

Jim Hall

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3365159/publications.pdf>

Version: 2024-02-01

292
papers

18,038
citations

16437

64
h-index

16636

123
g-index

322
all docs

322
docs citations

322
times ranked

17245
citing authors

#	ARTICLE	IF	CITATIONS
1	A multi-track rail model for estimating journey impacts from extreme weather events: a case study of Great Britain's rail network. <i>International Journal of Rail Transportation</i> , 2022, 10, 133-158.	1.8	4
2	The influence of temporal variability and reservoir management on demand-response in the water sector. <i>Applied Energy</i> , 2022, 305, 117808.	5.1	4
3	The implications of ambitious decarbonisation of heat and road transport for Britain's net zero carbon energy systems. <i>Applied Energy</i> , 2022, 305, 117905.	5.1	18
4	A systemic risk framework to improve the resilience of port and supply-chain networks to natural hazards. <i>Maritime Economics and Logistics</i> , 2022, 24, 489-506.	2.0	16
5	Policy choices can help keep 4G and 5G universal broadband affordable. <i>Technological Forecasting and Social Change</i> , 2022, 176, 121409.	6.2	27
6	Geospatial multi-criteria analysis for identifying optimum wind and solar sites in Africa: Towards effective power sector decarbonization. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112107.	8.2	17
7	The unequal distribution of water risks and adaptation benefits in coastal Bangladesh. <i>Nature Sustainability</i> , 2022, 5, 294-302.	11.5	14
8	Thank You to Our 2021 Reviewers. <i>Water Resources Research</i> , 2022, 58, .	1.7	0
9	Targeting climate adaptation to safeguard and advance the Sustainable Development Goals. <i>Nature Communications</i> , 2022, 13, .	5.8	31
10	The delusive accuracy of global irrigation water withdrawal estimates. <i>Nature Communications</i> , 2022, 13, .	5.8	30
11	Where is the Planetary Boundary for freshwater being exceeded because of livestock farming?. <i>Science of the Total Environment</i> , 2021, 760, 144035.	3.9	10
12	Observed impacts of the COVID-19 pandemic on global trade. <i>Nature Human Behaviour</i> , 2021, 5, 305-307.	6.2	71
13	Infrastructure Strategies for Achieving the Global Development Agendas in Small Islands. <i>Earth's Future</i> , 2021, 9, e2020EF001699.	2.4	9
14	The utility of built environment geospatial data for high-resolution asymmetric global population modeling. <i>Computers, Environment and Urban Systems</i> , 2021, 86, 101594.	3.3	7
15	Thank You to Our 2020 Reviewers. <i>Water Resources Research</i> , 2021, 57, e2021WR029938.	1.7	0
16	Water shortage risks for China's coal power plants under climate change. <i>Environmental Research Letters</i> , 2021, 16, 044011.	2.2	5
17	Global economic impacts of COVID-19 lockdown measures stand out in high-frequency shipping data. <i>PLoS ONE</i> , 2021, 16, e0248818.	1.1	83
18	Selecting Indicators and Optimizing Decision Rules for Long-Term Water Resources Planning. <i>Water Resources Research</i> , 2021, 57, e2020WR028117.	1.7	7

