

Micrometeorological determinants of pedestrian thermal
record-breaking heat in Tempe, Arizona: Introducing the

Science of the Total Environment

687, 137-151

DOI: [10.1016/j.scitotenv.2019.06.085](https://doi.org/10.1016/j.scitotenv.2019.06.085)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Effects of natural and artificial shade on human thermal comfort in residential neighborhood parks of Phoenix, Arizona, USA. <i>Urban Forestry and Urban Greening</i> , 2019, 44, 126429.	2.3	56
2	A Review on interdisciplinary methods for the characterization of thermal perception in public spaces. <i>Journal of Physics: Conference Series</i> , 2019, 1343, 012007.	0.3	3
3	Integrating four radiant heat load mitigation strategies is an efficient intervention to improve human health in urban environments. <i>Science of the Total Environment</i> , 2020, 698, 134259.	3.9	21
4	Field assessment of winter outdoor 3-D radiant environment and its impact on thermal comfort in a severely cold region. <i>Science of the Total Environment</i> , 2020, 709, 136175.	3.9	27
5	Field Assessment of Neighboring Building and Tree Shading Effects on the 3D Radiant Environment and Human Thermal Comfort in Summer within Urban Settlements in Northeast China. <i>Advances in Meteorology</i> , 2020, 2020, 1-19.	0.6	8
6	Summer thermal comfort in Czech cities: measured effects of blue and green features in city centres. <i>International Journal of Biometeorology</i> , 2021, 65, 1277-1289.	1.3	36
7	Intra-urban differences of outdoor thermal comfort in Ghent on seasonal level and during record-breaking 2019 heat wave. <i>Building and Environment</i> , 2020, 185, 107103.	3.0	31
8	Validation of seasonal mean radiant temperature simulations in hot arid urban climates. <i>Science of the Total Environment</i> , 2020, 749, 141392.	3.9	58
9	The Best Urban Trees for Daytime Cooling Leave Nights Slightly Warmer. <i>Forests</i> , 2020, 11, 945.	0.9	13
10	The motley drivers of heat and cold exposure in 21st century US cities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21108-21117.	3.3	51
11	Improving City Vitality through Urban Heat Reduction with Green Infrastructure and Design Solutions: A Systematic Literature Review. <i>Buildings</i> , 2020, 10, 219.	1.4	15
12	Solar reflective pavements—A policy panacea to heat mitigation?. <i>Environmental Research Letters</i> , 2020, 15, 064016.	2.2	60
13	Impacts of form and design policies on urban microclimate: Assessment of zoning and design guideline choices in urban redevelopment projects. <i>Landscape and Urban Planning</i> , 2020, 202, 103870.	3.4	38
14	Associations between urban thermal environment and physical indicators based on meteorological data in Foshan City. <i>Sustainable Cities and Society</i> , 2020, 60, 102288.	5.1	12
15	Allometric scaling of thermal infrared emitted from UK cities and its relation to urban form. <i>City and Environment Interactions</i> , 2020, 5, 100037.	1.8	4
16	A multi-layer urban canopy meteorological model with trees (BEP-Tree): Street tree impacts on pedestrian-level climate. <i>Urban Climate</i> , 2020, 32, 100590.	2.4	85
17	Assessment of “up-design”’s impact on thermal perceptions in the transition process from indoor to outdoor. <i>Sustainable Cities and Society</i> , 2020, 56, 102081.	5.1	17
18	Rational design of sun and wind shaded evaporative cooling vests for enhanced personal cooling in hot and dry climates. <i>Applied Thermal Engineering</i> , 2020, 171, 115122.	3.0	20

