

Satoru Chatani

List of Publications by Year in descending order

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42
papers

1,417
citations

377584

21
h-index

388640

36
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docs citations

50
times ranked

2025
citing authors

#	ARTICLE	IF	CITATIONS
1	Advantages of Continuous Monitoring of Hourly PM _{2.5} Component Concentrations in Japan for Model Validation and Source Sensitivity Analyses. <i>Asian Journal of Atmospheric Environment</i> , 2021, 15, 1-29.	0.4	5
2	Year-round modeling of sulfate aerosol over Asia through updates of aqueous-phase oxidation and gas-phase reactions with stabilized Criegee intermediates. <i>Atmospheric Environment: X</i> , 2021, 12, 100123.	0.8	2
3	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
4	Air Pollution Over India: Causal Factors for the High Pollution with Implications for Mitigation. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3297-3312.	1.2	10
5	Affluent countries inflict inequitable mortality and economic loss on Asia via PM _{2.5} emissions. <i>Environment International</i> , 2020, 134, 105238.	4.8	36
6	Identifying key factors influencing model performance on ground-level ozone over urban areas in Japan through model inter-comparisons. <i>Atmospheric Environment</i> , 2020, 223, 117255.	1.9	14
7	Model Performance Differences in Fine-Mode Nitrate Aerosol during Wintertime over Japan in the J-STREAM Model Inter-Comparison Study. <i>Atmosphere</i> , 2020, 11, 511.	1.0	5
8	Model Inter-Comparison for PM _{2.5} Components over urban Areas in Japan in the J-STREAM Framework. <i>Atmosphere</i> , 2020, 11, 222.	1.0	14
9	Comprehensive analyses of source sensitivities and apportionments of PM _{2.5} and ozone over Japan via multiple numerical techniques. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10311-10329.	1.9	42
10	Historical and future anthropogenic warming effects on droughts, fires and fire emissions of CO ₂ and PM _{2.5} in equatorial Asia when 2015-like El Niño events occur. <i>Earth System Dynamics</i> , 2020, 11, 435-445.	2.7	14
11	Long-term trend of regional passenger road transport demand and emission estimation under exhaust emission regulation scenario in Thailand. <i>Environmental Research Communications</i> , 2020, 2, 051009.	0.9	3
12	Differences in Model Performance and Source Sensitivities for Sulfate Aerosol Resulting from Updates of the Aqueous- and Gas-Phase Oxidation Pathways for a Winter Pollution Episode in Tokyo, Japan. <i>Atmosphere</i> , 2019, 10, 544.	1.0	7
13	Exploring Gaps between Bottom-Up and Top-Down Emission Estimates Based on Uncertainties in Multiple Emission Inventories: A Case Study on CH ₄ Emissions in China. <i>Sustainability</i> , 2019, 11, 2054.	1.6	23
14	Uncertainties in O ₃ concentrations simulated by CMAQ over Japan using four chemical mechanisms. <i>Atmospheric Environment</i> , 2019, 198, 448-462.	1.9	30
15	Model Performance Differences in Sulfate Aerosol in Winter over Japan Based on Regional Chemical Transport Models of CMAQ and CAMx. <i>Atmosphere</i> , 2018, 9, 488.	1.0	11
16	Refinement of Modeled Aqueous-Phase Sulfate Production via the Fe- and Mn-Catalyzed Oxidation Pathway. <i>Atmosphere</i> , 2018, 9, 132.	1.0	21
17	Uncertainties Caused by Major Meteorological Analysis Data Sets in Simulating Air Quality Over India. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6230-6247.	1.2	6
18	Overview of Model Inter-Comparison in Japan's Study for Reference Air Quality Modeling (J-STREAM). <i>Atmosphere</i> , 2018, 9, 19.	1.0	33

