Mohammad Taleghani

List of Publications by Year
in descending order

60 papers	4,127 citations	126907 33 h-index	128289 60 g-index
75 all docs	75 docs citations	75 times ranked	4866 citing authors

#	Article	IF	Citations
1	Outdoor thermal comfort within five different urban forms in the Netherlands. Building and Environment, 2015, 83, 65-78.	6.9	428
2	Biophysical considerations in forestry for climate protection. Frontiers in Ecology and the Environment, 2011, 9, 174-182.	4.0	301
3	A numerical investigation into the anomalous slight NOx increase when burning biodiesel; A new (old) theory. Fuel Processing Technology, 2007, 88, 659-667.	7.2	265
4	Importance of carbon dioxide physiological forcing to future climate change. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9513-9518.	7.1	240
5	Outdoor thermal comfort by different heat mitigation strategies- A review. Renewable and Sustainable Energy Reviews, 2018, 81, 2011-2018.	16.4	195
6	Dependence of climate forcing and response on the altitude of black carbon aerosols. Climate Dynamics, 2012, 38, 897-911.	3.8	143
7	Micrometeorological simulations to predict the impacts of heat mitigation strategies on pedestrian thermal comfort in a Los Angeles neighborhood. Environmental Research Letters, 2016, 11, 024003.	5.2	138
8	The effect of pavement characteristics on pedestrians' thermal comfort in Toronto. Urban Climate, 2018, 24, 449-459.	5.7	132
9	Carbonyl and Nitrogen Dioxide Emissions From Gasoline- and Diesel-Powered Motor Vehicles. Environmental Science & Technology, 2008, 42, 3944-3950.	10.0	130
10	Thermal assessment of heat mitigation strategies: The case of Portland State University, Oregon, USA. Building and Environment, 2014, 73, 138-150.	6.9	129
11	Evaluating the ENVI-met microscale model for suitability in analysis of targeted urban heat mitigation strategies. Urban Climate, 2018, 26, 188-197.	5.7	119
12	Heat in courtyards: A validated and calibrated parametric study of heat mitigation strategies for urban courtyards in the Netherlands. Solar Energy, 2014, 103, 108-124.	6.1	105
13	Measurement of Black Carbon and Particle Number Emission Factors from Individual Heavy-Duty Trucks. Environmental Science & Technology, 2009, 43, 1419-1424.	10.0	104
14	Impact of remotely sensed albedo and vegetation fraction on simulation of urban climate in WRFâ€urban canopy model: A case study of the urban heat island in Los Angeles. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1511-1531.	3.3	103
15	Size-resolved particle number and volume emission factors for on-road gasoline and diesel motor vehicles. Journal of Aerosol Science, 2010, 41, 5-12.	3.8	97
16	Albedo enhancement of marine clouds to counteract global warming: impacts on the hydrological cycle. Climate Dynamics, 2011, 37, 915-931.	3.8	75
17	The impact of increasing urban surface albedo on outdoor summer thermal comfort within a university campus. Urban Climate, 2018, 24, 175-184.	5.7	74
18	Effects of urban land expansion on the regional meteorology and air quality of eastern China. Atmospheric Chemistry and Physics, 2015, 15, 8597-8614.	4.9	69

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19	Investigating the climate impacts of urbanization and the potential for cool roofs to counter future climate change in Southern California. Environmental Research Letters, 2016, 11, 124027.	5.2	68
20	The role of sky view factor and urban street greenery in human thermal comfort and heat stress in a desert climate. Journal of Arid Environments, 2019, 166, 68-76.	2.4	66
21	Heat mitigation strategies in winter and summer: Field measurements in temperate climates. Building and Environment, 2014, 81, 309-319.	6.9	62
22	Electricity production and cooling energy savings from installation of a building-integrated photovoltaic roof on an office building. Energy and Buildings, 2013, 56, 210-220.	6.7	61
23	Potential benefits of solar reflective car shells: Cooler cabins, fuel savings and emission reductions. Applied Energy, 2011, 88, 4343-4357.	10.1	54
24	Direct and indirect effects of high-albedo roofs on energy consumption and thermal comfort of residential buildings. Energy and Buildings, 2018, 178, 71-83.	6.7	52
25	Long-range transport of black carbon to the Pacific Ocean and its dependence on aging timescale. Atmospheric Chemistry and Physics, 2015, 15, 11521-11535.	4.9	48
26	Climatic consequences of adopting droughtâ€tolerant vegetation over Los Angeles as a response to California drought. Geophysical Research Letters, 2016, 43, 8240-8249.	4.0	48
27	Using remote sensing to quantify albedo of roofs in seven California cities, Part 1: Methods. Solar Energy, 2015, 115, 777-790.	6.1	47
28	Effects of urbanization on regional meteorology and air qualityÂinÂSouthernÂCalifornia. Atmospheric Chemistry and Physics, 2019, 19, 4439-4457.	4.9	46
29	Indoor thermal comfort in urban courtyard block dwellings in the Netherlands. Building and Environment, 2014, 82, 566-579.	6.9	44
30	ENVIRONMENTAL IMPACT OF COURTYARDSâ€"A REVIEW AND COMPARISON OF RESIDENTIAL COURTYARD BUILDINGS IN DIFFERENT CLIMATES. Journal of Green Building, 2012, 7, 113-136.	0.8	44
31	Optical and physical properties of primary on-road vehicle particle emissions and their implications for climate change. Journal of Aerosol Science, 2010, 41, 36-50.	3.8	41
32	The impact of heat mitigation strategies on the energy balance of a neighborhood in Los Angeles. Solar Energy, 2019, 177, 604-611.	6.1	41
33	Urban measures for hot weather conditions in a temperate climate condition: A review study. Renewable and Sustainable Energy Reviews, 2017, 75, 515-533.	16.4	36
34	Air-quality implications of widespread adoption of cool roofs on ozone and particulate matter in southern California. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8991-8996.	7.1	33
35	Revisiting the climate impacts of cool roofs around the globe using an Earth system model. Environmental Research Letters, 2016, 11, 084014.	5.2	32
36	Systematic Comparison of the Influence of Cool Wall versus Cool Roof Adoption on Urban Climate in the Los Angeles Basin. Environmental Science & Technology, 2018, 52, 11188-11197.	10.0	31