#	ARTICLE	IF	CITATIONS
19	The cooling efficiency of variable greenery coverage ratios in different urban densities: A study in a subtropical climate. <i>Building and Environment</i> , 2020, 174, 106772.	3.0	86
20	Seasonal and meteorological effects on the cooling magnitude of trees in subtropical climate. <i>Building and Environment</i> , 2020, 177, 106911.	3.0	15
21	Solar elevation impact on the heat stress mitigation of pedestrians on tree-lined sidewalks of E-W street canyons – Analysis under Central European heat wave conditions. <i>Urban Forestry and Urban Greening</i> , 2021, 58, 126905.	2.3	17
22	Evaluating radiant heat in an outdoor urban environment: Resolving spatial and temporal variations with two sensing platforms and data-driven simulation. <i>Urban Climate</i> , 2021, 35, 100745.	2.4	13
23	High-Resolution Modelling of Thermal Exposure during a Hot Spell: A Case Study Using PALM-4U in Prague, Czech Republic. <i>Atmosphere</i> , 2021, 12, 175.	1.0	27
24	Application of the UTCI in High-Resolution Urban Climate Modeling Techniques. , 2021, , 177-191.		0
25	Project Coolbit: can your watch predict heat stress and thermal comfort sensation?. <i>Environmental Research Letters</i> , 2021, 16, 034031.	2.2	44
26	The role of blue and green infrastructure in thermal sensation in public urban areas: A case study of summer days in four Czech cities. <i>Sustainable Cities and Society</i> , 2021, 66, 102683.	5.1	31
27	A regression-based three-phase approach to assess outdoor thermal comfort in informal micro-entrepreneurial settings in tropical Mumbai. <i>International Journal of Biometeorology</i> , 2022, 66, 313-329.	1.3	6
28	Mapping Local Climate Zones and Their Applications in European Urban Environments: A Systematic Literature Review and Future Development Trends. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 260.	1.4	42
29	Thermal comfort assessment over the past two decades in different landscape areas within Palembang City. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 724, 012010.	0.2	1
30	Piloting urban ecosystem accounting for the United States. <i>Ecosystem Services</i> , 2021, 48, 101226.	2.3	20
31	Improved methods for estimating mean radiant temperature in hot and sunny outdoor settings. <i>International Journal of Biometeorology</i> , 2021, 65, 967-983.	1.3	31
32	Thermal-irradiant performance of green infrastructure typologies: Field measurement study in a subtropical climate city. <i>Science of the Total Environment</i> , 2021, 764, 144635.	3.9	19
33	50 Grades of Shade. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1805-E1820.	1.7	44
34	Cooling hot cities: a systematic and critical review of the numerical modelling literature. <i>Environmental Research Letters</i> , 2021, 16, 053007.	2.2	85
35	Wearable sensing techniques to understand pedestrian-level outdoor microclimate affecting heat related risk in urban parks. <i>Solar Energy</i> , 2022, 242, 397-412.	2.9	9
36	Comparison and modification of measurement and simulation techniques for estimating Tmrt in summer and winter in a severely cold region. <i>Building and Environment</i> , 2021, 199, 107918.	3.0	12

#	ARTICLE	IF	CITATIONS
37	A Mobile Vehicle-Based Methodology for Dynamic Microclimate Analysis. <i>International Journal of Environmental Research</i> , 2021, 15, 893-901.	1.1	10
38	Quantifying the Effect of Building Shadowing and Cloudiness on Mean Radiant Temperature in Singapore. <i>Atmosphere</i> , 2021, 12, 1012.	1.0	7
39	Comparison between mental mapping and land surface temperature in two Czech cities: A new perspective on indication of locations prone to heat stress. <i>Building and Environment</i> , 2021, 203, 108090.	3.0	8
40	Technological opportunities for sensing of the health effects of weather and climate change: a state-of-the-art-review. <i>International Journal of Biometeorology</i> , 2021, 65, 779-803.	1.3	19
41	Urban Heatwaves and Thermal Remote Sensing. , 2021, , .		0
42	Identifying the need for locally-observed wet bulb globe temperature across outdoor athletic venues for current and future climates in a desert environment. <i>Environmental Research Letters</i> , 0, , .	2.2	6
43	Evaluating the thermal-radiative performance of ENVI-met model for green infrastructure typologies: Experience from a subtropical climate. <i>Building and Environment</i> , 2022, 207, 108427.	3.0	45
44	Urban cooling strategies as interaction opportunities in the public space: a methodological proposal. <i>Journal of Physics: Conference Series</i> , 2021, 2042, 012128.	0.3	1
46	Anisotropic radiation source models for computational thermal manikin simulations based on common radiation field measurements. <i>Building and Environment</i> , 2022, 208, 108636.	3.0	4
47	Summer thermal comfort of pedestrians in diverse urban settings: A mobile study. <i>Building and Environment</i> , 2022, 208, 108600.	3.0	17
48	Applicability of mobile-measurement strategies to different periods: A field campaign in a precinct with a block park. <i>Building and Environment</i> , 2022, 211, 108762.	3.0	7
49	More than surface temperature: mitigating thermal exposure in hyper-local land system. <i>Journal of Land Use Science</i> , 2022, 17, 79-99.	1.0	18
50	A microscale three-dimensional model of urban outdoor thermal exposure (TUF-Pedestrian). <i>International Journal of Biometeorology</i> , 2022, 66, 833-848.	1.3	15
51	Measuring and comparing thermal comfort in outdoor and semi-outdoor spaces in tropical Singapore. <i>Urban Climate</i> , 2022, 42, 101122.	2.4	17
52	Hemispherical Photographs: A Review of Acquisition Methods and Applications in the Context of Urban Energy and Environment Assessments. , 2022, 1, .		2
53	Biometeorological conditions during hot summer days in diverse urban environments of Banja Luka (Bosnia and Herzegovina). <i>Geographica Pannonica</i> , 2022, 26, 29-45.	0.5	8
54	Evidence of alliesthesia during a neighborhood thermal walk in a hot and dry city. <i>Science of the Total Environment</i> , 2022, 834, 155294.	3.9	15
56	MaRTinyâ€™ A Low-Cost Biometeorological Sensing Device With Embedded Computer Vision for Urban Climate Research. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	5