#	ARTICLE	IF	CITATIONS
19	Operationalizing the net-negative carbon economy. <i>Nature</i> , 2021, 596, 377-383.	13.7	87
20	Optimizing Rural Drinking Water Supply Infrastructure to Account for Spatial Variations in Groundwater Quality and Household Welfare in Coastal Bangladesh. <i>Water Resources Research</i> , 2021, 57, e2021WR029621.	1.7	11
21	An Integrated Framework for Risk-Based Analysis of Economic Impacts of Drought and Water Scarcity in England and Wales. <i>Water Resources Research</i> , 2021, 57, e2020WR027715.	1.7	12
22	Assessing water security across scales: A case study of the United States. <i>Applied Geography</i> , 2021, 134, 102500.	1.7	12
23	The Influence of Built Form and Area on the Performance of Sustainable Drainage Systems (SuDS). <i>Future Cities and Environment</i> , 2021, 7, .	0.6	2
24	Geomorphic change in the Gangesâ€“Brahmaputraâ€“Meghna delta. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 763-780.	12.2	45
25	Informing national adaptation for sustainable development through spatial systems modelling. <i>Global Environmental Change</i> , 2021, 71, 102396.	3.6	7
26	Risk-based water resources planning in practice: a blueprint for the water industry in England. <i>Water and Environment Journal</i> , 2020, 34, 441-454.	1.0	24
27	Changing risks of simultaneous global breadbasket failure. <i>Nature Climate Change</i> , 2020, 10, 54-57.	8.1	132
28	Contrasting development trajectories for coastal Bangladesh to the end of century. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	28
29	Understanding and managing new risks on the Nile with the Grand Ethiopian Renaissance Dam. <i>Nature Communications</i> , 2020, 11, 5222.	5.8	87
30	Multi-objective optimization of energy and greenhouse gas emissions in water pumping and treatment. <i>Water Science and Technology</i> , 2020, 82, 2745-2760.	1.2	8
31	A diagnostic dashboard to evaluate country water security. <i>Water Policy</i> , 2020, 22, 825-849.	0.7	7
32	The Spatial Dynamics of Droughts and Water Scarcity in England and Wales. <i>Water Resources Research</i> , 2020, 56, e2020WR027187.	1.7	31
33	The Resilience of Inter-basin Transfers to Severe Droughts With Changing Spatial Characteristics. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	14
34	Thank You to Our 2019 Reviewers. <i>Water Resources Research</i> , 2020, 56, e2020WR027684.	1.7	0
35	Port disruptions due to natural disasters: Insights into port and logistics resilience. <i>Transportation Research, Part D: Transport and Environment</i> , 2020, 85, 102393.	3.2	76
36	The potential of Tidal River Management for flood alleviation in South Western Bangladesh. <i>Science of the Total Environment</i> , 2020, 731, 138747.	3.9	41

#	ARTICLE	IF	CITATIONS
37	Drought and climate change impacts on cooling water shortages and electricity prices in Great Britain. <i>Nature Communications</i> , 2020, 11, 2239.	5.8	53
38	Water Stress and Productivity: An Empirical Analysis of Trends and Drivers. <i>Water Resources Research</i> , 2020, 56, e2019WR025925.	1.7	15
39	The effects of changing land use and flood hazard on poverty in coastal Bangladesh. <i>Land Use Policy</i> , 2020, 99, 104868.	2.5	116
40	How weather affects energy demand variability in the transition towards sustainable heating. <i>Energy</i> , 2020, 195, 116947.	4.5	17
41	An Analysis of Electricity Consumption Patterns in the Water and Wastewater Sectors in South East England, UK. <i>Water (Switzerland)</i> , 2020, 12, 225.	1.2	12
42	Pollution exacerbates China's water scarcity and its regional inequality. <i>Nature Communications</i> , 2020, 11, 650.	5.8	260
43	Renewable energy and household economy in rural China. <i>Renewable Energy</i> , 2020, 155, 669-676.	4.3	43
44	Tackling the Trickle: Ensuring Sustainable Water Management in the Arab Region. <i>Earth's Future</i> , 2020, 8, e2020EF001495.	2.4	8
45	Predicting spatial and temporal variability in crop yields: an inter-comparison of machine learning, regression and process-based models. <i>Environmental Research Letters</i> , 2020, 15, 044027.	2.2	79
46	Quantifying the energy consumption and greenhouse gas emissions of changing wastewater quality standards. <i>Water Science and Technology</i> , 2020, 81, 1283-1295.	1.2	3
47	A Simulation Tool to Guide Infrastructure Decisions: System-of-Systems Modeling Aids Prioritization and Uncertainty Planning. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2019, 5, 10-20.	1.2	1
48	Can we calculate drought risk and do we need to?. <i>Wiley Interdisciplinary Reviews: Water</i> , 2019, 6, e1349.	2.8	22
49	A Probabilistic Model of the Economic Risk to Britain's Railway Network from Bridge Scour During Floods. <i>Risk Analysis</i> , 2019, 39, 2457-2478.	1.5	43
50	A global multi-hazard risk analysis of road and railway infrastructure assets. <i>Nature Communications</i> , 2019, 10, 2677.	5.8	213
51	UK reveals new platform for infrastructure data analysis and simulation modelling. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2019, 172, 102-102.	0.3	1
52	Delivering on the Sustainable Development Goals through long-term infrastructure planning. <i>Global Environmental Change</i> , 2019, 59, 101975.	3.6	80
53	Assessment of Risks to Public Water Supply From Low Flows and Harmful Water Quality in a Changing Climate. <i>Water Resources Research</i> , 2019, 55, 10386-10404.	1.7	25
54	Understanding Business Disruption and Economic Losses Due to Electricity Failures and Flooding. <i>International Journal of Disaster Risk Science</i> , 2019, 10, 421-438.	1.3	32

