

Gerald Mills

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8228100/publications.pdf>

Version: 2024-02-01

67
papers

3,402
citations

136940

32
h-index

144002

57
g-index

86
all docs

86
docs citations

86
times ranked

2521
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling Large-Scale Heatwave by Incorporating Enhanced Urban Representation. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	15
2	The origins of modern urban climate science: reflections on a numerical model of the urban heat island™. Progress in Physical Geography, 2022, 46, 649-656.	3.2	6
3	The impact of green spaces on mental health in urban settings: a scoping review. Journal of Mental Health, 2021, 30, 179-193.	1.9	82
4	Conducting a SUHI study. , 2021, , 131-160.		0
5	Designing an Energy-Resilient Neighbourhood Using an Urban Building Energy Model. Energies, 2021, 14, 4445.	3.1	16
6	Using urban building energy modelling (UBEM) to support the new European Union's Green Deal: Case study of Dublin Ireland. Energy and Buildings, 2021, 247, 111115.	6.7	54
7	The Urban Heat Island: Its Energetic Basis and Management. , 2021, , 23-53.		1
8	Integrating Urban Climate Knowledge: The Need for a New Knowledge Infrastructure to Support Climate-Responsive Urbanism. , 2021, , 183-192.		0
9	Mapping Green Dublin: Co-Creating a Greener Future With Local Communities. Urban Planning, 2021, 6, 96-109.	1.3	4
10	Improving a land surface scheme for estimating sensible and latent heat fluxes above grasslands with contrasting soil moisture zones. Agricultural and Forest Meteorology, 2020, 294, 108151.	4.8	9
11	Combining expert and crowd-sourced training data to map urban form and functions for the continental US. Scientific Data, 2020, 7, 264.	5.3	64
12	Integrated urban hydrometeorological, climate and environmental services: Concept, methodology and key messages. Urban Climate, 2020, 33, 100623.	5.7	37
13	Developing regional calibration coefficients for estimation of hourly global solar radiation in Ireland. International Journal of Sustainable Energy, 2019, 38, 297-311.	2.4	5
14	Pathway using WUDAPT's Digital Synthetic City tool towards generating urban canopy parameters for multi-scale urban atmospheric modeling. Urban Climate, 2019, 28, 100459.	5.7	43
15	Mapping Europe into local climate zones. PLoS ONE, 2019, 14, e0214474.	2.5	123
16	SUHI analysis using Local Climate Zones™ A comparison of 50 cities. Urban Climate, 2019, 28, 100451.	5.7	163
17	Global transferability of local climate zone models. Urban Climate, 2019, 27, 46-63.	5.7	76
18	Comparison between local climate zones maps derived from administrative datasets and satellite observations. Urban Climate, 2019, 27, 64-89.	5.7	49

#	ARTICLE	IF	CITATIONS
19	Generating WUDAPT Level 0 data – Current status of production and evaluation. Urban Climate, 2019, 27, 24-45.	5.7	148
20	WUDAPT: An Urban Weather, Climate, and Environmental Modeling Infrastructure for the Anthropocene. Bulletin of the American Meteorological Society, 2018, 99, 1907-1924.	3.3	254
21	Deriving Lamb weather types suited to regional climate studies: A case study on the synoptic origins of precipitation over Ireland. International Journal of Climatology, 2018, 38, 3439-3448.	3.5	8
22	Interdependent energy relationships between buildings at the street scale. Building Research and Information, 2018, 46, 829-844.	3.9	17
23	Creating sustainable cities one building at a time: Towards an integrated urban design framework. Cities, 2017, 66, 63-71.	5.6	46
24	Land surface temperature climatology over urban surfaces: A blended approach. , 2017, , .		3
25	Developing a Research Strategy to Better Understand, Observe, and Simulate Urban Atmospheric Processes at Kilometer to Subkilometer Scales. Bulletin of the American Meteorological Society, 2017, 98, ES261-ES264.	3.3	40
26	Beyond the urban mask. , 2017, , .		10
27	Quality of Crowdsourced Data on Urban Morphology – The Human Influence Experiment (HUMINEX). Urban Science, 2017, 1, 15.	2.3	67
28	Integration of climate knowledge in urban design and planning. , 2016, , 335-355.		0
29	Simulating the impact of urban development pathways on the local climate: A scenario-based analysis in the greater Dublin region, Ireland. Landscape and Urban Planning, 2016, 152, 72-89.	7.5	50
30	Classification of Local Climate Zones Using SAR and Multispectral Data in an Arid Environment. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3097-3105.	4.9	81
31	Linking urban climate classification with an urban energy and water budget model: Multi-site and multi-seasonal evaluation. Urban Climate, 2016, 17, 196-215.	5.7	37
32	WUDAPT, an efficient land use producing data tool for mesoscale models? Integration of urban LCZ in WRF over Madrid. Urban Climate, 2016, 17, 116-134.	5.7	161
33	Mapping Local Climate Zones for a Worldwide Database of the Form and Function of Cities. ISPRS International Journal of Geo-Information, 2015, 4, 199-219.	2.9	429
34	Using LCZ data to run an urban energy balance model. Urban Climate, 2015, 13, 14-37.	5.7	64
35	Spatial validation of an urban energy balance model using multi-temporal remotely sensed surface temperature. , 2015, , .		1
36	Community initiative tackles urban heat. Nature, 2015, 526, 43-43.	27.8	9

