Michael Davies

List of Publications by Year
in descending order

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117	9,246	94381 37	42364 92
papers	citations	h-index	g-index

121	121	121	9434
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The 2020 report of The Lancet Countdown on health and climate change: responding to converging crises. Lancet, The, 2021, 397, 129-170.	6.3	1,030
2	The 2019 report of The Lancet Countdown on health and climate change: ensuring that the health of a child born today is not defined by a changing climate. Lancet, The, 2019, 394, 1836-1878.	6.3	905
3	The Lancet Countdown on health and climate change: from 25 years of inaction to a global transformation for public health. Lancet, The, 2018, 391, 581-630.	6.3	802
4	The 2021 report of the Lancet Countdown on health and climate change: code red for a healthy future. Lancet, The, 2021, 398, 1619-1662.	6.3	669
5	Public health benefits of strategies to reduce greenhouse-gas emissions: household energy. Lancet, The, 2009, 374, 1917-1929.	6.3	597
6	Shaping cities for health: complexity and the planning of urban environments in the 21st century. Lancet, The, 2012, 379, 2079-2108.	6.3	596
7	The 2018 report of the Lancet Countdown on health and climate change: shaping the health of nations for centuries to come. Lancet, The, 2018, 392, 2479-2514.	6.3	595
8	Public health benefits of strategies to reduce greenhouse-gas emissions: overview and implications for policy makers. Lancet, The, 2009, 374, 2104-2114.	6.3	451
9	The Lancet Countdown: tracking progress on health and climate change. Lancet, The, 2017, 389, 1151-1164.	6.3	292
10	Building characteristics as determinants of propensity to high indoor summer temperatures in London dwellings. Building and Environment, 2012, 55, 117-130.	3.0	196
11	Impact of climate change on the domestic indoor environment and associated health risks in the UK. Environment International, 2015, 85, 299-313.	4.8	187
12	Modelling the relative importance of the urban heat island and the thermal quality of dwellings for overheating in London. Building and Environment, 2012, 57, 223-238.	3.0	129
13	Mapping changes in housing in sub-Saharan Africa from 2000 to 2015. Nature, 2019, 568, 391-394.	13.7	124
14	Structure and morphology of industrial symbiosis networks: The case of Kalundborg. Procedia, Social and Behavioral Sciences, 2011, 10, 79-89.	0.5	115
15	The significance of the anthropogenic heat emissions of London's buildings: A comparison against captured shortwave solar radiation. Building and Environment, 2009, 44, 807-817.	3.0	108
16	Mapping the effects of urban heat island, housing, and age on excess heat-related mortality in London. Urban Climate, 2015, 14, 517-528.	2.4	105
17	The role of Embeddedness in Industrial Symbiosis Networks: Phases in the Evolution of Industrial Symbiosis Networks. Business Strategy and the Environment, 2011, 20, 281-296.	8.5	98
18	A validated methodology for the prediction of heating and cooling energy demand for buildings within the Urban Heat Island: Case-study of London. Solar Energy, 2010, 84, 2246-2255.	2.9	95

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19	Home energy efficiency and radon related risk of lung cancer: modelling study. BMJ, The, 2014, 348, f7493-f7493.	3.0	88
20	Flood management: Prediction of microbial contamination in large-scale floods in urban environments. Environment International, 2011, 37, 1019-1029.	4.8	87
21	Health effects of home energy efficiency interventions in England: a modelling study. BMJ Open, 2015, 5, e007298-e007298.	0.8	78
22	Exposure to indoor air pollution across socio-economic groups in high-income countries: A scoping review of the literature and a modelling methodology. Environment International, 2020, 143, 105748.	4.8	75
23	Microclimatic effects of green and cool roofs in London and their impacts on energy use for a typical office building. Energy and Buildings, 2015, 88, 214-228.	3.1	74
24	Measured energy use and indoor environment quality in green office buildings in China. Energy and Buildings, 2016, 129, 9-18.	3.1	69
25	Participatory system dynamics modelling for housing, energy and wellbeing interactions. Building Research and Information, 2018, 46, 738-754.	2.0	61
26	Strategies for the modification of the urban climate and the consequent impact on building energy use. Energy Policy, 2008, 36, 4548-4551.	4.2	60
27	Using probabilistic sampling-based sensitivity analyses for indoor air quality modelling. Building and Environment, 2014, 78, 171-182.	3.0	60
28	Urban Health Indicator Tools of the Physical Environment: a Systematic Review. Journal of Urban Health, 2018, 95, 613-646.	1.8	60
29	Transforming cities for sustainability: A health perspective. Environment International, 2021, 147, 106366.	4.8	58
30	Mapping indoor overheating and air pollution risk modification across Great Britain: A modelling study. Building and Environment, 2016, 99, 1-12.	3.0	53
31	Urban energy, carbon management (low carbon cities) and co-benefits for human health. Current Opinion in Environmental Sustainability, 2012, 4, 398-404.	3.1	50
32	Inhabitant actions and summer overheating risk in London dwellings. Building Research and Information, 2017, 45, 119-142.	2.0	47
33	Integrated decision-making about housing, energy and wellbeing: a qualitative system dynamics model. Environmental Health, 2016, 15, 37.	1.7	45
34	Promoting Health and Advancing Development through Improved Housing in Low-Income Settings. Journal of Urban Health, 2013, 90, 810-831.	1.8	44
35	Comparison of built environment adaptations to heat exposure and mortality during hot weather, West Midlands region, UK. Environment International, 2018, 111, 287-294.	4.8	44
36	The social aspects of industrial symbiosis: the application of social network analysis to industrial symbiosis networks. Progress in Industrial Ecology, 2009, 6, 68.	0.1	42