#	ARTICLE	IF	CITATIONS
55	A systems-based assessment of Palestine's current and future infrastructure requirements. <i>Journal of Environmental Management</i> , 2019, 234, 200-213.	3.8	11
56	Have coastal embankments reduced flooding in Bangladesh?. <i>Science of the Total Environment</i> , 2019, 682, 405-416.	3.9	76
57	Increasing risks of multiple breadbasket failure under 1.5 and 2°C global warming. <i>Agricultural Systems</i> , 2019, 175, 34-45.	3.2	64
58	Electricity systems capacity expansion under cooling water availability constraints. <i>IET Energy Systems Integration</i> , 2019, 1, 23-33.	1.1	6
59	Adaptation thresholds and pathways for tidal flood risk management in London. <i>Climate Risk Management</i> , 2019, 24, 42-58.	1.5	39
60	Managing nitrogen to restore water quality in China. <i>Nature</i> , 2019, 567, 516-520.	13.7	667
61	A multi-scale urban integrated assessment framework for climate change studies: A flooding application. <i>Computers, Environment and Urban Systems</i> , 2019, 75, 229-243.	3.3	28
62	Socio-Hydrology in Perspective” Circa 2018. <i>Water Resources Research</i> , 2019, 55, 1776-1777.	1.7	13
63	Stochastic Counterfactual Risk Analysis for the Vulnerability Assessment of Cyber-Physical Attacks on Electricity Distribution Infrastructure Networks. <i>Risk Analysis</i> , 2019, 39, 2012-2031.	1.5	29
64	Participatory planning of the future of waste management in small island developing states to deliver on the Sustainable Development Goals. <i>Journal of Cleaner Production</i> , 2019, 223, 147-162.	4.6	87
65	Infrastructure for sustainable development. <i>Nature Sustainability</i> , 2019, 2, 324-331.	11.5	371
66	Multi-Scale Assessment of the Economic Impacts of Flooding: Evidence from Firm to Macro-Level Analysis in the Chinese Manufacturing Sector. <i>Sustainability</i> , 2019, 11, 1933.	1.6	12
67	Resilience of Water Resource Systems: Lessons from England. <i>Water Security</i> , 2019, 8, 100052.	1.2	19
68	A high-resolution spatio-temporal energy demand simulation to explore the potential of heating demand side management with large-scale heat pump diffusion. <i>Applied Energy</i> , 2019, 236, 997-1010.	5.1	39
69	Crop yield sensitivity of global major agricultural countries to droughts and the projected changes in the future. <i>Science of the Total Environment</i> , 2019, 654, 811-821.	3.9	387
70	Analysis of the relationship between rainfall and economic growth in Indian states. <i>Global Environmental Change</i> , 2018, 49, 56-72.	3.6	17
71	Integrating human behaviour dynamics into flood disaster risk assessment. <i>Nature Climate Change</i> , 2018, 8, 193-199.	8.1	327
72	Risk, Robustness and Water Resources Planning Under Uncertainty. <i>Earth's Future</i> , 2018, 6, 468-487.	2.4	77

