

Ariane Middel

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

3,814
citations

126858

33
h-index

133188

59
g-index

78
all docs

78
docs citations

78
times ranked

3016
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of urban form and design on mid-afternoon microclimate in Phoenix Local Climate Zones. <i>Landscape and Urban Planning</i> , 2014, 122, 16-28.	3.4	444
2	Impact of shade on outdoor thermal comfort—a seasonal field study in Tempe, Arizona. <i>International Journal of Biometeorology</i> , 2016, 60, 1849-1861.	1.3	222
3	Remote sensing of the surface urban heat island and land architecture in Phoenix, Arizona: Combined effects of land composition and configuration and cadastral—demographic—economic factors. <i>Remote Sensing of Environment</i> , 2016, 174, 233-243.	4.6	185
4	Urban forestry and cool roofs: Assessment of heat mitigation strategies in Phoenix residential neighborhoods. <i>Urban Forestry and Urban Greening</i> , 2015, 14, 178-186.	2.3	182
5	Generating WUDAPT Level 0 data — Current status of production and evaluation. <i>Urban Climate</i> , 2019, 27, 24-45.	2.4	148
6	Urban form and composition of street canyons: A human-centric big data and deep learning approach. <i>Landscape and Urban Planning</i> , 2019, 183, 122-132.	3.4	129
7	Mapping Europe into local climate zones. <i>PLoS ONE</i> , 2019, 14, e0214474.	1.1	123
8	Micrometeorological determinants of pedestrian thermal exposure during record-breaking heat in Tempe, Arizona: Introducing the MaRTy observational platform. <i>Science of the Total Environment</i> , 2019, 687, 137-151.	3.9	120
9	Sky View Factor footprints for urban climate modeling. <i>Urban Climate</i> , 2018, 25, 120-134.	2.4	114
10	Opportunities and Challenges for Personal Heat Exposure Research. <i>Environmental Health Perspectives</i> , 2017, 125, 085001.	2.8	110
11	Assessing local climate zones in arid cities: The case of Phoenix, Arizona and Las Vegas, Nevada. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 141, 59-71.	4.9	97
12	Does the spatial arrangement of urban landscape matter? examples of urban warming and cooling in phoenix and las vegas. <i>Ecosystem Health and Sustainability</i> , 2015, 1, 1-15.	1.5	93
13	Energy saving potential of fragmented green spaces due to their temperature regulating ecosystem services in the summer. <i>Applied Energy</i> , 2016, 183, 1428-1440.	5.1	86
14	Cooling hot cities: a systematic and critical review of the numerical modelling literature. <i>Environmental Research Letters</i> , 2021, 16, 053007.	2.2	85
15	Impacts of green roofs on water, temperature, and air quality: A bibliometric review. <i>Building and Environment</i> , 2021, 196, 107794.	3.0	77
16	Sky View Factors from Synthetic Fisheye Photos for Thermal Comfort Routing—A Case Study in Phoenix, Arizona. <i>Urban Planning</i> , 2017, 2, 19-30.	0.7	76
17	Hot playgrounds and children's health: A multiscale analysis of surface temperatures in Arizona, USA. <i>Landscape and Urban Planning</i> , 2016, 146, 29-42.	3.4	69
18	Quality of Crowdsourced Data on Urban Morphology—The Human Influence Experiment (HUMINEX). <i>Urban Science</i> , 2017, 1, 15.	1.1	67

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19	Evaluating the effect of 3D urban form on neighborhood land surface temperature using Google Street View and geographically weighted regression. <i>Landscape Ecology</i> , 2019, 34, 681-697.	1.9	65
20	The co-production of sustainable future scenarios. <i>Landscape and Urban Planning</i> , 2020, 197, 103744.	3.4	64
21	European Climate Change Perceptions: Public support for mitigation and adaptation policies. <i>Environmental Policy and Governance</i> , 2016, 26, 170-183.	2.1	62
22	Solar reflective pavements—A policy panacea to heat mitigation?. <i>Environmental Research Letters</i> , 2020, 15, 064016.	2.2	60
23	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
24	Understanding the Impact of Urbanization on Surface Urban Heat Islands—A Longitudinal Analysis of the Oasis Effect in Subtropical Desert Cities. <i>Remote Sensing</i> , 2017, 9, 672.	1.8	56
25	Cooling effect of direct green façades during hot summer days: An observational study in Nanjing, China using TIR and 3DPC data. <i>Building and Environment</i> , 2017, 116, 195-206.	3.0	55
26	Modelling the impact of increased street tree cover on mean radiant temperature across Vancouver's local climate zones. <i>Urban Forestry and Urban Greening</i> , 2019, 39, 9-17.	2.3	55
27	Planning for spectator thermal comfort and health in the face of extreme heat: The Tokyo 2020 Olympic marathons. <i>Science of the Total Environment</i> , 2019, 657, 904-917.	3.9	50
28	Urban tree planting to maintain outdoor thermal comfort under climate change: The case of Vancouver's local climate zones. <i>Building and Environment</i> , 2019, 158, 226-236.	3.0	48
29	50 Grades of Shade. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1805-E1820.	1.7	44
30	Pathway using WUDAPT's Digital Synthetic City tool towards generating urban canopy parameters for multi-scale urban atmospheric modeling. <i>Urban Climate</i> , 2019, 28, 100459.	2.4	43
31	Exploring diurnal thermal variations in urban local climate zones with ECOSTRESS land surface temperature data. <i>Remote Sensing of Environment</i> , 2021, 263, 112544.	4.6	40
32	Cool Pavement Strategies for Urban Heat Island Mitigation in Suburban Phoenix, Arizona. <i>Sustainability</i> , 2019, 11, 4452.	1.6	39
33	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
34	Tradeoffs Between Water Conservation and Temperature Amelioration In Phoenix and Portland: Implications For Urban Sustainability. <i>Urban Geography</i> , 2012, 33, 1030-1054.	1.7	37
35	Outdoor thermal comfort in various microentrepreneurial settings in hot humid tropical Kolkata: Human biometeorological assessment of objective and subjective parameters. <i>Science of the Total Environment</i> , 2020, 721, 137741.	3.9	37
36	Land cover, climate, and the summer surface energy balance in Phoenix, AZ, and Portland, OR. <i>International Journal of Climatology</i> , 2012, 32, 2020-2032.	1.5	35