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19	Effects of a Detailed Vegetation Database on Simulated Meteorological Fields, Biogenic VOC Emissions, and Ambient Pollutant Concentrations over Japan. <i>Atmosphere</i> , 2018, 9, 179.	1.0	16
20	Contributions of Condensable Particulate Matter to Atmospheric Organic Aerosol over Japan. <i>Environmental Science & Technology</i> , 2018, 52, 8456-8466.	4.6	54
21	Urban Air Quality Model Inter-Comparison Study (UMICS) for Improvement of PM _{2.5} Simulation in Greater Tokyo Area of Japan. <i>Asian Journal of Atmospheric Environment</i> , 2018, 12, 139-152.	0.4	13
22	Emission Inventory of On-Road Transport in Bangkok Metropolitan Region (BMR) Development during 2007 to 2015 Using the GAINS Model. <i>Atmosphere</i> , 2017, 8, 167.	1.0	25
23	Sensitivity analysis of ground level ozone in India using WRF-CMAQ models. <i>Atmospheric Environment</i> , 2016, 131, 29-40.	1.9	80
24	Estimate of biogenic VOC emissions in Japan and their effects on photochemical formation of ambient ozone and secondary organic aerosol. <i>Atmospheric Environment</i> , 2015, 120, 38-50.	1.9	26
25	Emission inventory of non-methane volatile organic compounds from anthropogenic sources in India. <i>Atmospheric Environment</i> , 2015, 102, 209-219.	1.9	50
26	Sensitivity analyses of factors influencing CMAQ performance for fine particulate nitrate. <i>Journal of the Air and Waste Management Association</i> , 2014, 64, 374-387.	0.9	33
27	Photochemical roles of rapid economic growth and potential abatement strategies on tropospheric ozone over South and East Asia in 2030. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9259-9277.	1.9	33
28	Multi-Model Analyses of Dominant Factors Influencing Elemental Carbon in Tokyo Metropolitan Area of Japan. <i>Aerosol and Air Quality Research</i> , 2014, 14, 396-405.	0.9	15
29	Analysis of summertime atmospheric transport of fine particulate matter in Northeast Asia. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2013, 49, 347-360.	1.3	27
30	A new approach for estimation of the effect of NO _x emission reduction on roadside NO ₂ concentration in Tokyo. <i>Atmospheric Environment</i> , 2013, 68, 92-102.	1.9	7
31	Seasonal variation of isoprene basal emission in mature <i>Quercus crispula</i> trees under experimental warming of roots and branches. <i>Geochemical Journal</i> , 2012, 46, 163-167.	0.5	6
32	Simulation of urban and regional air pollution in Bangladesh. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	19
33	Determination and potential importance of diterpene (kaur-16-ene) emitted from dominant coniferous trees in Japan. <i>Chemosphere</i> , 2012, 87, 886-893.	4.2	29
34	Air quality diagnosis from comprehensive observations of total OH reactivity and reactive trace species in urban central Tokyo. <i>Atmospheric Environment</i> , 2012, 49, 51-59.	1.9	65
35	Influences of the variation in inflow to East Asia on surface ozone over Japan during 1996–2005. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8745-8758.	1.9	22
36	Projections of air pollutant emissions and its impacts on regional air quality in China in 2020. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3119-3136.	1.9	94

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37	Development of a framework for a high-resolution, three-dimensional regional air quality simulation and its application to predicting future air quality over Japan. Atmospheric Environment, 2011, 45, 1383-1393.	1.9	43
38	Verification of anthropogenic emissions of China by satellite and ground observations. Atmospheric Environment, 2011, 45, 6347-6358.	1.9	124
39	Evaluation of non-methane hydrocarbon (NMHC) emissions based on an ambient air measurement in Tokyo area, Japan. Atmospheric Environment, 2010, 44, 4982-4993.	1.9	6
40	Evaluation of Ensemble Approach for O3 and PM2.5 Simulation. Asian Journal of Atmospheric Environment, 2010, 4, 150-156.	0.4	11
41	Emission and speciation of non-methane volatile organic compounds from anthropogenic sources in China. Atmospheric Environment, 2008, 42, 4976-4988.	1.9	242
42	A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics. Journal of the Air and Waste Management Association, 2008, 58, 1057-1069.	0.9	63