physicochemical properties during the Southeast Asia dry season (southwest monsoon). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,589.	1.2	39
16	Affluent countries inflict inequitable mortality and economic loss on Asia via PM <sub>2.5</sub> emissions. <i>Environment International</i> , 2020, 134, 105238.	4.8	36
17	Consumption in the G20 nations causes particulate air pollution resulting in two million premature deaths annually. <i>Nature Communications</i> , 2021, 12, 6286.	5.8	36
18	Annual variations of carbonaceous PM <sub>2.5</sub> in Malaysia: influence by Indonesian peatland fires. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13319-13329.	1.9	35

#	ARTICLE	IF	CITATIONS
19	Trends in Japanese households' critical-metals material footprints. <i>Ecological Economics</i> , 2015, 119, 118-126.	2.9	32
20	Characterization of the winter atmospheric aerosols in Kyoto and Seoul using PIXE, EAS and IC. <i>Atmospheric Environment</i> , 2001, 35, 747-752.	1.9	30
21	Effect of OH radical scavengers on secondary organic aerosol formation from reactions of isoprene with ozone. <i>Atmospheric Environment</i> , 2013, 79, 147-154.	1.9	30
22	A case study of the size-resolved individual particles collected at a ground-based site on the west coast of Japan during an Asian dust storm event. <i>Atmospheric Environment</i> , 2005, 39, 739-747.	1.9	29
23	Characterization of Economic Requirements for a "Carbon-Debt-Free Country". <i>Environmental Science &amp; Technology</i> , 2012, 46, 155-163.	4.6	29
24	Quantitative assessment of source contributions to PM2.5 on the west coast of Peninsular Malaysia to determine the burden of Indonesian peatland fire. <i>Atmospheric Environment</i> , 2017, 171, 111-117.	1.9	28
25	Effects of electric vehicles (EV) on environmental loads with consideration of regional differences of electric power generation and charging characteristic of EV users in Japan. <i>Applied Energy</i> , 2002, 71, 111-125.	5.1	27
26	The nature of individual solid particles retained in size-resolved raindrops fallen in Asian dust storm event during ACE-Asia. <i>Atmospheric Environment</i> , 2004, 38, 2951-2964.	1.9	26
27	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.	3.7	25
28	Fertility-rate recovery and double-income policies require solving the carbon gap under the Paris Agreement. <i>Resources, Conservation and Recycling</i> , 2018, 133, 385-394.	5.3	24
29	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.	0.9	24
30	Characteristics of indoor air pollution in rural mountainous and rural coastal communities in Indonesia. <i>Atmospheric Environment</i> , 2014, 82, 343-350.	1.9	23
31	Isoprene Emission Characteristics of <i>Quercus serrata</i> in a Deciduous Broad-Leaved Forest. <i>J Agricultural Meteorology</i> , 2008, 64, 49-60.	0.8	21
32	Production of highly concentrated nanophase Ag dispersoids without aggregation. <i>Journal of Aerosol Science</i> , 1993, 24, 339-347.	1.8	19
33	Reactivity between PbSO4 and CaCO3 particles relevant to the modification of mineral particles and chemical forms of Pb in particles sampled at two remote sites during an Asian dust event. <i>Atmospheric Environment</i> , 2009, 43, 2550-2560.	1.9	19
34	Indoor particle counts during Asian dust events under everyday conditions at an apartment in Japan. <i>Environmental Health and Preventive Medicine</i> , 2014, 19, 81-88.	1.4	19
35	Nexus between economy-wide metal inputs and the deterioration of sustainable development goals. <i>Resources, Conservation and Recycling</i> , 2019, 149, 12-19.	5.3	19
36	Angular scattering of the Gobi Desert aerosol and its influence on radiative forcing. <i>Journal of Aerosol Science</i> , 2006, 37, 1287-1302.	1.8	18

