

Xiaoming Wang

List of Publications by Year in descending order

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69
papers

3,642
citations

159585

30
h-index

133252

59
g-index

71
all docs

71
docs citations

71
times ranked

3721
citing authors

#	ARTICLE	IF	CITATIONS
1	Projecting Future Heat-Related Mortality under Climate Change Scenarios: A Systematic Review. <i>Environmental Health Perspectives</i> , 2011, 119, 1681-1690.	6.0	323
2	Assessment of climate change impact on residential building heating and cooling energy requirement in Australia. <i>Building and Environment</i> , 2010, 45, 1663-1682.	6.9	276
3	Climate change impact and risks of concrete infrastructure deterioration. <i>Engineering Structures</i> , 2011, 33, 1326-1337.	5.3	261
4	A method to identify strategies for the improvement of human safety behavior by considering safety climate and personal experience. <i>Safety Science</i> , 2008, 46, 1406-1419.	4.9	190
5	Glacial change and hydrological implications in the Himalaya and Karakoram. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 91-106.	29.7	182
6	Thermal performance of buildings integrated with phase change materials to reduce heat stress risks during extreme heatwave events. <i>Applied Energy</i> , 2017, 194, 410-421.	10.1	181
7	Constraints and Barriers to Public Health Adaptation to Climate Change. <i>American Journal of Preventive Medicine</i> , 2011, 40, 183-190.	3.0	147
8	Climate change adaptation for corrosion control of concrete infrastructure. <i>Structural Safety</i> , 2012, 35, 29-39.	5.3	131
9	The impact of temperature on years of life lost in Brisbane, Australia. <i>Nature Climate Change</i> , 2012, 2, 265-270.	18.8	123
10	Influence of global warming on durability of corroding RC structures: A probabilistic approach. <i>Engineering Structures</i> , 2013, 51, 259-266.	5.3	101
11	Effects of Extreme Temperatures on Years of Life Lost for Cardiovascular Deaths: A Time Series Study in Brisbane, Australia. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2012, 5, 609-614.	2.2	97
12	Abuilt-inactive sensor network for health monitoring of composite structures. <i>Smart Materials and Structures</i> , 2006, 15, 1939-1949.	3.5	95
13	Managing the Health Effects of Temperature in Response to Climate Change: Challenges Ahead. <i>Environmental Health Perspectives</i> , 2013, 121, 415-419.	6.0	95
14	Climate change adaptation pathways for Australian residential buildings. <i>Building and Environment</i> , 2011, 46, 2398-2412.	6.9	90
15	Impact of climate change on corrosion and damage to concrete infrastructure in Australia. <i>Climatic Change</i> , 2012, 110, 941-957.	3.6	80
16	The impact of heatwaves on mortality in Australia: a multicity study. <i>BMJ Open</i> , 2014, 4, e003579.	1.9	80
17	Predicting delamination of composite laminates using an imaging approach. <i>Smart Materials and Structures</i> , 2009, 18, 074002.	3.5	75
18	Guided waves for damage identification in pipeline structures: A review. <i>Structural Control and Health Monitoring</i> , 2017, 24, e2007.	4.0	72

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19	The effects of high temperature on cardiovascular admissions in the most populous tropical city in Vietnam. <i>Environmental Pollution</i> , 2016, 208, 33-39.	7.5	61
20	Exploration of the health risk-based definition for heatwave: A multi-city study. <i>Environmental Research</i> , 2015, 142, 696-702.	7.5	60
21	Global warming and its implication to emission reduction strategies for residential buildings. <i>Building and Environment</i> , 2011, 46, 871-883.	6.9	59
22	Parametric analysis for performance enhancement of phase change materials in naturally ventilated buildings. <i>Energy and Buildings</i> , 2016, 124, 35-45.	6.7	57
23	On Selection of Data Fusion Schemes for Structural Damage Evaluation. <i>Structural Health Monitoring</i> , 2009, 8, 223-241.	7.5	52
24	Heat stress within energy efficient dwellings in Australia. <i>Architectural Science Review</i> , 2014, 57, 227-236.	2.2	44
25	Extreme wind gust hazard in Australia and its sensitivity to climate change. <i>Natural Hazards</i> , 2013, 67, 549-567.	3.4	42
26	Multilevel Decision Fusion in a Distributed Active Sensor Network for Structural Damage Detection. <i>Structural Health Monitoring</i> , 2006, 5, 45-58.	7.5	37
27	Direct and Indirect Cost-and-Benefit Assessment of Climate Adaptation Strategies for Housing for Extreme Wind Events in Queensland. <i>Natural Hazards Review</i> , 2014, 15, .	1.5	37
28	Identifying the trade-offs between climate change mitigation and adaptation in urban land use planning: An empirical study in a coastal city. <i>Environment International</i> , 2019, 133, 105162.	10.0	36
29	A new look at roles of the cryosphere in sustainable development. <i>Advances in Climate Change Research</i> , 2019, 10, 124-131.	5.1	32
30	Modelling mechanical properties of core-shell rubber-modified epoxies. <i>Acta Materialia</i> , 2000, 48, 579-586.	7.9	31
31	Unusually cold and dry winters increase mortality in Australia. <i>Environmental Research</i> , 2015, 136, 1-7.	7.5	26
32	Constructing weather data for building simulation considering urban heat island. <i>Building Services Engineering Research and Technology</i> , 2014, 35, 69-82.	1.8	22
33	Reflections on coastal inundation, climate change impact, and adaptation in built environment: progresses and constraints. <i>Advances in Climate Change Research</i> , 2020, 11, 317-331.	5.1	22
34	Stochastic damage detection method for building structures with parametric uncertainties. <i>Journal of Sound and Vibration</i> , 2011, 330, 4725-4737.	3.9	21
35	Vulnerability of timber in ground contact to fungal decay under climate change. <i>Climatic Change</i> , 2012, 115, 777-794.	3.6	21
36	Experimental Research on Using Form-stable PCM-Integrated Cementitious Composite for Reducing Overheating in Buildings. <i>Buildings</i> , 2019, 9, 57.	3.1	21