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37	The importance of health co-benefits in macroeconomic assessments of UK Greenhouse Gas emission reduction strategies. Climatic Change, 2013, 121, 223-237.	1.7	40
38	Home energy efficiency and radon: An observational study. Indoor Air, 2019, 29, 854-864.	2.0	39
39	Assessing uncertainty in housing stock infiltration rates andÂassociated heat loss: English and UK case studies. Building and Environment, 2015, 92, 644-656.	3.0	37
40	Multi-objective methods for determining optimal ventilation rates in dwellings. Building and Environment, 2013, 66, 72-81.	3.0	33
41	Health benefits of policies to reduce carbon emissions. BMJ, The, 2020, 368, l6758.	3.0	32
42	A new transdisciplinary research model to investigate and improve the health of the public. Health Promotion International, 2021, 36, 481-492.	0.9	32
43	Overheating in English dwellings: comparing modelled and monitored large-scale datasets. Building Research and Information, 2017, 45, 195-208.	2.0	31
44	Integrating health into the complex urban planning policy and decision-making context: a systems thinking analysis. Palgrave Communications, 2020, 6, .	4.7	31
45	Development of an England-wide indoor overheating and air pollution model using artificial neural networks. Journal of Building Performance Simulation, 2016, 9, 606-619.	1.0	30
46	Application of an indoor air pollution metamodel to a spatially-distributed housing stock. Science of the Total Environment, 2019, 667, 390-399.	3.9	30
47	Cross-sectoral assessment of the performance gap using calibrated building energy performance simulation. Energy and Buildings, 2020, 224, 110271.	3.1	30
48	Results variability in accredited building energy performance compliance demonstration software in the UK: an inter-model comparative study. Journal of Building Performance Simulation, 2010, 3, 63-85.	1.0	29
49	Systemic inequalities in indoor air pollution exposure in London, UK. Buildings and Cities, 2021, 2, 425.	1.1	28
50	Estimating the Influence of Housing Energy Efficiency and Overheating Adaptations on Heat-Related Mortality in the West Midlands, UK. Atmosphere, 2018, 9, 190.	1.0	25
51	Building performance evaluation: Balancing energy and indoor environmental quality in a UK school building. Building Services Engineering Research and Technology, 2020, 41, 343-360.	0.9	25
52	Low carbon building performance in the construction industry: A multi-method approach of project management operations and building energy use applied in a UK public office building. Energy and Buildings, 2020, 206, 109609.	3.1	25
53	The summer indoor temperatures of the English housing stock: Exploring the influence of dwelling and household characteristics. Building Services Engineering Research and Technology, 2019, 40, 492-511.	0.9	24
54	The Effect of Party Wall Permeability on Estimations of Infiltration from Air Leakage. International Journal of Ventilation, 2013, 12, 17-30.	0.2	22