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37	Measurements of the impact of atmospheric aging on physical and optical properties of ambient black carbon particles in Los Angeles. Atmospheric Environment, 2016, 142, 496-504.	4.1	30
38	Evaluating clouds, aerosols, and their interactions in three global climate models using satellite simulators and observations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,876-10,901.	3.3	28
39	Heat-Mitigation Strategies to Improve Pedestrian Thermal Comfort in Urban Environments: A Review. Sustainability, 2020, 12, 10000.	3.2	28
40	The role of household level electricity data in improving estimates of the impacts of climate on building electricity use. Energy and Buildings, 2018, 180, 146-158.	6.7	27
41	Impact of particulate matter (PM) emissions from ships, locomotives, and freeways in the communities near the ports of Los Angeles (POLA) and Long Beach (POLB) on the air quality in the Los Angeles county. Atmospheric Environment, 2018, 195, 159-169.	4.1	26
42	Modeling the climate impacts of deploying solar reflective cool pavements in California cities. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6798-6817.	3.3	25
43	Investigating the Urban Air Quality Effects of Cool Walls and Cool Roofs in Southern California. Environmental Science & Technology, 2019, 53, 7532-7542.	10.0	25
44	Air pollution in a microclimate; the impact of different green barriers on the dispersion. Science of the Total Environment, 2020, 711, 134649.	8.0	25
45	Climate response to imposed solar radiation reductions in high latitudes. Earth System Dynamics, 2013, 4, 301-315.	7.1	24
46	Using remote sensing to quantify albedo of roofs in seven California cities, Part 2: Results and application to climate modeling. Solar Energy, 2015, 115, 791-805.	6.1	21
47	Renaturing a microclimate: The impact of greening a neighbourhood on indoor thermal comfort during a heatwave in Manchester, UK. Solar Energy, 2019, 182, 245-255.	6.1	21
48	Utilizing smart-meter data to project impacts of urban warming on residential electricity use for vulnerable populations in Southern California. Environmental Research Letters, 2020, 15, 064001.	5.2	18
49	Influence of cloud microphysical processes on black carbon wet removal, global distributions, and radiative forcing. Atmospheric Chemistry and Physics, 2019, 19, 1587-1603.	4.9	17
50	A new method utilizing smart meter data for identifying the existence of air conditioning in residential homes. Environmental Research Letters, 2019, 14, 094004.	5.2	16
51	Measuring the impacts of a real-world neighborhood-scale cool pavement deployment on albedo and temperatures in Los Angeles. Environmental Research Letters, 2022, 17, 044027.	5.2	15
52	Urban cooling: Which faÃ§ade orientation has the most impact on a microclimate?. Sustainable Cities and Society, 2021, 64, 102547.	10.4	14
53	Energy performance and summer thermal comfort of traditional courtyard buildings in a desert climate. Environmental Progress and Sustainable Energy, 2019, 38, e13256.	2.3	13
54	Influence of street setbacks on solar reflection and air cooling by reflective streets in urban canyons. Solar Energy, 2017, 144, 144-157.	6.1	12

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55	Potential impacts of urban land expansion on Asian airborne pollutant outflows. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7646-7663.	3.3	12
56	Characterizing the evolution of physical properties and mixing state of black carbon particles: from near a major highway to the broader urban plume in Los Angeles. Atmospheric Chemistry and Physics, 2018, 18, 11991-12010.	4.9	9
57	Measurements to determine the mixing state of black carbon emitted from the 2017â€“2018 California wildfires and urban Los Angeles. Atmospheric Chemistry and Physics, 2020, 20, 15635-15664.	4.9	8
58	Quantification of Outdoor Thermal Comfort Levels under Sea Breeze in the Historical City Fabric: The Case of Algiers Casbah. Atmosphere, 2022, 13, 575.	2.3	5
59	Air Pollution within Different Urban Forms in Manchester, UK. Climate, 2022, 10, 26.	2.8	4
60	Learning to Chill: The Role of Design Schools and Professional Training to Improve Urban Climate and Urban Metabolism. Energies, 2020, 13, 2243.	3.1	2