#	ARTICLE	IF	CITATIONS
37	Relationship between fraction of backscattered light and asymmetry parameter. <i>Journal of Aerosol Science</i> , 2016, 91, 43-53.	1.8	18
38	Economic and social determinants of global physical flows of critical metals. <i>Resources Policy</i> , 2017, 52, 107-113.	4.2	18
39	Properties of the size-resolved and individual cloud droplets collected in western Japan during the Asian dust storm event. <i>Atmospheric Environment</i> , 2004, 38, 4519-4529.	1.9	17
40	A case study of the single and size-resolved particles in roadway tunnel in Seoul, Korea. <i>Atmospheric Environment</i> , 2004, 38, 6673-6677.	1.9	17
41	Socio-technological impact analysis using an energy IO approach to GHG emissions issues in South Korea. <i>Applied Energy</i> , 2011, 88, 3747-3758.	5.1	17
42	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.	1.8	17
43	A New Approach for Characterization of Single Raindrops. <i>Water, Air, and Soil Pollution</i> , 2001, 130, 1601-1606.	1.1	16
44	Synthesis and characterization of TiO <sub>2</sub> powders by electrospray pyrolysis method. <i>Materials Research Bulletin</i> , 2012, 47, 889-895.	2.7	16
45	Quantifying lifestyle based social equity implications for national sustainable development policy. <i>Environmental Research Letters</i> , 2020, 15, 084044.	2.2	16
46	International experience on incentive program in support of fuel economy standards and labelling for motor vehicle: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 25, 18-33.	8.2	15
47	An Aerosol Climatology at Kyoto: Observed Local Radiative Forcing and Columnar Optical Properties. <i>Journal of Applied Meteorology and Climatology</i> , 2003, 42, 841-850.	1.7	15
48	Comparison between <i>Jatropha curcas</i> seed stove and woodstove: Performance and effect on indoor air quality. <i>Energy for Sustainable Development</i> , 2013, 17, 337-346.	2.0	14
49	Influence of income difference on carbon and material footprints for critical metals: the case of Japanese households. <i>Journal of Economic Structures</i> , 2016, 5, .	0.6	14
50	A Key Indicator of Transboundary Particulate Matter Pollution Derived from Indonesian Peatland Fires in Malaysia. <i>Aerosol and Air Quality Research</i> , 2016, 16, 69-78.	0.9	13
51	Production of Contact-Free Nanoparticles by Aerosol Process: Dependence of Particle Size on Gas Pressure. <i>Journal of Colloid and Interface Science</i> , 1996, 180, 574-577.	5.0	12
52	EXTENDED X-RAY EMISSION FINE STRUCTURE (EXEFS) AND X-RAY ABSORPTION NEAR EDGE STRUCTURE (XANES) OF SOIL SAMPLES. <i>Instrumentation Science and Technology</i> , 2001, 19, 497-507.	0.8	12
53	Fixation and chemical analysis of single fog and rain droplets. <i>Atmospheric Research</i> , 2003, 65, 251-259.	1.8	12
54	A review on fuel economy test procedure for automobiles: Implementation possibilities in Malaysia and lessons for other countries. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 4029-4046.	8.2	12

#	ARTICLE	IF	CITATIONS
55	Determination of Particle-Associated PAH Derivatives (CIPAHs, NPAHs, OPAHs) in Ambient Air and Automobile Exhaust by Gas Chromatography/Mass Spectrometry with Negative Chemical Ionization. Polycyclic Aromatic Compounds, 2017, 37, 128-140.	1.4	12
56	Physicochemical Properties of Asian Dust Sources. Asian Journal of Atmospheric Environment, 2008, 2, 26-33.	0.4	12
57	Specification of Chemical Properties of Feed Coal and Bottom Ash Collected at a Coal-fired Power Plant. Asian Journal of Atmospheric Environment, 2010, 4, 80-88.	0.4	12
58	Morphological and dynamic characterization of Pb fume particles undergoing Brownian coagulation. Journal of Aerosol Science, 1990, 21, 719-732.	1.8	10
59	Application of polymeric water absorbent film to the study of drop size-resolved fog samples. Atmospheric Environment, 2003, 37, 3749-3756.	1.9	10