#	ARTICLE	IF	CITATIONS
73	Assessing the Impacts of Extreme Agricultural Droughts in China Under Climate and Socioeconomic Changes. <i>Earth's Future</i> , 2018, 6, 689-703.	2.4	72
74	The strategic national infrastructure assessment of digital communications. <i>Digital Policy, Regulation and Governance</i> , 2018, 20, 197-210.	1.0	12
75	Navigating the water trilemma: a strategic assessment of long-term national water resource management options for Great Britain. <i>Water and Environment Journal</i> , 2018, 32, 546-555.	1.0	10
76	The myriad challenges of the Paris Agreement. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20180066.	1.6	18
77	Critical infrastructure impact assessment due to flood exposure. <i>Journal of Flood Risk Management</i> , 2018, 11, 22-33.	1.6	99
78	Avoiding the water-poverty trap: insights from a conceptual human-water dynamical model for coastal Bangladesh. <i>International Journal of Water Resources Development</i> , 2018, 34, 900-922.	1.2	26
79	Evaluating the Benefits of Adaptation of Critical Infrastructures to Hydrometeorological Risks. <i>Risk Analysis</i> , 2018, 38, 134-150.	1.5	26
80	A Probabilistic Analysis of Surface Water Flood Risk in London. <i>Risk Analysis</i> , 2018, 38, 1169-1182.	1.5	17
81	Preserving Key Topological and Structural Features in the Synthesis of Multilevel Electricity Networks for Modeling of Resilience and Risk. <i>Journal of Infrastructure Systems</i> , 2018, 24, 04017043.	1.0	3
82	A Linear Programming Approach to Water Allocation during a Drought. <i>Water (Switzerland)</i> , 2018, 10, 363.	1.2	12
83	Epistemic uncertainties and natural hazard risk assessment – Part 2: What should constitute good practice?. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 2769-2783.	1.5	37
84	Infrastructure as a Complex Adaptive System. <i>Complexity</i> , 2018, 2018, 1-11.	0.9	42
85	Epistemic uncertainties and natural hazard risk assessment – Part 1: A review of different natural hazard areas. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 2741-2768.	1.5	45
86	Drivers of water use in China's electric power sector from 2000 to 2015. <i>Environmental Research Letters</i> , 2018, 13, 094010.	2.2	13
87	A dynamic agricultural prediction system for large-scale drought assessment on the Sunway TaihuLight supercomputer. <i>Computers and Electronics in Agriculture</i> , 2018, 154, 400-410.	3.7	7
88	Exploring Cooperative Transboundary River Management Strategies for the Eastern Nile Basin. <i>Water Resources Research</i> , 2018, 54, 9224-9254.	1.7	56
89	Appreciation for <i>Water Resources Research</i> Reviewers. <i>Water Resources Research</i> , 2018, 54, 7114-7137.	1.7	0
90	Identifying precipitation uncertainty in crop modelling using Bayesian total error analysis. <i>European Journal of Agronomy</i> , 2018, 101, 248-258.	1.9	1