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37	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
38	Biometeorology for cities. <i>International Journal of Biometeorology</i> , 2017, 61, 59-69.	1.3	28
39	Microclimate Variation and Estimated Heat Stress of Runners in the 2020 Tokyo Olympic Marathon. <i>Atmosphere</i> , 2018, 9, 192.	1.0	28
40	Investigation of extensive green roof outdoor spatio-temporal thermal performance during summer in a subtropical monsoon climate. <i>Science of the Total Environment</i> , 2019, 696, 133976.	3.9	27
41	Heat exposure during outdoor activities in the US varies significantly by city, demography, and activity. <i>Health and Place</i> , 2018, 54, 1-10.	1.5	26
42	Impact of 3-D urban landscape patterns on the outdoor thermal environment: A modelling study with SOLWEIG. <i>Computers, Environment and Urban Systems</i> , 2022, 94, 101773.	3.3	23
43	Sensor lag correction for mobile urban microclimate measurements. <i>Urban Climate</i> , 2015, 14, 622-635.	2.4	22
44	Daytime cooling efficiency and diurnal energy balance in Phoenix, Arizona, USA. <i>Climate Research</i> , 2012, 54, 21-34.	0.4	22
45	Piloting urban ecosystem accounting for the United States. <i>Ecosystem Services</i> , 2021, 48, 101226.	2.3	20
46	Evaporative misters for urban cooling and comfort: effectiveness and motivations for use. <i>International Journal of Biometeorology</i> , 2022, 66, 357-369.	1.3	19
47	Outdoor thermal performance of green roofs across multiple time scales: A case study in subtropical China. <i>Sustainable Cities and Society</i> , 2021, 70, 102909.	5.1	19
48	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
49	Sky pixel detection in outdoor imagery using an adaptive algorithm and machine learning. <i>Urban Climate</i> , 2020, 31, 100572.	2.4	17
50	Mask wearing behavior in hot urban spaces of Novi Sad during the COVID-19 pandemic. <i>Science of the Total Environment</i> , 2022, 815, 152782.	3.9	16
51	Evaluating the impact of solar radiation on pediatric heat balance within enclosed, hot vehicles. <i>Temperature</i> , 2018, 5, 276-292.	1.6	15
52	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
53	How are cities planning for heat? Analysis of United States municipal plans. <i>Environmental Research Letters</i> , 2022, 17, 064054.	2.2	15
54	Thermally resilient communities: creating a socio-technical collaborative response to extreme temperatures. <i>Buildings and Cities</i> , 2020, 1, 218-232.	1.1	14

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55	Urban Climate Informatics: An Emerging Research Field. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	14
56	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
57	Training Computers to See the Built Environment Related to Physical Activity: Detection of Microscale Walkability Features Using Computer Vision. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4548.	1.2	12
58	Transpirational cooling and physiological responses of trees to heat. <i>Agricultural and Forest Meteorology</i> , 2022, 320, 108940.	1.9	12
59	Desert New Urbanism: testing for comfort in downtown Tempe, Arizona. <i>Journal of Urban Design</i> , 2016, 21, 746-763.	0.6	10
60	Cities of the Southwest are testbeds for urban resilience. <i>Frontiers in Ecology and the Environment</i> , 2019, 17, 79-80.	1.9	10
61	Change of nutrients, microorganisms, and physical properties of exposed extensive green roof substrate. <i>Science of the Total Environment</i> , 2022, 805, 150344.	3.9	8
62	Land Cover Modification Scenarios and Their Effects on Daytime Heating in the Inner Core Residential Neighborhoods of Phoenix, Arizona. <i>Journal of Urban Technology</i> , 2011, 18, 61-79.	2.5	6
63	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
64	TraVis - A visualization framework for mobile transect data sets in an urban microclimate context. , 2015, , .		5
65	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
66	State of the art in flow visualization in the environmental sciences. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	4
67	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
68	Assessing the Microclimate Effects and Irrigation Water Requirements of Mesic, Oasis, and Xeric Landscapes. <i>Hydrology</i> , 2022, 9, 104.	1.3	4
69	Visualizing the temporal development of thermo-radiative features on ground-based thermographs. <i>Environmental Earth Sciences</i> , 2014, 72, 3781-3793.	1.3	3
70	Global Climate Change Risk and Mitigation Perceptions: A Comparison of Nine Countries. <i>Journal of Sustainable Development</i> , 2016, 9, 214.	0.1	3
71	Estimating Residential Building Types from Demographic Information at a Neighborhood Scale. <i>X Media Publishing</i> , 2009, , 187-202.	0.1	1
72	Urban Water Infrastructure for Cooling: Case Studies from Humid and Arid Cities. <i>Regions</i> , 2017, 306, 20-23.	0.1	0