60	A replication technique for the collection of individual fog droplets and their chemical analysis using micro-PIXE. Atmospheric Environment, 2003, 37, 4679-4686.	1.9	10
61	Light-Dependent Monoterpene Emissions from an Oak Species Native to Asia. Environmental Control in Biology, 2008, 46, 257-265.	0.3	10
62	Comparison between X-ray photoelectron and X-ray absorption spectra of an environmental aerosol sample measured by synchrotron radiation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1999, 54, 241-245.	1.5	9
63	Depth selective chemical state analysis of Pb and S in fly ash in municipal solid waste incinerators using X-ray absorption spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 635-639.	1.5	9
64	Compilation and application of a primary PM <sub>2.5</sub> emissions inventory with high sectoral resolution in Japan. Atmospheric Environment, 2009, 43, 759-768.	1.9	9
65	Embedding a low-carbon interregional supply chain into a recovery plan for future natural disasters. Journal of Cleaner Production, 2021, 315, 128160.	4.6	9
66	Shape Analysis of Particles by an Image Scanner and a Microcomputer: Application to Agglomerated Aerosol Particles [Translated]. KONA Powder and Particle Journal, 1988, 6, 2-14.	0.9	9
67	Identification of the chemical states of phosphorus in atmospheric aerosols by XANES spectrometry. Journal of Synchrotron Radiation, 2001, 8, 958-960.	1.0	8
68	A preliminary study on humic-like substances in particulate matter in Malaysia influenced by Indonesian peatland fires. Science of the Total Environment, 2021, 753, 142009.	3.9	8
69	A Time-Series Energy Input-Output Analysis for Building an Infrastructure for the Energy and Environment Policy in South Korea. Energy and Environment, 2009, 20, 875-899.	2.7	7
70	A comparison of the biogenic volatile organic compound emissions from the fine roots of 15 tree species in Japan and Taiwan. Journal of Forest Research, 2018, 23, 242-251.	0.7	7
71	History and current status of the motor vehicle energy labeling and its implementation possibilities in Malaysia. Renewable and Sustainable Energy Reviews, 2012, 16, 1828-1844.	8.2	6
72	A New Approach for Characterization of Single Raindrops. , 2001, , 1601-1606.		6

#	ARTICLE	IF	CITATIONS
73	Synthesis and characterization of TiO <sub>2</sub> powders by the double-nozzle electrospray pyrolysis method. Part 1. Refinement and monodispersion of sprayed droplets. <i>Comptes Rendus Chimie</i> , 2013, 16, 244-251.	0.2	5
74	Characterization of thin film produced by quantum dot deposition process. <i>Journal of Aerosol Science</i> , 1996, 27, S149-S150.	1.8	4
75	APPLICATION OF PIXE TO CHARACTERIZATION OF SIZE-SEGREGATED SINGLE RAINDROPS. <i>International Journal of PIXE</i> , 2002, 12, 7-18.	0.4	4
76	Elemental Distribution in Individual Rain Droplets Determined by a Combination of the Replication Method and the Synchrotron Radiation X-ray Fluorescence Microprobe Technique. <i>Analytical Sciences</i> , 2006, 22, 415-419.	0.8	4
77	Temporal and spatial variations in CH <sub>4</sub> concentrations in a Japanese warm-temperate mixed forest. <i>J Agricultural Meteorology</i> , 2010, 66, 1-9.	0.8	4
78	Electrospray deposition and characterization of Cu<sub>2</sub>O thin films with ring-shaped 2-D network structure. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 361-366.	0.5	4
79	Evaluation of Oxidative Potential of Pyrenequinone Isomers by the Dithiothreitol (DTT) Assay. <i>Polycyclic Aromatic Compounds</i> , 2022, 42, 5152-5159.	1.4	4
80	Preliminary Study on the Visualization and Quantification of Elemental Compositions in Individual Microdroplets using Solidification and Synchrotron Radiation Techniques. <i>Asian Journal of Atmospheric Environment</i> , 2011, 5, 56-63.	0.4	4