#	ARTICLE	IF	CITATIONS
91	A large set of potential past, present and future hydro-meteorological time series for the UK. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 611-634.	1.9	54
92	A systems framework for national assessment of climate risks to infrastructure. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170298.	1.6	46
93	Meat consumption, health, and the environment. <i>Science</i> , 2018, 361, .	6.0	1,031
94	Long-term Changes in Global Socioeconomic Benefits of Flood Defenses and Residual Risk Based on CMIP5 Climate Models. <i>Earth's Future</i> , 2018, 6, 938-954.	2.4	22
95	Categorising virtual water transfers through China's electric power sector. <i>Applied Energy</i> , 2018, 226, 252-260.	5.1	58
96	A multi-scale framework for flood risk analysis at spatially distributed locations. <i>Journal of Flood Risk Management</i> , 2017, 10, 124-137.	1.6	15
97	Dependency of Crop Production between Global Breadbaskets: A Copula Approach for the Assessment of Global and Regional Risk Pools. <i>Risk Analysis</i> , 2017, 37, 2212-2228.	1.5	34
98	Strategic analysis of the future of national infrastructure. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2017, 170, 39-47.	0.3	17
99	Looking back and looking forward. <i>Journal of Flood Risk Management</i> , 2017, 10, 3-4.	1.6	1
100	System-of-systems formulation and disruption analysis for multi-scale critical national infrastructures. <i>Reliability Engineering and System Safety</i> , 2017, 167, 30-41.	5.1	65
101	Geographic Hotspots of Critical National Infrastructure. <i>Risk Analysis</i> , 2017, 37, 2490-2505.	1.5	26
102	Real Options Analysis of Adaptation to Changing Flood Risk: Structural and Nonstructural Measures. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2017, 3, .	1.1	31
103	Assessing surface water flood risk and management strategies under future climate change: Insights from an Agent-Based Model. <i>Science of the Total Environment</i> , 2017, 595, 159-168.	3.9	108
104	Development and appraisal of long-term adaptation pathways for managing heat-risk in London. <i>Climate Risk Management</i> , 2017, 16, 73-92.	1.5	34
105	A restatement of the natural science evidence concerning catchment-based "natural" flood management in the UK. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20160706.	1.0	184
106	A Scenario-Based Framework for Assessing the Economic Impacts of Potential Droughts. <i>Water Economics and Policy</i> , 2017, 03, 1750007.	0.3	11
107	Water security, risk, and economic growth: Insights from a dynamical systems model. <i>Water Resources Research</i> , 2017, 53, 6425-6438.	1.7	59
108	Valuing water for sustainable development. <i>Science</i> , 2017, 358, 1003-1005.	6.0	136

#	ARTICLE	IF	CITATIONS
109	The Economic Impacts of Droughts: A Framework for Analysis. <i>Ecological Economics</i> , 2017, 132, 196-204.	2.9	86
110	Identifying key technology and policy strategies for sustainable cities: A case study of London. <i>Environmental Development</i> , 2017, 21, 1-18.	1.8	31
111	Coastal Modelling Environment version 1.0: a framework for integrating landform-specific component models in order to simulate decadal to centennial morphological changes on complex coasts. <i>Geoscientific Model Development</i> , 2017, 10, 2715-2740.	1.3	17
112	Water for energy in China. , 2017, , 67-87.		1
113	An Agent-Based Model of Flood Risk and Insurance. <i>Jasss</i> , 2017, 20, .	1.0	41
114	Water and climate risks to power generation with carbon capture and storage. <i>Environmental Research Letters</i> , 2016, 11, 024011.	2.2	39
115	Uncertainty and sensitivity analysis of flood risk management decisions based on stationary and nonstationary model choices. <i>E3S Web of Conferences</i> , 2016, 7, 20003.	0.2	6
116	Towards a whole-network risk assessment for railway bridge failures caused by scour during flood events. <i>E3S Web of Conferences</i> , 2016, 7, 11002.	0.2	2
117	Cooperative filling approaches for the Grand Ethiopian Renaissance Dam. <i>Water International</i> , 2016, 41, 611-634.	0.4	127
118	Decision Analysis for Management of Natural Hazards. <i>Annual Review of Environment and Resources</i> , 2016, 41, 489-516.	5.6	40
119	Adaptation pathways in practice: Mapping options and trade-offs for London's water resources. <i>Sustainable Cities and Society</i> , 2016, 27, 386-397.	5.1	43
120	Journal of Flood Risk Management. <i>Journal of Flood Risk Management</i> , 2016, 9, 1-2.	1.6	1
121	Responding to Global Challenges in Food, Energy, Environment and Water: Risks and Options Assessment for Decision-Making. <i>Asia and the Pacific Policy Studies</i> , 2016, 3, 275-299.	0.6	45
122	Techniques for valuing adaptive capacity in flood risk management. <i>Water Management</i> , 2016, 169, 75-84.	0.4	8
123	Water use in China's thermoelectric power sector. <i>Global Environmental Change</i> , 2016, 41, 142-152.	3.6	106
124	Believe it or not? The challenge of validating large scale probabilistic risk models. <i>E3S Web of Conferences</i> , 2016, 7, 11004.	0.2	4
125	Surface water flood risk and management strategies for London: An Agent-Based Model approach. <i>E3S Web of Conferences</i> , 2016, 7, 22003.	0.2	2
126	Trading off tolerable risk with climate change adaptation costs in water supply systems. <i>Water Resources Research</i> , 2016, 52, 622-643.	1.7	46