#	ARTICLE	IF	CITATIONS
57	Urban Climate Informatics: An Emerging Research Field. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	14
58	Designing thermally sensitive public spaces: an analysis through urban design media. <i>Journal of Urban Design</i> , 0, , 1-22.	0.6	1
59	Extreme Heat Impacts on the Viability of Alternative Transportation for Reducing Ozone Pollution: A Case Study from Maricopa County, Arizona. <i>Weather, Climate, and Society</i> , 2022, 14, 905-917.	0.5	2
61	How Do Trees Affect the Microclimate of Urban Streets? Observations and Numerical Evaluation in a Highly Compact City. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
62	Enhanced human heat exposure in summer in a Central European courtyard subsequently roofed with transparent ETFE foil cushions. <i>Urban Climate</i> , 2022, 44, 101210.	2.4	7
63	An expert assessment on playspace designs and thermal environments in a Canadian context. <i>Urban Climate</i> , 2022, 44, 101235.	2.4	1
64	The characteristics of dynamic and non-uniform thermal radiation experienced by pedestrians in a street canyon. <i>Building and Environment</i> , 2022, 222, 109361.	3.0	11
65	Quantifying the effect of ground view factor and ground temperature on outdoor mean radiant temperature. <i>Sustainable Cities and Society</i> , 2022, 84, 104030.	5.1	3
66	Resolving Radiant: Combining Spatially Resolved Longwave and Shortwave Measurements to Improve the Understanding of Radiant Heat Flux Reflections and Heterogeneity. <i>Frontiers in Sustainable Cities</i> , 0, 4, .	1.2	1
67	Thermophysiological aspects of wearable robotics: Challenges and opportunities. <i>Temperature</i> , 2023, 10, 313-325.	1.7	1
68	Integrated Assessment of Urban Overheating Impacts on Human Life. <i>Earth's Future</i> , 2022, 10, .	2.4	39
69	High-fidelity simulation of the effects of street trees, green roofs and green walls on the distribution of thermal exposure in Prague-Dejvice. <i>Building and Environment</i> , 2022, 223, 109484.	3.0	12
70	Woody invaders from contrasted climatic origins distribute differently across the urban-to-rural gradient in oceanic Europe – Is it trait-related?. <i>Urban Forestry and Urban Greening</i> , 2022, 75, 127694.	2.3	1
71	A study of subtropical park thermal comfort and its influential factors during summer. <i>Journal of Thermal Biology</i> , 2022, 109, 103304.	1.1	12
72	Isolating the impacts of urban form and fabric from geography on urban heat and human thermal comfort. <i>Building and Environment</i> , 2022, 224, 109502.	3.0	9
73	Environmental mobile monitoring of urban microclimates: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 169, 112847.	8.2	11
74	How do street trees affect urban temperatures and radiation exchange? Observations and numerical evaluation in a highly compact city. <i>Urban Climate</i> , 2022, 46, 101288.	2.4	10
75	PanoMRT: Panoramic Infrared Thermography to Model Human Thermal Exposure and Comfort. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
76	The significance of shade provision in reducing street-level summer heat stress in a hot Mediterranean climate. <i>Landscape and Urban Planning</i> , 2023, 229, 104588.	3.4	9
77	Human body radiation area factors for diverse adult population. <i>International Journal of Biometeorology</i> , 2022, 66, 2357-2367.	1.3	4
78	Transformational IoT sensing for air pollution and thermal exposures. <i>Frontiers in Built Environment</i> , 0, 8, .	1.2	12
