

# Sang-Hyun Lee

## List of Publications by Year in descending order

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37  
papers

1,488  
citations

430874

18  
h-index

330143

37  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1950  
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial results from Phase 2 of the international urban energy balance model comparison. <i>International Journal of Climatology</i> , 2011, 31, 244-272.	3.5	284
2	A Vegetated Urban Canopy Model for Meteorological and Environmental Modelling. <i>Boundary-Layer Meteorology</i> , 2007, 126, 73-102.	2.3	138
3	Evaluation of urban surface parameterizations in the WRF model using measurements during the Texas Air Quality Study 2006 field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2127-2143.	4.9	119
4	Assessment of the RegCM4 over East Asia and future precipitation change adapted to the RCP scenarios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2913-2927.	3.3	95
5	Evaluations of NO <sub>x</sub> and highly reactive VOC emission inventories in Texas and their implications for ozone plume simulations during the Texas Air Quality Study 2006. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11361-11386.	4.9	85
6	A New Single-Layer Urban Canopy Model for Use in Mesoscale Atmospheric Models. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 1773-1794.	1.5	83
7	Estimation of anthropogenic heat emission in the Gyeong-In region of Korea. <i>Theoretical and Applied Climatology</i> , 2009, 96, 291-303.	2.8	81
8	Urban air quality simulation in a high-rise building area using a CFD model coupled with mesoscale meteorological and chemistry-transport models. <i>Atmospheric Environment</i> , 2015, 100, 167-177.	4.1	75
9	Statistical and dynamical characteristics of the urban heat island intensity in Seoul. <i>Theoretical and Applied Climatology</i> , 2010, 100, 227-237.	2.8	74
10	Effects of anthropogenic heat on ozone air quality in a megacity. <i>Atmospheric Environment</i> , 2013, 80, 20-30.	4.1	50
11	Multiscale observations of CO <sub>2</sub> , <sup>13</sup> CO <sub>2</sub> , and pollutants at Four Corners for emission verification and attribution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8386-8391.	7.1	43
12	Impacts of Mesoscale Wind on Turbulent Flow and Ventilation in a Densely Built-up Urban Area. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 811-824.	1.5	39
13	Impacts of canyon vegetation and canyon aspect ratio on the thermal environment of street canyons: numerical investigation using a coupled WRF-Urban Canopy Model (UCM) model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 2562-2578.	2.7	31
14	Relationship between rooftop and on-road concentrations of traffic-related pollutants in a busy street canyon: Ambient wind effects. <i>Environmental Pollution</i> , 2016, 208, 185-197.	7.5	29
15	Impacts of biogenic isoprene emission on ozone air quality in the Seoul metropolitan area. <i>Atmospheric Environment</i> , 2014, 96, 209-219.	4.1	28
16	A regression approach for estimation of anthropogenic heat flux based on a bottom-up air pollutant emission database. <i>Atmospheric Environment</i> , 2014, 95, 629-633.	4.1	27
17	Further Development of the Vegetated Urban Canopy Model Including a Grass-Covered Surface Parametrization and Photosynthesis Effects. <i>Boundary-Layer Meteorology</i> , 2011, 140, 315-342.	2.3	25
18	Modeling ozone plumes observed downwind of New York City over the North Atlantic Ocean during the ICARTT field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7375-7397.	4.9	22

#	ARTICLE	IF	CITATIONS
19	Fine-Scale Columnar and Surface NO <sub>x</sub> Concentrations over South Korea: Comparison of Surface Monitors, TROPOMI, CMAQ and CAPSS Inventory. <i>Atmosphere</i> , 2020, 11, 101.	2.3	20
20	Computational Fluid Dynamics Modelling of the Diurnal Variation of Flow in a Street Canyon. <i>Boundary-Layer Meteorology</i> , 2011, 141, 77-92.	2.3	19
21	Estimation of turbulent sensible heat and momentum fluxes over a heterogeneous urban area using a large aperture scintillometer. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 1092-1105.	4.3	16
22	Estimation of anthropogenic heat emission over South Korea using a statistical regression method. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2015, 51, 157-166.	2.3	15
23	Comparison of PM <sub>2.5</sub> Chemical Components over East Asia Simulated by the WRF-Chem and WRF/CMAQ Models: On the Models' Prediction Inconsistency. <i>Atmosphere</i> , 2019, 10, 618.	2.3	15
24	Evaluation of the vegetated urban canopy model (VUCM) and its impacts on urban boundary layer simulation. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2011, 47, 151-165.	2.3	12
25	Determination of Turbulent Sensible Heat Flux over a Coastal Maritime Area Using a Large Aperture Scintillometer. <i>Boundary-Layer Meteorology</i> , 2015, 157, 309-319.	2.3	9
26	Development of a Building-Scale Meteorological Prediction System Including a Realistic Surface Heating. <i>Atmosphere</i> , 2020, 11, 67.	2.3	9
27	A 3-D Lagrangian particle dispersion model with photochemical reactions. <i>Atmospheric Environment</i> , 2003, 37, 4607-4623.	4.1	6
28	Simulating mesoscale transport and diffusion of radioactive noble gases using the Lagrangian particle dispersion model. <i>Journal of Environmental Radioactivity</i> , 2008, 99, 1644-1652.	1.7	6
29	Effect of Wet Deposition on Secondary Inorganic Aerosols Using an Urban-Scale Air Quality Model. <i>Atmosphere</i> , 2021, 12, 168.	2.3	6
30	An analytically based numerical method for computing view factors in real urban environments. <i>Theoretical and Applied Climatology</i> , 2018, 131, 445-453.	2.8	5
31	Detection of Strong NO <sub>x</sub> Emissions from Fine-scale Reconstruction of the OMI Tropospheric NO <sub>2</sub> Product. <i>Remote Sensing</i> , 2019, 11, 1861.	4.0	5
32	The Microscale Urban Surface Energy (MUSE) Model for Real Urban Application. <i>Atmosphere</i> , 2020, 11, 1347.	2.3	4
33	A Building-Block Urban Meteorological Observation Experiment (BBMEX) Campaign in Central Commercial Area in Seoul. <i>Atmosphere</i> , 2020, 11, 299.	2.3	3
34	Intra-Community Scale Variability of Air Quality in the Center of a Megacity in South Korea: A High-Density Cost-Effective Sensor Network. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9105.	2.5	3
35	Simulation of Air Quality Over South Korea Using the WRF-Chem Model: Impacts of Chemical Initial and Lateral Boundary Conditions. <i>Atmosphere</i> , 2015, 25, 639-657.	0.3	3
36	Measurements of Turbulent Flow and Ozone at Rooftop and Sidewalk Sites in a High-Rise Building Area. <i>Scientific Online Letters on the Atmosphere</i> , 2015, 11, 1-4.	1.4	2

#	ARTICLE	IF	CITATIONS
37	Uncertainty Analysis of the Eddy-Covariance Turbulent Fluxes Measured over a Heterogeneous Urban Area: A Coordinate Tilt Impact. Atmosphere, 2016, 26, 473-482.	0.3	2