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55	Recommendations for building out mosquito-transmitted diseases in sub-Saharan Africa: the DELIVER mnemonic. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190814.	1.8	22
56	Can the choice of building performance simulation tool significantly alter the level of predicted indoor overheating risk in London flats?. Building Services Engineering Research and Technology, 2019, 40, 30-46.	0.9	20
57	Long-term, continuous air quality monitoring in a cross-sectional study of three UK non-domestic buildings. Building and Environment, 2020, 180, 107071.	3.0	20
58	Monitoring and modelling the risk of summertime overheating and passive solutions to avoid active cooling in London care homes. Energy and Buildings, 2021, 252, 111418.	3.1	20
59	The wicked problem of waste management: An attention-based analysis of stakeholder behaviours. Journal of Cleaner Production, 2021, 326, 129200.	4.6	19
60	The impact of the London Olympic Parkland on the urban heat island. Journal of Building Performance Simulation, 2014, 7, 119-132.	1.0	18
61	Towards a framework to evaluate the â€˜totalâ€™ performance of buildings. Building Services Engineering Research and Technology, 2018, 39, 609-631.	0.9	18
62	MicroEnv: A microsimulation model for quantifying the impacts of environmental policies on population health and health inequalities. Science of the Total Environment, 2019, 697, 134105.	3.9	18
63	Building Performance Evaluation of a New Hospital Building in the UK: Balancing Indoor Environmental Quality and Energy Performance. Atmosphere, 2021, 12, 115.	1.0	16
64	Simulation of pollution transport in buildings: the importance of taking into account dynamic thermal effects. Building Services Engineering Research and Technology, 2014, 35, 682-690.	0.9	15
65	An Exposure-Mortality Relationship for Residential Indoor PM2.5 Exposure from Outdoor Sources. Climate, 2017, 5, 66.	1.2	15
66	Legislating building energy performance: putting EU policy into practice. Building Research and Information, 2012, 40, 305-316.	2.0	14
67	Use of Urban Health Indicator Tools by Built Environment Policy- and Decision-Makers: a Systematic Review and Narrative Synthesis. Journal of Urban Health, 2020, 97, 418-435.	1.8	14
68	Emerging from COVID-19: Lessons for Action on Climate Change and Health in Cities. Journal of Urban Health, 2021, 98, 433-437.	1.8	13
69	Seasonal variations and the influence of ventilation rates on IAQ: A case study of five low-energy London apartments. Indoor and Built Environment, 2022, 31, 607-623.	1.5	13
70	The Challenge of Urban Heat Exposure under Climate Change: An Analysis of Cities in the Sustainable Healthy Urban Environments (SHUE) Database. Climate, 2017, 5, 93.	1.2	12
71	Characteristics and use of urban health indicator tools by municipal built environment policy and decision-makers: a systematic review protocol. Systematic Reviews, 2017, 6, 2.	2.5	11
72	Participatory Action Research as a Framework for Transdisciplinary Collaboration: A Pilot Study on Healthy, Sustainable, Lowâ€Income Housing in Delhi, India. Global Challenges, 2019, 3, 1800054.	1.8	11

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73	What should the ventilation objectives be for retrofit energy efficiency interventions of dwellings?. Building Services Engineering Research and Technology, 2015, 36, 221-229.	0.9	9
74	Low carbon building performance in the construction industry: a multi-method approach of system dynamics and building performance modelling. Construction Management and Economics, 2020, 38, 856-876.	1.8	9
75	A tool for assessing the climate change mitigation and health impacts of environmental policies: the Cities Rapid Assessment Framework for Transformation (CRAFT). Wellcome Open Research, 2020, 5, 269.	0.9	9
76	Covid-19 mobility restrictions: impacts on urban air quality and health. Buildings and Cities, 2021, 2, 759.	1.1	9
77	Predicting the microbial exposure risks in urban floods using GIS, building simulation, and microbial models. Environment International, 2013, 51, 182-195.	4.8	8
78	Using the new CIBSE design summer years to assess overheating in London: Effect of the urban heat island on design. Building Services Engineering Research and Technology, 2015, 36, 115-128.	0.9	8
79	Revisiting an old idea: engineering against vector-borne diseases in the domestic environment. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2019, 113, 53-55.	0.7	8
80	Developing a programme theory for a transdisciplinary research collaboration: Complex Urban Systems for Sustainability and Health. Wellcome Open Research, 2021, 6, 35.	0.9	8
81	Developing a programme theory for a transdisciplinary research collaboration: Complex Urban Systems for Sustainability and Health. Wellcome Open Research, 2021, 6, 35.	0.9	8
82	A tool for assessing the climate change mitigation and health impacts of environmental policies: the Cities Rapid Assessment Framework for Transformation (CRAFT). Wellcome Open Research, 2020, 5, 269.	0.9	8
83	Risk analysis of housing energy efficiency interventions under model uncertainty. Energy and Buildings, 2015, 109, 174-182.	3.1	7
84	Examining the magnitude and perception of summertime overheating in London care homes. Building Services Engineering Research and Technology, 2021, 42, 653-675.	0.9	7
85	Climate change projections for sustainable and healthy cities. Buildings and Cities, 2021, 2, 812.	1.1	7
86	The impact of home energy efficiency interventions and winter fuel payments on winter- and cold-related mortality and morbidity in England: a natural equipment mixed-methods study. Public Health Research, 2018, 6, 1-110.	0.5	7
87	Evaluating Housing Health Hazards: Prevalence, Practices and Priorities in Delhiâ€™s Informal Settlements. Journal of Urban Health, 2020, 97, 502-518.	1.8	6
88	Managing the risk of the energy performance gap in non-domestic buildings. Building Services Engineering Research and Technology, 2022, 43, 57-88.	0.9	6
89	Linking complexity economics and systems thinking, with illustrative discussions of urban sustainability. Cambridge Journal of Economics, 2021, 45, 695-722.	0.8	6
90	Projecting the impacts of housing on temperature-related mortality in London during typical future years. Energy and Buildings, 2021, 249, 111233.	3.1	6

