

David J Sailor

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100
papers

7,018
citations

40
h-index

83
g-index

104
ext. papers

7,979
ext. citations

5.7
avg, IF

6.56
L-index

#	Paper	IF	Citations
100	The integrated WRF/urban modelling system: development, evaluation, and applications to urban environmental problems. <i>International Journal of Climatology</i> , 2011 , 31, 273-288	3.5	681
99	A green roof model for building energy simulation programs. <i>Energy and Buildings</i> , 2008 , 40, 1466-1478	7	412
98	Public perception of climate change voluntary mitigation and barriers to behavior change. <i>American Journal of Preventive Medicine</i> , 2008 , 35, 479-87	6.1	374
97	A top-down methodology for developing diurnal and seasonal anthropogenic heating profiles for urban areas. <i>Atmospheric Environment</i> , 2004 , 38, 2737-2748	5.3	357
96	Mitigation of urban heat islands: materials, utility programs, updates. <i>Energy and Buildings</i> , 1995 , 22, 255-265	7	326
95	A review of methods for estimating anthropogenic heat and moisture emissions in the urban environment. <i>International Journal of Climatology</i> , 2011 , 31, 189-199	3.5	307
94	Quantifying the influence of land-use and surface characteristics on spatial variability in the urban heat island. <i>Theoretical and Applied Climatology</i> , 2009 , 95, 397-406	3	266
93	Using building energy simulation and geospatial modeling techniques to determine high resolution building sector energy consumption profiles. <i>Energy and Buildings</i> , 2008 , 40, 1426-1436	7	211
92	Sensitivity of electricity and natural gas consumption to climate in the U.S.A. Methodology and results for eight states. <i>Energy</i> , 1997 , 22, 987-998	7.9	210
91	Modeling the impacts of anthropogenic heating on the urban climate of Philadelphia: a comparison of implementations in two PBL schemes. <i>Atmospheric Environment</i> , 2005 , 39, 73-84	5.3	188
90	Climate and More Sustainable Cities: Climate Information for Improved Planning and Management of Cities (Producers/Capabilities Perspective). <i>Procedia Environmental Sciences</i> , 2010 , 1, 247-274		180
89	Air conditioning market saturation and long-term response of residential cooling energy demand to climate change. <i>Energy</i> , 2003 , 28, 941-951	7.9	166
88	Simulated Urban Climate Response to Modifications in Surface Albedo and Vegetative Cover. <i>Journal of Applied Meteorology and Climatology</i> , 1995 , 34, 1694-1704		151
87	Relating residential and commercial sector electricity loads to climate—evaluating state level sensitivities and vulnerabilities. <i>Energy</i> , 2001 , 26, 645-657	7.9	149
86	Public perception and behavior change in relationship to hot weather and air pollution. <i>Environmental Research</i> , 2008 , 107, 401-11	7.9	142
85	Modeling impacts of roof reflectivity, integrated photovoltaic panels and green roof systems on sensible heat flux into the urban environment. <i>Building and Environment</i> , 2011 , 46, 2542-2551	6.5	124
84	Climate change implications for wind power resources in the Northwest United States. <i>Renewable Energy</i> , 2008 , 33, 2393-2406	8.1	110

