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	Air Pollution within Different Urban Forms in Manchester, UK. Climate, 2022, 10, 26.	2.8	4
2	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
3	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
4	Urban cooling: Which faÃ§ade orientation has the most impact on a microclimate?. Sustainable Cities and Society, 2021, 64, 102547.	10.4	14
5	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
6	Heat-Mitigation Strategies to Improve Pedestrian Thermal Comfort in Urban Environments: A Review. Sustainability, 2020, 12, 10000.	3.2	28
7	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
8	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
9	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
10	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
11	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
12	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
13	Effects of urbanization on regional meteorology and air qualityÂinÂSouthernÂCalifornia. Atmospheric Chemistry and Physics, 2019, 19, 4439-4457.	4.9	46
14	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
15	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
16	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
17	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
18	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

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19	The effect of pavement characteristics on pedestrians' thermal comfort in Toronto. Urban Climate, 2018, 24, 449-459.	5.7	132
20	Outdoor thermal comfort by different heat mitigation strategies- A review. Renewable and Sustainable Energy Reviews, 2018, 81, 2011-2018.	16.4	195
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	Potential impacts of urban land expansion on Asian airborne pollutant outflows. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7646-7663.	3.3	12
31	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
32	Revisiting the climate impacts of cool roofs around the globe using an Earth system model. Environmental Research Letters, 2016, 11, 084014.	5.2	32
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	Using remote sensing to quantify albedo of roofs in seven California cities, Part 1: Methods. Solar Energy, 2015, 115, 777-790.	6.1	47
42	Outdoor thermal comfort within five different urban forms in the Netherlands. Building and Environment, 2015, 83, 65-78.	6.9	428
43	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
44	Thermal assessment of heat mitigation strategies: The case of Portland State University, Oregon, USA. Building and Environment, 2014, 73, 138-150.	6.9	129
45	Indoor thermal comfort in urban courtyard block dwellings in the Netherlands. Building and Environment, 2014, 82, 566-579.	6.9	44
46	Heat mitigation strategies in winter and summer: Field measurements in temperate climates. Building and Environment, 2014, 81, 309-319.	6.9	62
47	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
48	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
49	Climate response to imposed solar radiation reductions in high latitudes. Earth System Dynamics, 2013, 4, 301-315.	7.1	24
50	Dependence of climate forcing and response on the altitude of black carbon aerosols. Climate Dynamics, 2012, 38, 897-911.	3.8	143
51	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
52	Biophysical considerations in forestry for climate protection. Frontiers in Ecology and the Environment, 2011, 9, 174-182.	4.0	301
53	Potential benefits of solar reflective car shells: Cooler cabins, fuel savings and emission reductions. Applied Energy, 2011, 88, 4343-4357.	10.1	54
54	Albedo enhancement of marine clouds to counteract global warming: impacts on the hydrological cycle. Climate Dynamics, 2011, 37, 915-931.	3.8	75

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55	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
56	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
57	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
58	Measurement of Black Carbon and Particle Number Emission Factors from Individual Heavy-Duty Trucks. Environmental Science & Technology, 2009, 43, 1419-1424.	10.0	104
59	Carbonyl and Nitrogen Dioxide Emissions From Gasoline- and Diesel-Powered Motor Vehicles. Environmental Science & Technology, 2008, 42, 3944-3950.	10.0	130
60	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