#	ARTICLE	IF	CITATIONS
127	The spatial exposure of the Chinese infrastructure system to flooding and drought hazards. <i>Natural Hazards</i> , 2016, 80, 1083-1118.	1.6	23
128	Deluged with doubt. <i>New Scientist</i> , 2016, 229, 26-27.	0.0	0
129	A Quantified System-of-Systems Modeling Framework for Robust National Infrastructure Planning. <i>IEEE Systems Journal</i> , 2016, 10, 385-396.	2.9	23
130	Sensitivity analysis of environmental models: A systematic review with practical workflow. <i>Environmental Modelling and Software</i> , 2016, 79, 214-232.	1.9	926
131	Causal Loop Analysis of coastal geomorphological systems. <i>Geomorphology</i> , 2016, 256, 36-48.	1.1	17
132	Assessing water resource system vulnerability to unprecedented hydrological drought using copulas to characterize drought duration and deficit. <i>Water Resources Research</i> , 2015, 51, 8927-8948.	1.7	66
133	Numerical rivers: A synthetic streamflow generator for water resources vulnerability assessments. <i>Water Resources Research</i> , 2015, 51, 5382-5405.	1.7	50
134	Cooling water for Britain's future electricity supply. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2015, 168, 188-204.	0.5	7
135	The future of water resources systems analysis: Toward a scientific framework for sustainable water management. <i>Water Resources Research</i> , 2015, 51, 6110-6124.	1.7	214
136	Responding to adaptation emergencies. <i>Nature Climate Change</i> , 2015, 5, 6-7.	8.1	9
137	The role of storage capacity in coping with intra- and inter-annual water variability in large river basins. <i>Environmental Research Letters</i> , 2015, 10, 125001.	2.2	34
138	Creating an ensemble of future strategies for national infrastructure provision. <i>Futures</i> , 2015, 66, 13-24.	1.4	26
139	Feedback structure of cliff and shore platform morphodynamics. <i>Journal of Coastal Conservation</i> , 2015, 19, 847-859.	0.7	15
140	A transient stochastic weather generator incorporating climate model uncertainty. <i>Advances in Water Resources</i> , 2015, 85, 14-26.	1.7	21
141	Broadscale Coastal Inundation Modelling. <i>Advances in Global Change Research</i> , 2015, , 213-232.	1.6	1
142	Analysing Flood and Erosion Risks and Coastal Management Strategies on the Norfolk Coast. <i>Advances in Global Change Research</i> , 2015, , 233-254.	1.6	3
143	A MULTI-LANDFORM NUMERICAL FRAMEWORK FOR MODELLING LARGE SCALE COASTAL MORPHODYNAMICS. , 2015, , .		1
144	Integrated Coastal Assessment: The Way Forward. <i>Advances in Global Change Research</i> , 2015, , 349-378.	1.6	0