83	Vulnerability of wind power resources to climate change in the continental United States. <i>Renewable Energy</i> , 2002 , 27, 585-598	8.1	110
82	Thermal assessment of heat mitigation strategies: The case of Portland State University, Oregon, USA. <i>Building and Environment</i> , 2014 , 73, 138-150	6.5	107
81	Impact of tree locations and arrangements on outdoor microclimates and human thermal comfort in an urban residential environment. <i>Urban Forestry and Urban Greening</i> , 2018 , 32, 81-91	5.4	103
80	Evaluation of phase change materials for improving thermal comfort in a super-insulated residential building. <i>Energy and Buildings</i> , 2014 , 79, 32-40	7	102
79	Micrometeorological simulations to predict the impacts of heat mitigation strategies on pedestrian thermal comfort in a Los Angeles neighborhood. <i>Environmental Research Letters</i> , 2016 , 11, 024003	6.2	101
78	National Urban Database and Access Portal Tool. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 1157-1168	6.1	100
77	Exploring the building energy impacts of green roof design decisions in a modeling study of buildings in four distinct climates. <i>Journal of Building Physics</i> , 2012 , 35, 372-391	2.6	96
76	Development of a national anthropogenic heating database with an extrapolation for international cities. <i>Atmospheric Environment</i> , 2015 , 118, 7-18	5.3	88
75	Thermal property measurements for ecoroof soils common in the western U.S.. <i>Energy and Buildings</i> , 2008 , 40, 1246-1251	7	84
74	Heat in courtyards: A validated and calibrated parametric study of heat mitigation strategies for urban courtyards in the Netherlands. <i>Solar Energy</i> , 2014 , 103, 108-124	6.8	79
73	PROGRESS IN URBAN GREENERY MITIGATION SCIENCE ASSESSMENT METHODOLOGIES ADVANCED TECHNOLOGIES AND IMPACT ON CITIES. <i>Journal of Civil Engineering and Management</i> , 2018 , 24, 638-671	3	71
72	An updated and expanded set of thermal property data for green roof growing media. <i>Energy and Buildings</i> , 2011 , 43, 2298-2303	7	68
71	Modeling the diurnal variability of effective albedo for cities. <i>Atmospheric Environment</i> , 2002 , 36, 713-725	5.3	67
70	Evaluating the ENVI-met microscale model for suitability in analysis of targeted urban heat mitigation strategies. <i>Urban Climate</i> , 2018 , 26, 188-197	6.8	67
69	A neural network approach to local downscaling of GCM output for assessing wind power implications of climate change. <i>Renewable Energy</i> , 2000 , 19, 359-378	8.1	66
68	Risks of summertime extreme thermal conditions in buildings as a result of climate change and exacerbation of urban heat islands. <i>Building and Environment</i> , 2014 , 78, 81-88	6.5	62
67	Effect of variable duty cycle flow pulsations on heat transfer enhancement for an impinging air jet. <i>International Journal of Heat and Fluid Flow</i> , 1999 , 20, 574-580	2.4	62
66	Experimental and numerical investigation of urban street canyons to evaluate the impact of green roof inside and outside buildings. <i>Applied Energy</i> , 2014 , 114, 273-282	10.7	61

65	Heat mitigation strategies in winter and summer: Field measurements in temperate climates. <i>Building and Environment</i> , 2014 , 81, 309-319	6.5	50
64	Development and application of a building energy performance metric for green roof systems. <i>Energy and Buildings</i> , 2013 , 60, 262-269	7	45
63	The urban heat island Mitigation Impact Screening Tool (MIST). <i>Environmental Modelling and Software</i> , 2007 , 22, 1529-1541	5.2	43
62	Potential energy and climate benefits of super-cool materials as a rooftop strategy. <i>Urban Climate</i> , 2019 , 29, 100495	6.8	42
61	Field measurement of albedo for limited extent test surfaces. <i>Solar Energy</i> , 2006 , 80, 589-599	6.8	40
60	Simulations of annual degree day impacts of urban vegetative augmentation. <i>Atmospheric Environment</i> , 1998 , 32, 43-52	5.3	38
59	Correcting aggregate energy consumption data to account for variability in local weather. <i>Environmental Modelling and Software</i> , 2006 , 21, 733-738	5.2	37
58	A Semiempirical Downscaling Approach for Predicting Regional Temperature Impacts Associated with Climatic Change. <i>Journal of Climate</i> , 1999 , 12, 103-114	4.4	37
57	Direct and indirect effects of high-albedo roofs on energy consumption and thermal comfort of residential buildings. <i>Energy and Buildings</i> , 2018 , 178, 71-83	7	36
56	Urban heat and air pollution: A framework for integrating population vulnerability and indoor exposure in health risk analyses. <i>Science of the Total Environment</i> , 2019 , 660, 715-723	10.2	35
55	Water Cooling Method to Improve the Performance of Field-Mounted, Insulated, and Concentrating Photovoltaic Modules. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2014 , 136,	2.3	34
54	The impact of heat mitigation strategies on the energy balance of a neighborhood in Los Angeles. <i>Solar Energy</i> , 2019 , 177, 604-611	6.8	30
53	Effects of urbanization on regional meteorology and air quality in Southern California. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4439-4457	6.8	28
52	Modeling the reduction of urban excess heat by green roofs with respect to different irrigation scenarios. <i>Building and Environment</i> , 2018 , 131, 174-183	6.5	28
51	Energy efficiency vs resiliency to extreme heat and power outages: The role of evolving building energy codes. <i>Building and Environment</i> , 2018 , 139, 86-94	6.5	28
50	Effects of substrate depth and precipitation characteristics on stormwater retention by two green roofs in Portland OR. <i>Journal of Hydrology: Regional Studies</i> , 2018 , 18, 110-118	3.6	27
49	Cooling hot cities: a systematic and critical review of the numerical modelling literature. <i>Environmental Research Letters</i> , 2021 , 16, 053007	6.2	27
48	THE EFFECT OF MICROENCAPSULATED PHASE-CHANGE MATERIAL ON THE COMPRESSIVE STRENGTH OF STRUCTURAL CONCRETE. <i>Journal of Green Building</i> , 2013 , 8, 116-124	1.3	26