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91	Exploring energy integration between new and existing developments. Building Research and Information, 2010, 38, 593-609.	2.0	5
92	Indoor Environmental Quality of Low-Income Housing in Delhi, India: Findings from a Field Study. Energy Procedia, 2015, 78, 495-500.	1.8	5
93	BSER&T special issue: Overheating and indoor air quality. Building Services Engineering Research and Technology, 2015, 36, 111-114.	0.9	5
94	Strategies for reducing poor indoor air quality and adverse temperature exposure in Delhi's households: A multi-objective assessment. Building Services Engineering Research and Technology, 2015, 36, 230-246.	0.9	5
95	Research agenda for preventing mosquito-transmitted diseases through improving the built environment in sub-Saharan Africa. Cities and Health, 2019, , 1-9.	1.6	5
96	Mortality benefit of building adaptations to protect care home residents against heat risks in the context of uncertainty over loss of life expectancy from heat. Climate Risk Management, 2021, 32, 100307.	1.5	5
97	Evidence-informed urban health and sustainability governance in two Chinese cities. Buildings and Cities, 2021, 2, 550.	1.1	5
98	Relationship-building around a policy decision-support tool for urban health. Buildings and Cities, 2021, 2, 717.	1.1	5
99	Using building simulation to model the drying of flooded building archetypes. Journal of Building Performance Simulation, 2013, 6, 119-140.	1.0	4
100	Managing energy performance in buildings from design to operation using modelling and calibration. Building Services Engineering Research and Technology, 2021, 42, 517-531.	0.9	4
101	Urban Planning. , 2019, , 198-206.		4
102	The CUSSH programme: supporting citiesâ€™ transformational change towards health and sustainability. Wellcome Open Research, 0, 6, 100.	0.9	4
103	Dynamics of short-term and long-term decision-making in English housing associations: A study of using systems thinking to inform policy design. EURO Journal on Decision Processes, 2022, 10, 100017.	1.8	4
104	London's urban heat island: a multi-scaled assessment framework. Proceedings of the Institution of Civil Engineers: Urban Design and Planning, 2013, 166, 164-175.	0.6	3
105	A Comparative Analysis of Global Datasets and Initiatives for Urban Health and Sustainability. Sustainability, 2018, 10, 3636.	1.6	3
106	Urban systems complexity in sustainability and health: an interdisciplinary modelling study. Lancet Planetary Health, The, 2018, 2, S21.	5.1	3
107	Impact of urban health indicators in urban planning policy and decision making: a qualitative system dynamics study. Lancet, The, 2019, 394, S12.	6.3	3
108	The CUSSH programme: learning how to support citiesâ€™ transformational change towards health and sustainability. Wellcome Open Research, 2021, 6, 100.	0.9	3

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109	Healthy communities. Local Environment, 2012, 17, 553-560.	1.1	2
110	The variation of air and surface temperatures in London within a 1km grid using vehicle-transect and ASTER data. , 2017, , .		2
111	Housing, health and energy: a characterisation of risks and priorities across Delhiâ€™s diverse settlements. Cities and Health, 2021, 5, 298-319.	1.6	2
112	A multi-scalar perspective on health and urban housing: an umbrella review. Buildings and Cities, 2021, 2, 734.	1.1	2
113	Environmental Risks of Cities in the European Region: Analyses of the Sustainable Healthy Urban Environments (SHUE) Database. Public Health Panorama, 2019, 3, 300-309.	0.0	2
114	Census, characteristics, and taxonomy of urban health indicator tools: a systematic review. Lancet, The, 2017, 390, S70.	6.3	1
115	Climate action for health and wellbeing in cities: a protocol for the systematic development of a database of peer-reviewed studies using machine learning methods. Wellcome Open Research, 2021, 6, 50.	0.9	1
116	Home energy efficiency under net zero: time to monitor UK indoor air. BMJ, The, 2022, 377, e069435.	3.0	1
117	Climate action for health and wellbeing in cities: systematic development of a database of peer-reviewed studies using machine learning methods. ISEE Conference Abstracts, 2021, 2021, .	0.0	0