Hikari Shimadera

List of Publications by Year
in descending order

44 papers	966 citations	516215 16 h-index	454577 30 g-index
46 all docs	46 docs citations	46 times ranked	1369 citing authors

#	Article	IF	Citations
1	Status and characteristics of ambient PM2.5 pollution in global megacities. Environment International, 2016, 89-90, 212-221.	4.8	287
2	Impact of field biomass burning on local pollution and long-range transport of PM2.5 in Northeast Asia. Environmental Pollution, 2019, 244, 414-422.	3.7	46
3	Comprehensive analyses of source sensitivities and apportionments of PM_{2.5} and ozone over Japan via multiple numerical techniques. Atmospheric Chemistry and Physics, 2020, 20, 10311-10329.	1.9	42
4	Evaluation of Air Quality Model Performance for Simulating Long-Range Transport and Local Pollution of PM_{2.5}in Japan. Advances in Meteorology, 2016, 2016, 1-13.	0.6	37
5	Sensitivity analyses of factors influencing CMAQ performance for fine particulate nitrate. Journal of the Air and Waste Management Association, 2014, 64, 374-387.	0.9	33
6	Overview of Model Inter-Comparison in Japanâ€™s Study for Reference Air Quality Modeling (J-STREAM). Atmosphere, 2018, 9, 19.	1.0	33
7	Numerical Evaluation of the Impact of Urbanization on Summertime Precipitation in Osaka, Japan. Advances in Meteorology, 2015, 2015, 1-11.	0.6	31
8	Contribution of transboundary air pollution to ionic concentrations in fog in the Kinki Region of Japan. Atmospheric Environment, 2009, 43, 5894-5907.	1.9	27
9	Analysis of summertime atmospheric transport of fine particulate matter in Northeast Asia. Asia-Pacific Journal of Atmospheric Sciences, 2013, 49, 347-360.	1.3	27
10	An integrated model combining random forests and WRF/CMAQ model for high accuracy spatiotemporal PM2.5 predictions in the Kansai region of Japan. Atmospheric Environment, 2021, 262, 118620.	1.9	27
11	Annual sulfur deposition through fog, wet and dry deposition in the Kinki Region of Japan. Atmospheric Environment, 2011, 45, 6299-6308.	1.9	22
12	Numerical assessment of PM2.5 and O3 air quality in continental Southeast Asia: Baseline simulation and aerosol direct effects investigation. Atmospheric Environment, 2019, 219, 117054.	1.9	22
13	Numerical evaluation of the effect of photovoltaic cell installation on urban thermal environment. Sustainable Cities and Society, 2015, 19, 250-258.	5.1	21
14	Identification of biased sectors in emission data using a combination of chemical transport model and receptor model. Atmospheric Environment, 2017, 166, 166-181.	1.9	21
15	Optimization of air monitoring networks using chemical transport model and search algorithm. Atmospheric Environment, 2015, 122, 22-30.	1.9	19
16	Evaluation of Thermal Stratification and Flow Field Reproduced by a Three-Dimensional Hydrodynamic Model in Lake Biwa, Japan. Water (Switzerland), 2018, 10, 47.	1.2	18
17	Impacts of Biomass Burning Emission Inventories and Atmospheric Reanalyses on Simulated PM10 over Indochina. Atmosphere, 2020, 11, 160.	1.0	17
18	Long-term trends of satellite-based fine-mode aerosol optical depth over the Seto Inland Sea, Japan, over two decades (2001â€“2020). Environmental Research Letters, 2021, 16, 064062.	2.2	17