47	Daytime Variation of Urban Heat Islands: The Case Study of Doha, Qatar. <i>Climate</i> , 2016 , 4, 32	3.1	26
46	The Observed Effects of Utility-Scale Photovoltaics on Near-Surface Air Temperature and Energy Balance. <i>Journal of Applied Meteorology and Climatology</i> , 2019 , 58, 989-1006	2.7	25
45	Synergies and trade-offs between energy efficiency and resiliency to extreme heat A case study. <i>Building and Environment</i> , 2018 , 132, 263-272	6.5	25
44	Thermal footprint effect of rooftop urban cooling strategies. <i>Urban Climate</i> , 2015 , 14, 268-277	6.8	25
43	Effectiveness of indoor plants for passive removal of indoor ozone. <i>Building and Environment</i> , 2017 , 119, 62-70	6.5	24
42	Pulse Combustion: Impinging Jet Heat Transfer Enhancement 1 This work was performed at the Combustion Research Facility, Sandia National Laboratories, supported by the U.S. Department of Energy, Office of Industrial Technologies, Advanced Industrial Concepts Division.. <i>Combustion Science and Technology</i> , 1999 , 94, 147-165	1.5	24
41	The growing threat of heat disasters. <i>Environmental Research Letters</i> , 2019 , 14, 054006	6.2	23
40	Biometeorology for cities. <i>International Journal of Biometeorology</i> , 2017 , 61, 59-69	3.7	21
39	A modelling methodology for assessing the impact of climate variability and climatic change on hydroelectric generation. <i>Energy Conversion and Management</i> , 1998 , 39, 1459-1469	10.6	21
38	Comparative estimates of anthropogenic heat emission in relation to surface energy balance of a subtropical urban neighborhood. <i>Atmospheric Environment</i> , 2016 , 126, 182-191	5.3	19
37	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	5.3	19
36	Effect of fiber material on ozone removal and carbonyl production from carpets. <i>Atmospheric Environment</i> , 2017 , 148, 42-48	5.3	19
35	Natural gas consumption and climate: a comprehensive set of predictive state-level models for the United States. <i>Energy</i> , 1998 , 23, 91-103	7.9	19
34	Passive survivability of buildings under changing urban climates across eight US cities. <i>Environmental Research Letters</i> , 2019 , 14, 074028	6.2	17
33	Transforming a passive house into a net-zero energy house: a case study in the Pacific Northwest of the U.S.. <i>Energy Conversion and Management</i> , 2018 , 172, 39-49	10.6	17
32	Improving Heat-Related Health Outcomes in an Urban Environment with Science-Based Policy. <i>Sustainability</i> , 2016 , 8, 1015	3.6	16
31	Measuring the Effect of Vegetated Roofs on the Performance of Photovoltaic Panels in a Combined System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2016 , 138,	2.3	16
30	Effectiveness of phase change materials for improving the resiliency of residential buildings to extreme thermal conditions. <i>Solar Energy</i> , 2019 , 188, 190-199	6.8	15

