Helmut Mayer, retd

List of Publications by Year
in descending order

22 papers	4,968 citations	393982 19 h-index	676716 22 g-index
22 all docs	22 docs citations	22 times ranked	3236 citing authors

#	Article	IF	Citations
1	Modelling radiation fluxes in simple and complex environmentsâ€"application of the RayMan model. International Journal of Biometeorology, 2007, 51, 323-334.	1.3	962
2	Modelling radiation fluxes in simple and complex environments: basics of the RayMan model. International Journal of Biometeorology, 2010, 54, 131-139.	1.3	919
3	Numerical study on the effects of aspect ratio and orientation of an urban street canyon on outdoor thermal comfort in hot and dry climate. Building and Environment, 2006, 41, 94-108.	3.0	710
4	Air pollution in cities. Atmospheric Environment, 1999, 33, 4029-4037.	1.9	445
5	Effects of asymmetry, galleries, overhanging faÃ§ades and vegetation on thermal comfort in urban street canyons. Solar Energy, 2007, 81, 742-754.	2.9	415
6	Contribution of trees and grasslands to the mitigation of human heat stress in a residential district of Freiburg, Southwest Germany. Landscape and Urban Planning, 2016, 148, 37-50.	3.4	352
7	Heat and drought 2003 in Europe: a climate synthesis. Annals of Forest Science, 2006, 63, 569-577.	0.8	253
8	Human thermal comfort in summer within an urban street canyon in Central Europe. Meteorologische Zeitschrift, 2008, 17, 241-250.	0.5	174
9	Modification of Human-Biometeorologically Significant Radiant Flux Densities by Shading as Local Method to Mitigate Heat Stress in Summer within Urban Street Canyons. Advances in Meteorology, 2013, 2013, 1-13.	0.6	97
10	Impacts of street design parameters on human-biometeorological variables. Meteorologische Zeitschrift, 2011, 20, 541-552.	0.5	92
11	Validation of the mean radiant temperature simulated by the RayMan software in urban environments. International Journal of Biometeorology, 2016, 60, 1775-1785.	1.3	83
12	Longâ€term analysis of heat waves in Ukraine. International Journal of Climatology, 2014, 34, 1642-1650.	1.5	73
13	Importance of 3-D radiant flux densities for outdoor human thermal comfort on clear-sky summer days in Freiburg, Southwest Germany. Meteorologische Zeitschrift, 2014, 23, 315-330.	0.5	71
14	Intra-urban differences of mean radiant temperature in different urban settings in Shanghai and implications for heat stress under heat waves: A GIS-based approach. Energy and Buildings, 2016, 130, 829-842.	3.1	68
15	Impact of the spacing between tree crowns on the mitigation of daytime heat stress for pedestrians inside E-W urban street canyons under Central European conditions. Urban Forestry and Urban Greening, 2020, 48, 126558.	2.3	52
16	Maximum extent of human heat stress reduction on building areas due to urban greening. Urban Forestry and Urban Greening, 2018, 32, 154-167.	2.3	46
17	Thermal comfort of pedestrians in an urban street canyon is affected by increasing albedo of building walls. International Journal of Biometeorology, 2018, 62, 1199-1209.	1.3	44
18	Water fluxes within beech stands in complex terrain. International Journal of Biometeorology, 2010, 54, 23-36.	1.3	42

#	Article	IF	Citations
19	Evolution of the air pollution in SW Germany evaluated by the long-term air quality index LAQx. Atmospheric Environment, 2008, 42, 5071-5078.	1.9	26
20	Simulation of drought for a Scots pine forest (Pinus sylvestris L.) in the southern upper Rhine plain. Meteorologische Zeitschrift, 2005, 14, 143-150.	0.5	18
21	Solar elevation impact on the heat stress mitigation of pedestrians on tree-lined sidewalks of E-W street canyons â€“ Analysis under Central European heat wave conditions. Urban Forestry and Urban Greening, 2021, 58, 126905.	2.3	17
22	To what extent does the air flow initialisation of the ENVI-met model affect human heat stress simulated in a common street canyon?. International Journal of Biometeorology, 2019, 63, 73-81.	1.3	9