Rohinton Emmanuel

List of Publications by Year
in descending order

71 papers	3,156 citations	257101 24 h-index	161609 54 g-index
74 all docs	74 docs citations	74 times ranked	2588 citing authors

#	Article	IF	Citations
1	The influence of urban design on outdoor thermal comfort in the hot, humid city of Colombo, Sri Lanka. International Journal of Biometeorology, 2006, 51, 119-133.	1.3	322
2	Instruments and methods in outdoor thermal comfort studies â€“ The need for standardization. Urban Climate, 2014, 10, 346-366.	2.4	319
3	Urban shadingâ€”a design option for the tropics? A study in Colombo, Sri Lanka. International Journal of Climatology, 2007, 27, 1995-2004.	1.5	253
4	Climate and More Sustainable Cities: Climate Information for Improved Planning and Management of Cities (Producers/Capabilities Perspective). Procedia Environmental Sciences, 2010, 1, 247-274.	1.3	211
5	Thermal comfort implications of urbanization in a warm-humid city: the Colombo Metropolitan Region (CMR), Sri Lanka. Building and Environment, 2005, 40, 1591-1601.	3.0	146
6	Urban heat islands in humid and arid climates: role of urban form and thermal properties in Colombo, Sri Lanka and Phoenix, USA. Climate Research, 2007, 34, 241-251.	0.4	146
7	Urban heat island and its impact on climate change resilience in a shrinking city: The case of Glasgow, UK. Building and Environment, 2012, 53, 137-149.	3.0	143
8	Influence of urban morphology and sea breeze on hot humid microclimate: the case of Colombo, Sri Lanka. Climate Research, 2006, 30, 189-200.	0.4	139
9	Green infrastructure as an adaptation approach to tackling urban overheating in the Glasgow Clyde Valley Region, UK. Landscape and Urban Planning, 2015, 138, 71-86.	3.4	135
10	The impact of urban compactness, comfort strategies and energy consumption on tropical urban heat island intensity: A review. Sustainable Cities and Society, 2018, 40, 677-687.	5.1	134
11	A â€œLocal Climate Zoneâ€•based approach to urban planning in Colombo, Sri Lanka. Urban Climate, 2018, 23, 188-203.	2.4	91
12	Climate Information for Improved Planning and Management of Mega Cities (Needs Perspective). Procedia Environmental Sciences, 2010, 1, 228-246.	1.3	87
13	Urban heat island and differences in outdoor comfort levels in Glasgow, UK. Theoretical and Applied Climatology, 2013, 112, 127-141.	1.3	82
14	Estimating the environmental suitability of wall materials: preliminary results from Sri Lanka. Building and Environment, 2004, 39, 1253-1261.	3.0	74
15	Design and Implementation of a Cloud Enabled Random Neural Network-Based Decentralized Smart Controller With Intelligent Sensor Nodes for HVAC. IEEE Internet of Things Journal, 2017, 4, 393-403.	5.5	72
16	Occupancy detection in non-residential buildings â€“ A survey and novel privacy preserved occupancy monitoring solution. Applied Computing and Informatics, 2021, 17, 279-295.	3.7	56
17	Impact of Urban Vegetation on Outdoor Thermal Comfort: Comparison between a Mediterranean City (Lecce, Italy) and a Northern European City (Lahti, Finland). Forests, 2020, 11, 228.	0.9	50
18	Urban vegetational change as an indicator of demographic trends in cities: the case of Detroit. Environment and Planning B: Planning and Design, 1997, 24, 415-426.	1.7	49