29	Application of tree-structured regression for regional precipitation prediction using general circulation model output. <i>Climate Research</i> , 2000 , 16, 17-30	1.6	15
28	Comparing photovoltaic and reflective shade surfaces in the urban environment: Effects on surface sensible heat flux and pedestrian thermal comfort. <i>Urban Climate</i> , 2019 , 29, 100500	6.8	13
27	Effects of Natural and Manual Cleaning on Photovoltaic Output. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2013 , 135,	2.3	13
26	Impact of evolving building morphology on microclimate in a hot arid climate. <i>Sustainable Cities and Society</i> , 2020 , 54, 102011	10.1	13
25	The impact of urban form on outdoor thermal comfort in hot arid environments during daylight hours, case study: New Aswan. <i>Building and Environment</i> , 2020 , 184, 107222	6.5	13
24	Building energy savings potential of a hybrid roofing system involving high albedo, moisture retaining foam materials. <i>Energy and Buildings</i> , 2018 , 169, 283-294	7	12
23	Introduction, evaluation and application of an energy balance model for photovoltaic modules. <i>Solar Energy</i> , 2020 , 195, 382-395	6.8	11
22	Evaluating the Effects of Radiative Forcing Feedback in Modelling Urban Ozone Air Quality in Portland, Oregon: Two-Way Coupled MM5CMAQ Numerical Model Simulations. <i>Boundary-Layer Meteorology</i> , 2010 , 137, 291-305	3.4	10
21	Ozone removal efficiency and surface analysis of green and white roof HVAC filters. <i>Building and Environment</i> , 2018 , 136, 118-127	6.5	8
20	The relative role of solar reflectance and thermal emittance for passive daytime radiative cooling technologies applied to rooftops. <i>Sustainable Cities and Society</i> , 2021 , 65, 102612	10.1	8
19	Thermal effects of microinverter placement on the performance of silicon photovoltaics. <i>Solar Energy</i> , 2016 , 125, 444-452	6.8	6
18	Between aspiration and actuality: A systematic review of morphological heat mitigation strategies in hot urban deserts. <i>Urban Climate</i> , 2020 , 31, 100570	6.8	5
17	MEETING SUMMARIES. <i>Bulletin of the American Meteorological Society</i> , 2008 , 89, 1727-1734	6.1	5
16	Effectiveness of Mechanical Air Conditioning as a Protective Factor Against Indoor Exposure to Heat Among the Elderly. <i>ASME Journal of Engineering for Sustainable Buildings and Cities</i> , 2020 , 1,	0.4	5
15	A Case-Crossover Analysis of Indoor Heat Exposure on Mortality and Hospitalizations among the Elderly in Houston, Texas. <i>Environmental Health Perspectives</i> , 2020 , 128, 127007	8.4	4
14	Indoor air quality and thermal comfort for elderly residents in Houston TX case study 2018 ,		4
13	Effects of Rooftop Photovoltaics on Building Cooling Demand and Sensible Heat Flux Into the Environment for an Installation on a White Roof. <i>ASME Journal of Engineering for Sustainable Buildings and Cities</i> , 2020 , 1,	0.4	4
12	Urban Heat Implications from Parking, Roads, and Cars: a Case Study of Metro Phoenix. <i>Sustainable and Resilient Infrastructure</i> , 2020 , 1-19	3.3	3

11	Phase Change Materials as Thermal Storage for High Performance Homes 2011 ,		3
10	Photovoltaics in the built environment: A critical review. <i>Energy and Buildings</i> , 2021 , 253, 111479	7	3
9	Heat and Cold Roses of U.S. Cities: a New Tool for Optimizing Urban Climate. <i>Sustainable Cities and Society</i> , 2019 , 51, 101777	10.1	2
8	Potential overall heat exposure reduction associated with implementation of heat mitigation strategies in Los Angeles. <i>International Journal of Biometeorology</i> , 2021 , 65, 407-418	3.7	2
7	Energy Buildings and Urban Environment 2013 , 167-182		1
6	Corrections to the Mathematical Formulation of a Backwards Lagrangian Particle Dispersion Model. <i>Boundary-Layer Meteorology</i> , 2012 , 145, 399-406	3.4	1
5	The Potential Impact of Cool Roof Technologies upon Heat Wave Meteorology and Human Health in Boston and Chicago 2020 , 1-27		1
4	Technical Research Needs for Sustainable Buildings: Results from a Multidisciplinary NSF Workshop. <i>Journal of Green Building</i> , 2009 , 4, 101-112	1.3	1
3	Role of pavement radiative and thermal properties in reducing excess heat in cities. <i>Solar Energy</i> , 2021 ,	6.8	1
2	Increasing trees and high-albedo surfaces decreases heat impacts and mortality in Los Angeles, CA.. <i>International Journal of Biometeorology</i> , 2022 , 1	3.7	1
1	A new perspective for understanding actual anthropogenic heat emissions from buildings. <i>Energy and Buildings</i> , 2022 , 258, 111860	7	0