79	Maximizing the pedestrian radiative cooling benefit per street tree. <i>Landscape and Urban Planning</i> , 2023, 230, 104608.	3.4	25
80	Experiential Value, Place Attachment, and Environmentally Responsible Behavior of Forest Health Tourism—A Case of China. <i>Forests</i> , 2022, 13, 1855.	0.9	3
81	Research Progress and Hotspot Evolution Analysis of Landscape Microclimate: Visual Analysis Based on CNKI and WOS. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 15118.	1.2	2
82	Beyond heat exposure — new methods to quantify and link personal heat exposure, stress, and strain in diverse populations and climates: The journal <i>Temperature</i> toolbox. <i>Temperature</i> , 2023, 10, 358-378.	1.7	4
83	PanoMRT: Panoramic infrared thermography to model human thermal exposure and comfort. <i>Science of the Total Environment</i> , 2023, 859, 160301.	3.9	1
84	Street-level heat and air pollution exposure informed by mobile sensing. <i>Transportation Research, Part D: Transport and Environment</i> , 2022, 113, 103535.	3.2	5
85	STMRT: A simple tree canopy radiative transfer model for outdoor mean radiant temperature. <i>Building and Environment</i> , 2023, 228, 109846.	3.0	3
86	A fast and accurate mean radiant temperature model for courtyards: Evidence from the Keyuan Garden in central Guangdong, China. <i>Building and Environment</i> , 2023, 229, 109916.	3.0	7
87	Micrometeorological measurements and biometeorological survey in different urban settings of Novi Sad (Serbia). <i>Glasnik - Srpskog Geografskog Drustva</i> , 2022, 102, 45-66.	0.0	1
88	Effects of Urban Park on Thermal Comfort in Summer — An Analysis of Microclimate Data of Seoul Forest Park —. <i>Journal of the Korean Institute of Landscape Architecture</i> , 2022, 50, 30-41.	0.1	0
89	Thermal comfort in urban areas on hot summer days and its improvement through participatory mapping: A case study of two Central European cities. <i>Landscape and Urban Planning</i> , 2023, 233, 104713.	3.4	5
90	Evaluating the performance of cool pavements for urban heat island mitigation under realistic conditions: A systematic review and meta-analysis. <i>Urban Climate</i> , 2023, 49, 101470.	2.4	8
91	High-resolution thermal exposure and shade maps for cool corridor planning. <i>Sustainable Cities and Society</i> , 2023, 93, 104499.	5.1	4
93	Field assessments of mean radiant temperature estimation methods at beach areas: A case study of Hailing Island, China. <i>Building and Environment</i> , 2023, 232, 110039.	3.0	2
94	Daily variation of ground radiation in unshaded and shaded environments and the effect on mean radiant temperature. <i>Case Studies in Thermal Engineering</i> , 2023, 43, 102791.	2.8	3

#	ARTICLE	IF	CITATIONS
95	Effectiveness of travel behavior and infrastructure change to mitigate heat exposure. <i>Frontiers in Sustainable Cities</i> , 0, 5, .	1.2	3
96	Evidence-based guidance on reflective pavement for urban heat mitigation in Arizona. <i>Nature Communications</i> , 2023, 14, .	5.8	9
97	Assessment of urban green areas towards changing surface energy balance fluxes in tropical study sites, Central Thailand. <i>Environmental Challenges</i> , 2023, 11, 100715.	2.0	2
98	Establishing a baseline for thermal stress conditions – A high-resolution radiative perspective. <i>Urban Climate</i> , 2023, 49, 101523.	2.4	3
102	A Parametric Tool for Outdoor Shade Design: Harnessing Quantitative Indices and Visual Feedback for Effective and Efficient Climatic Design of Streets. <i>Communications in Computer and Information Science</i> , 2023, , 302-316.	0.4	0