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37	Characterization, sources and transport of dissolved organic carbon and nitrogen from a glacier in the Central Asia. <i>Science of the Total Environment</i> , 2020, 725, 138346.	8.0	21
38	Hierarchical development of training database for artificial neural network-based damage identification. <i>Composite Structures</i> , 2006, 76, 224-233.	5.8	20
39	Valuating service loss of snow cover in Irtysh River Basin. <i>Advances in Climate Change Research</i> , 2019, 10, 109-114.	5.1	20
40	Snow cover loss compounding the future economic vulnerability of western China. <i>Science of the Total Environment</i> , 2021, 755, 143025.	8.0	20
41	A hierarchical data fusion scheme for identifying multi-damage in composite structures with a built-in sensor network. <i>Smart Materials and Structures</i> , 2007, 16, 2067-2079.	3.5	19
42	Selection of climatic variables and time scales for future weather preparation in building heating and cooling energy predictions. <i>Energy and Buildings</i> , 2012, 51, 223-233.	6.7	19
43	The Impacts of Heatwaves on Mortality Differ with Different Study Periods: A Multi-City Time Series Investigation. <i>PLoS ONE</i> , 2015, 10, e0134233.	2.5	19
44	Climate and hydrological changes in the Ob River Basin during 1936–2017. <i>Hydrological Processes</i> , 2020, 34, 1821-1836.	2.6	19
45	Understanding changes in the water budget driven by climate change in cryospheric-dominated watershed of the northeast Tibetan Plateau, China. <i>Hydrological Processes</i> , 2019, 33, 1040-1058.	2.6	18
46	Snow cover controls seasonally frozen ground regime on the southern edge of Altai Mountains. <i>Agricultural and Forest Meteorology</i> , 2021, 297, 108271.	4.8	18
47	Water balance change and its implications to vegetation in the Tarim River Basin, Central Asia. <i>Quaternary International</i> , 2019, 523, 25-36.	1.5	17
48	Conjunctive and compromised data fusion schemes for identification of multiple notches in an aluminium plate using lamb wave signals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 2005-2016.	3.0	16
49	Soil thermal regime alteration under experimental warming in permafrost regions of the central Tibetan Plateau. <i>Geoderma</i> , 2020, 372, 114397.	5.1	16
50	A reliability assessment of railway track buckling during an extreme heatwave. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2012, 226, 513-517.	2.0	15
51	Sustained sustainable development actions of China from 1986 to 2020. <i>Scientific Reports</i> , 2021, 11, 8008.	3.3	12
52	An approach to modelling concrete bridge condition deterioration using a statistical causal relationship based on inspection data. <i>Structure and Infrastructure Engineering</i> , 2007, 3, 3-15.	3.7	11
53	The Impact of Temperature Variability on Years of Life Lost. <i>Epidemiology</i> , 2014, 25, 313-314.	2.7	10
54	Simulations of microwave propagation in delaminated unidirectional glass-epoxy laminate. <i>Composite Structures</i> , 2006, 75, 422-427.	5.8	8

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55	Adaptation benefits and costs of raising coastal buildings under storm-tide inundation in South East Queensland, Australia. <i>Climatic Change</i> , 2015, 132, 545-558.	3.6	8
56	Application of Phase Change Materials to Reduce Heat Related Risks During Extreme Heat Waves in Australian Dwellings. <i>Energy Procedia</i> , 2016, 88, 725-731.	1.8	8
57	Transboundary water scarcity under climate change. <i>Journal of Hydrology</i> , 2021, 598, 126453.	5.4	8
58	Summer cooling potential of urban vegetation—a modeling study for Melbourne, Australia. <i>AIMS Environmental Science</i> , 2015, 2, 648-667.	1.4	8
59	Effect of glaciers on the annual catchment water balance within Budyko framework. <i>Advances in Climate Change Research</i> , 2022, 13, 51-62.	5.1	8
60	Multi-criteria heatwave vulnerability assessment of residential wall systems. <i>Energy and Buildings</i> , 2013, 66, 373-383.	6.7	6
61	Drought disaster risks under CMIP5 RCP scenarios in Ningxia Hui Autonomous Region, China. <i>Natural Hazards</i> , 2020, 100, 909-931.	3.4	6
62	Cryospheric water regime by its functions and services in China. <i>Advances in Climate Change Research</i> , 2021, 12, 430-443.	5.1	6
63	Spatial and temporal variations of refractory black carbon along the transect from Zhongshan Station to Dome A, eastern Antarctica. <i>Atmospheric Environment</i> , 2020, 242, 117816.	4.1	4
64	Probabilistic Fatigue Assessment Based on Bayesian Learning for Wind-Excited Long-Span Bridges Installed with WASHMS. <i>International Journal of Distributed Sensor Networks</i> , 2013, 9, 871368.	2.2	2
65	A Bayesian Network-Based Risk Assessment Framework for the Impact of Climate Change on Infrastructure. , 2016, , .		0
66	Climate Change Impacts on Housing Energy Consumption and its Adaptation Pathways. <i>Springer Environmental Science and Engineering</i> , 2013, , 207-221.	0.1	0
67	Energy and Carbon Emission. , 2021, , 75-92.		0
68	Climate Change and Built Environment. , 2021, , 47-73.		0
69	Resilience and Adaptation in Buildings. , 2021, , 145-166.		0