#	Article	IF	Citations
19	Effects of a Detailed Vegetation Database on Simulated Meteorological Fields, Biogenic VOC Emissions, and Ambient Pollutant Concentrations over Japan. Atmosphere, 2018, 9, 179.	1.0	16
20	Effect of spatial outliers on the regression modelling of air pollutant concentrations: A case study in Japan. Atmospheric Environment, 2017, 153, 83-93.	1.9	15
21	Multi-Model Analyses of Dominant Factors Influencing Elemental Carbon in Tokyo Metropolitan Area of Japan. Aerosol and Air Quality Research, 2014, 14, 396-405.	0.9	15
22	Analysis of Pollutant Dispersion in a Realistic Urban Street Canyon Using Coupled CFD and Chemical Reaction Modeling. Atmosphere, 2019, 10, 479.	1.0	14
23	Identifying key factors influencing model performance on ground-level ozone over urban areas in Japan through model inter-comparisons. Atmospheric Environment, 2020, 223, 117255.	1.9	14
24	Model Inter-Comparison for PM2.5 Components over urban Areas in Japan in the J-STREAM Framework. Atmosphere, 2020, 11, 222.	1.0	14
25	Evaluation of light dependence of monoterpene emission and its effect on surface ozone concentration. Atmospheric Environment, 2015, 104, 143-153.	1.9	13
26	Impact of Aerosol Direct Effect on Wintertime PM2.5 Simulated by an Online Coupled Meteorology-Air Quality Model over East Asia. Aerosol and Air Quality Research, 2018, 18, 1068-1079.	0.9	13
27	Urban Air Quality Model Inter-Comparison Study (UMICS) for Improvement of PM2.5 Simulation in Greater Tokyo Area of Japan. Asian Journal of Atmospheric Environment, 2018, 12, 139-152.	0.4	13
28	Investigation of aerosol direct effects on meteorology and air quality in East Asia by using an online coupled modeling system. Atmospheric Environment, 2019, 207, 182-196.	1.9	11
29	Incorporating Light Gradient Boosting Machine to land use regression model for estimating NO2 and PM2.5 levels in Kansai region, Japan. Environmental Modelling and Software, 2022, 155, 105447.	1.9	11
30	Performance comparison of CMAQ and CAMx for one-year PM<SUB align="right">2.5 simulation in Japan. International Journal of Environment and Pollution, 2015, 57, 146.	0.2	10
31	Identification of multiple contamination sources using variational continuous assimilation. Building and Environment, 2019, 147, 422-433.	3.0	9
32	Evaluation of the Effect of Regional Pollutants and Residual Ozone on Ozone Concentrations in the Morning in the Inland of the Kanto Region. Asian Journal of Atmospheric Environment, 2015, 9, 1-11.	0.4	9
33	Numerical Simulation of Extreme Air Pollution by Fine Particulate Matter in China in Winter 2013. Asian Journal of Atmospheric Environment, 2014, 8, 25-34.	0.4	8
34	Numerical Analysis on Biogenic Emission Sources Contributing to Urban Ozone Concentration in Osaka, Japan. Asian Journal of Atmospheric Environment, 2015, 9, 259-271.	0.4	7
35	Estimation of indoor contamination source location by using variational continuous assimilation method. Building Simulation, 2015, 8, 443-452.	3.0	6
36	Model Performance Differences in Fine-Mode Nitrate Aerosol during Wintertime over Japan in the J-STREAM Model Inter-Comparison Study. Atmosphere, 2020, 11, 511.	1.0	5

#	Article	IF	Citations
37	Numerical Simulation of Heavy Rainfall in August 2014 over Japan and Analysis of Its Sensitivity to Sea Surface Temperature. Atmosphere, 2018, 9, 84.	1.0	4
38	Impacts of the Tree Canopy and Chemical Reactions on the Dispersion of Reactive Pollutants in Street Canyons. Atmosphere, 2021, 12, 34.	1.0	3
39	Predicting Daily PM2.5 Exposure with Spatially Invariant Accuracy Using Co-Existing Pollutant Concentrations as Predictors. Atmosphere, 2022, 13, 782.	1.0	3
40	Numerical Analysis of Sensitivity of Structure of the Stratification in Lake Biwa, Japan by Changing Meteorological Elements. Water (Switzerland), 2018, 10, 1492.	1.2	2
41	Evaluation of Water Retentive Pavement as Mitigation Strategy for Urban Heat Island Using Computational Fluid Dynamics. Asian Journal of Atmospheric Environment, 2016, 10, 179-189.	0.4	2
42	Screening technique to estimate high benzo[a]pyrene concentrations near roads. International Journal of Environment and Pollution, 2012, 48, 126.	0.2	1
43	Numerical Simulation of PM_{2.5} in the Atmosphere by Regional Chemical Transport Model. Japanese Journal of Multiphase Flow, 2018, 32, 329-336.	0.1	0
44	Analysis of PM_{2.5} in Shiga Prefecture using an atmospheric chemistry transport model. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2018, 74, I_61-I_68.	0.1	0