#	Article	IF	Citations
19	Creating sustainable cities one building at a time: Towards an integrated urban design framework. Cities, 2017, 66, 63-71.	2.7	46
20	Assessment of daytime outdoor comfort levels in and outside the urban area of Glasgow, UK. International Journal of Biometeorology, 2013, 57, 521-533.	1.3	38
21	A Hypothetical â€˜Shadow Umbrellaâ€™ for Thermal Comfort Enhancement in the Equatorial Urban Outdoors. Architectural Science Review, 1993, 36, 173-184.	1.1	36
22	An Urban Approach To Climate Sensitive Design. , 0, , .		36
23	Accounting for atmospheric stability conditions in urban heat island studies: The case of Glasgow, UK. Landscape and Urban Planning, 2013, 117, 112-121.	3.4	29
24	Mapping sustainability assessment with the project life cycle. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2011, 164, 143-157.	0.4	28
25	Heat recovery from air in underground transport tunnels. Renewable Energy, 2016, 96, 843-849.	4.3	26
26	The durability of building materials under a changing climate. Wiley Interdisciplinary Reviews: Climate Change, 2016, 7, 590-599.	3.6	23
27	Experimental testing of a random neural network smart controller using a single zone test chamber. IET Networks, 2015, 4, 350-358.	1.1	21
28	Energy demand prediction through novel random neural network predictor for large non-domestic buildings. , 2017, , .		20
29	Connecting the realms of urban form, density and microclimate. Building Research and Information, 2018, 46, 804-808.	2.0	19
30	Compatibility of local climate zone parameters for climate sensitive street design: Influence of openness and surface properties on local climate. Urban Climate, 2020, 33, 100642.	2.4	19
31	A Conceptual Framework to Design Green Infrastructure: Ecosystem Services as an Opportunity for Creating Shared Value in Ground Photovoltaic Systems. Land, 2020, 9, 238.	1.2	18
32	A spatial exploration of deprivation and green infrastructure ecosystem services within Glasgow city. Urban Forestry and Urban Greening, 2020, 52, 126698.	2.3	18
33	Comparison of the Robustness of RNN, MPC and ANN Controller for Residential Heating System. , 2014, , .		17
34	Interdependent energy relationships between buildings at the street scale. Building Research and Information, 2018, 46, 829-844.	2.0	17
35	Summertime Urban Heat Island Mitigation: Propositions based on an Investigation of Intra-Urban Air Temperature Variations. Architectural Science Review, 1997, 40, 155-164.	1.1	16
36	Mapping knowledge flow during sustainability assessment. Proceedings of the Institution of Civil Engineers: Urban Design and Planning, 2010, 163, 67-78.	0.6	15

#	Article	IF	Citations
37	Effects of atmospheric stability and urban morphology on daytime intra-urban temperature variability for Glasgow, UK. Science of the Total Environment, 2018, 627, 782-791.	3.9	15
38	Performance standard for tropical outdoors: A critique of current impasse and a proposal for way forward. Urban Climate, 2018, 23, 250-259.	2.4	15
39	Secure Occupancy Monitoring System for IoT Using Lightweight Intertwining Logistic Map. , 2018, , .		14
40	Assessment of Impact of Land Cover Changes on Urban Bioclimate: the Case of Colombo, Sri Lanka. Architectural Science Review, 2003, 46, 151-158.	1.1	13
41	Heat risk of mortality in two different regions of the United Kingdom. Sustainable Cities and Society, 2022, 80, 103758.	5.1	13
42	Recovery and Valorisation of Energy from Wastewater Using a Water Source Heat Pump at the Glasgow Subway: Potential for Similar Underground Environments. Resources, 2019, 8, 169.	1.6	12
43	Assessment of predicted versus measured thermal comfort and optimal comfort ranges in the outdoor environment in the temperate climate of Glasgow, UK. Building Services Engineering Research and Technology, 2015, 36, 482-499.	0.9	11
44	An Intelligent Real-Time Occupancy Monitoring System with Enhanced Encryption and Privacy. , 2018, , .		8
45	Analysis of Urban Greening Scenarios for Improving Outdoor Thermal Comfort in Neighbourhoods of Lecce (Southern Italy). Climate, 2021, 9, 116.	1.2	8
46	Could refurbishment of â€œtraditionalâ€•buildings reduce carbon emissions?. Built Environment Project and Asset Management, 2014, 4, 221-237.	0.9	7
47	Atmospheric Impacts on Daytime Urban Heat Island. Air, Soil and Water Research, 2018, 11, 117862211881020.	1.2	7
48	RANDOM NEURAL NETWORK LEARNING HEURISTICS. Probability in the Engineering and Informational Sciences, 2017, 31, 436-456.	0.6	6
49	Heat energy from a shallow geothermal system in Glasgow, UK: performance evaluation design. Environmental Geotechnics, 2020, 7, 274-281.	1.3	6
50	An innovative approach to combine solar photovoltaic gardens with agricultural production and ecosystem services. Ecosystem Services, 2022, 56, 101450.	2.3	6
51	ICUCâ€7 Urban Climate Special Issue. International Journal of Climatology, 2011, 31, 159-161.	1.5	5
52	Heat Energy Recovery From Waste Water in the Glasgow Subway System. Procedia Engineering, 2016, 165, 394-403.	1.2	5
53	A heat energy recovery system from tunnel waste water. Environmental Geotechnics, 2018, 5, 300-308.	1.3	5
54	Analysis of Olive Grove Destruction by Xylella fastidiosa Bacterium on the Land Surface Temperature in Salento Detected Using Satellite Images. Forests, 2021, 12, 1266.	0.9	5