#	ARTICLE	IF	CITATIONS
37	Developing a community-based worldwide urban morphology and materials database (WUDAPT) using remote sensing and crowdsourcing for improved urban climate modelling. , 2015, , .		12
38	Local Climate Classification and Dublin's Urban Heat Island. Atmosphere, 2014, 5, 755-774.	2.3	143
39	Urban climatology: History, status and prospects. Urban Climate, 2014, 10, 479-489.	5.7	80
40	Estimating the wind resource in an urban area: A case study of micro-wind generation potential in Dublin, Ireland. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 118, 44-53.	3.9	37
41	Sustainable urban metabolism as a link between bio-physical sciences and urban planning: The BRIDGE project. Landscape and Urban Planning, 2013, 112, 100-117.	7.5	131
42	The role of urban form as an energy management parameter. Energy Policy, 2013, 53, 218-228.	8.8	35
43	Urban form and function as building performance parameters. Building and Environment, 2013, 62, 112-123.	6.9	49
44	The energy budget of the urban surface: two locations in Dublin. Irish Geography, 2012, 45, 1-23.	0.4	11
45	The 1911 Census and Dublin city: A spatial analysis. Irish Geography, 2011, 44, 245-263.	0.4	7
46	An inventory of trees in Dublin city centre. Irish Geography, 2010, 43, 161-176.	0.4	12
47	Climate Information for Improved Planning and Management of Mega Cities (Needs Perspective). Procedia Environmental Sciences, 2010, 1, 228-246.	1.4	87
48	Micro- and mesoclimatology. Progress in Physical Geography, 2009, 33, 711-717.	3.2	7
49	Luke Howard and <i>The Climate of London</i> . Weather, 2008, 63, 153-157.	0.7	61
50	Cities as agents of global change. International Journal of Climatology, 2007, 27, 1849-1857.	3.5	128
51	Progress toward sustainable settlements: a role for urban climatology. Theoretical and Applied Climatology, 2006, 84, 69-76.	2.8	87
52	Radiation Climatology. , 2005, , 603-611.		1
53	Geography in Ireland in transition—some comments : Introduction. Irish Geography, 2004, 37, 121-144.	0.4	4
54	The geography of Irish voter turnout: A case study of the 2002 general election. Irish Geography, 2004, 37, 177-186.	0.4	14

#	ARTICLE	IF	CITATIONS
55	Urban climate, weather and sustainability. Geophysical Monograph Series, 2004, , 399-410.	0.1	1
56	Ireland's water budgetâ€™ model validation and a greenhouse experiment. Irish Geography, 2001, 34, 124-134.	0.4	27
57	Modelling the water budget of Irelandâ€™ evapotranspiration and soil moisture. Irish Geography, 2000, 33, 99-116.	0.4	25
58	BUILDING DENSITY AND INTERIOR BUILDING TEMPERATURES: A PHYSICAL MODELING EXPERIMENT. Physical Geography, 1997, 18, 195-214.	1.4	14
59	The radiative effects of building groups on single structures. Energy and Buildings, 1997, 25, 51-61.	6.7	32
60	An urban canopy-layer climate model. Theoretical and Applied Climatology, 1997, 57, 229-244.	2.8	71
61	The Role of Mid-Latitude Pacific Cyclones in the Winter Precipitation of Californiaâ€™. Professional Geographer, 1996, 48, 251-262.	1.8	16
62	An analysis of the circulation characteristics and energy budget of a dry, asymmetric, east-west urban canyon. I. Circulation characteristics. International Journal of Climatology, 1994, 14, 119-134.	3.5	30
63	Simulation of the energy budget of an urban canyonâ€™I. Model structure and sensitivity test. Atmospheric Environment Part B Urban Atmosphere, 1993, 27, 157-170.	0.5	36
64	Simulation of the energy budget of an urban canyonâ€™II. Comparison of model results with measurements. Atmospheric Environment Part B Urban Atmosphere, 1993, 27, 171-181.	0.5	15
65	Urban Planning and Urban Design. , 0, , 139-172.		24
66	TOWARDS CONSISTENT MAPPING OF URBAN STRUCTURES â€™ GLOBAL HUMAN SETTLEMENT LAYER AND LOCAL CLIMATE ZONES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B8, 1371-1378.	0.2	17
67	A model framework to investigate the role of anomalous land surface processes in the amplification of summer drought across Ireland during 2018. International Journal of Climatology, 0, , .	3.5	0