81	Simultaneous Determination of Gas and Particle Dry Deposition onto Conditioned Surrogate Surfaces. <i>Water, Air, and Soil Pollution</i> , 2001, 130, 535-540.	1.1	3
82	Synthesis and characterization of TiO <sub>2</sub> powders by the double-nozzle electrospray pyrolysis method. Part 2. Material evaluation. <i>Comptes Rendus Chimie</i> , 2016, 19, 342-346.	0.2	3
83	Morphological changes of Pb fumes by Brownian coagulation. <i>Journal of Aerosol Science</i> , 1989, 20, 1031-1034.	1.8	2
84	Preparation of Highly-concentrated Contact-free Silver Nanoparticles by Aerosol Process.. <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal</i> , 1994, 1994, 1027-1029.	0.1	2
85	Simultaneous Detection of X-Ray Fluorescence and Conversion Electrons for Depth Selective XAFS Analysis. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	2
86	Characteristics of organic components in PM <sub>2.5</sub> emitted from peatland fires on Sumatra in 2015: Significance of humic-like substances. <i>Atmospheric Environment: X</i> , 2021, 11, 100116.	0.8	2
87	A Study on the Volume-Based Waste Charging System in South Korea.. <i>Waste Management Research</i> , 2003, 14, 51-60.	0.0	2
88	An Orchestrated Attempt to Determine the Chemical Properties of Asian Dust Particles by PIXE and XRF Techniques. <i>Asian Journal of Atmospheric Environment</i> , 2010, 4, 189-197.	0.4	2
89	Chemical Properties of the Individual Asian Dust Particles Clarified by Micro-PIXE Analytical System. <i>Asian Journal of Atmospheric Environment</i> , 2014, 8, 154-161.	0.4	2
90	Photochemical Aerosol Formation in Multi-Component System Containing Pre-Existing Particles. <i>Studies in Environmental Science</i> , 1980, 8, 221-226.	0.0	1

#	ARTICLE	IF	CITATIONS
91	Estimation of Aerosol Particle Size Distribution by Cascade Impactor and EAA. Journal of the Society of Powder Technology, Japan, 1981, 18, 880-886.	0.0	1
92	Analysis for Chemical Characterization of Atmospheric Aerosols Application of X-ray Microprobe System and Double Thin Film Method. Environmental Monitoring and Assessment, 2006, 120, 575-584.	1.3	1
93	Relationship between Atmospheric Concentration and Emissions of VOCs Using Passive Sampler. Bunseki Kagaku, 2012, 61, 877-883.	0.1	1
94	SEM-EDX Analysis of Insulator Specimens by Diluted Ionic Liquid " Application to Volcanic Particles ". Bunseki Kagaku, 2012, 61, 947-951.	0.1	1
95	Ion nucleation and growth of sulfuric acid-water aerosol particles. , 1996, , 38-41.		1
96	Generation and Size Distribution Measurement of Two-component Aerosol Particles. Japanese Journal of Health Physics, 1983, 18, 237-240.	0.1	1
97	EXAFS Study of Nano-Phase Silver Particles. Japanese Journal of Applied Physics, 1993, 32, 767.	0.8	1
98	Feasibility Study of Photon Correlation Method by Image Analysis of the In Situ Measurement of Irregular Aerosol Particles.. 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1994, 60, 4185-4191.	0.2	0
99	Synthesis and Surface Properties of Fluorescent Polystyrene Latex with Pendant of Thienyl Pyridine.. Kagaku Kogaku Ronbunshu, 1996, 22, 49-55.	0.1	0
100	IMPACT ASSESSMENT OF MERCURY BY USING THE MULTIMEDIA MODEL IN EAST ASIA. Doboku Gakkai Ronbunshuu G, 2010, 66, 136-148.	0.1	0
101	Structure of a metallic microcluster of single-and binary-compounds. , 1996, , 172-175.		0
102	Chemically Aged Asian Dust Particles Proven by Traditional Spot Test and the Most Advanced micro-PIXE. Asian Journal of Atmospheric Environment, 2016, 10, 114-123.	0.4	0
103	Modeling Indoor PM2.5 Air Pollution, Estimating Exposure, and Problems Associated with Rural Indonesian Households Using Wood Fuel. , 2018, , 287-300.		0