#	Article	IF	Citations
55	An Intelligent Real-Time Occupancy Monitoring System Using Single Overhead Camera. Advances in Intelligent Systems and Computing, 2019, , 957-969.	0.5	5
56	Heat recovery from mineworkings: opportunities in the Glasgow area. Environmental Geotechnics, 2017, 4, 395-401.	1.3	4
57	Integrating conservation aspects into energy performance assessments for twentieth century buildings: assessing the Canongate Housing complex in Edinburgh, United Kingdom. Journal of Architectural Conservation, 2018, 24, 27-40.	0.1	4
58	The Performance of an ASHP System Using Waste Air to Recover Heat Energy in a Subway System. Clean Technologies, 2019, 1, 154-163.	1.9	4
59	Urban thermal comfort trends in Sri Lanka: the increasing overheating problem and its potential mitigation. International Journal of Biometeorology, 2022, 66, 1865-1876.	1.3	4
60	An Analysis of the Bio-climatic Effects of Roof Cover of Domestic Buildings in the Equatorial Tropics. Architectural Science Review, 2002, 45, 117-124.	1.1	3
61	Urban microclimate in temperate climates: a summary for practitioners. Buildings and Cities, 2021, 2, 402-410.	1.1	3
62	Planning for Resilience. Green Energy and Technology, 2013, , 19-44.	0.4	3
63	How Much Green Is Really â€œCoolâ€? Target Setting for Thermal Comfort Enhancement in a Warm, Humid City (Jakarta, Indonesia). Atmosphere, 2022, 13, 184.	1.0	3
64	A universal climate-based energy and thermal expectation index: Initial development and tests. Energy and Buildings, 2013, 58, 208-218.	3.1	2
65	Modelling and optimization of residential heating system using random neural networks. , 2014, , .		2
66	Random neural networks based cognitive controller for HVAC in non-domestic building using LoRa. , 2017, , .		2
67	A fairer place? A prototype framework for assessing the environmental equity implications of proposed urban developments in the UK. Journal of Urbanism, 2010, 3, 215-230.	0.6	1
68	Urban air pollution and mitigation options in Sri Lanka. Proceedings of the Institution of Civil Engineers: Urban Design and Planning, 2010, 163, 127-138.	0.6	1
69	A renewable heat solution for water ingress in the Glasgow subway tunnel system. , 2014, , .		1
70	Achieving thermal pleasure in tropical urban outdoors. , 2016, , 31-47.		0
71	RANDOM NEURAL NETWORK LEARNING HEURISTICS â€“ CORRIGENDUM. Probability in the Engineering and Informational Sciences, 2018, 32, 482-482.	0.6	0