#	ARTICLE	IF	CITATIONS
145	Simulating the Shore and Cliffs of North Norfolk. <i>Advances in Global Change Research</i> , 2015, , 187-211.	1.6	0
146	Uncertainty and Sensitivity Analysis of Current and Future Flood Risk in the Thames Estuary. , 2014, , 357-384.		0
147	Water Security and Society: Risks, Metrics, and Pathways. <i>Annual Review of Environment and Resources</i> , 2014, 39, 611-639.	5.6	102
148	Flood Risk Management: Decision Making Under Uncertainty. , 2014, , 3-24.		10
149	Editorial: steps towards global flood risk modelling. <i>Journal of Flood Risk Management</i> , 2014, 7, 193-194.	1.6	9
150	Flood Risk Management Decision Analysis with Finite Historical Records and Highly Variable Climate Effects. , 2014, , .		2
151	Computing flood risk in areas protected by flood defences. <i>Water Management</i> , 2014, 167, 38-50.	0.4	5
152	Too Big to Fail? The Spatial Vulnerability of the Chinese Infrastructure System to Flooding Risks. , 2014, , .		3
153	Coping with the curse of freshwater variability. <i>Science</i> , 2014, 346, 429-430.	6.0	155
154	A National Model for Strategic Planning of Infrastructure Systems. , 2014, , .		4
155	Assessing the Long-Term Performance of Cross-Sectoral Strategies for National Infrastructure. <i>Journal of Infrastructure Systems</i> , 2014, 20, 04014014.	1.0	28
156	Electricity generation and cooling water use: UK pathways to 2050. <i>Global Environmental Change</i> , 2014, 25, 16-30.	3.6	151
157	The energy-water-food nexus: Strategic analysis of technologies for transforming the urban metabolism. <i>Journal of Environmental Management</i> , 2014, 141, 104-115.	3.8	198
158	Probabilistic spatial risk assessment of heat impacts and adaptations for London. <i>Climatic Change</i> , 2014, 124, 105-117.	1.7	49
159	Implications of climate change for thermal discomfort on underground railways. <i>Transportation Research, Part D: Transport and Environment</i> , 2014, 30, 1-9.	3.2	26
160	Energy system impacts from heat and transport electrification. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2014, 167, 139-151.	0.5	29
161	A Risk-Based Framework for Water Planning under Non-Stationary Climate Change. , 2014, , .		1
162	Characterizing the Vulnerability of Future Configurations of Great Britain's Electricity Network Infrastructure to Climate-related Hazards. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
163	Spatial Risk Analysis of Interdependent Infrastructures Subjected to Extreme Hazards. , 2014, , .		4
164	Risk-based water resources planning: Incorporating probabilistic nonstationary climate uncertainties. Water Resources Research, 2014, 50, 6850-6873.	1.7	90
165	An evaluation of thermal Earth observation for characterizing urban heatwave event dynamics using the urban heat island intensity metric. International Journal of Remote Sensing, 2013, 34, 864-884.	1.3	35
166	Broad scale quantified flood risk analysis in the Taihu Basin, China. Journal of Flood Risk Management, 2013, 6, 57-68.	1.6	13
167	A framework for long-term scenario analysis in the Taihu Basin, China. Journal of Flood Risk Management, 2013, 6, 3-13.	1.6	14
168	Risk-based principles for defining and managing water security. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120407.	1.6	78
169	Systems-of-systems analysis of national infrastructure. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2013, 166, 249-257.	0.4	27
170	From flood science to flood policy: the Foresight Future Flooding project seven years on. Foresight, 2013, 15, 190-210.	1.2	4
171	Experiences of integrated assessment of climate impacts, adaptation and mitigation modelling in London and Durban. Environment and Urbanization, 2013, 25, 361-380.	1.5	39
172	The role of infrastructure in macroeconomic growth theories. Civil Engineering and Environmental Systems, 2013, 30, 263-273.	0.4	25
173	Preface. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20130262.	1.6	1
174	Vulnerability of London's Economy to Climate Change: Sensitivity to Production Loss. Journal of Environmental Protection, 2013, 04, 548-563.	0.3	9
175	Proportionate adaptation. Nature Climate Change, 2012, 2, 833-834.	8.1	72
176	Closure to a 2D shallow flow model for practical dam-break simulation. Journal of Hydraulic Research/De Recherches Hydrauliques, 2012, 50, 544-545.	0.7	0
177	A GIS-supported impact assessment of the hierarchical flood-defense systems on the plain areas of the Taihu Basin, China. International Journal of Geographical Information Science, 2012, 26, 643-665.	2.2	12
178	Robust decision-making under uncertainty " towards adaptive and resilient flood risk management infrastructure. , 2012, , 281-302.		21
179	Computational decision analysis for flood risk management in an uncertain future. Journal of Hydroinformatics, 2012, 14, 537-561.	1.1	22
180	Water " and nutrient and energy " systems in urbanizing watersheds. Frontiers of Environmental Science and Engineering, 2012, 6, 596-611.	3.3	24

#	ARTICLE	IF	CITATIONS
181	Towards risk-based water resources planning in England and Wales under a changing climate. <i>Water and Environment Journal</i> , 2012, 26, 118-129.	1.0	65
182	Robust Climate Policies Under Uncertainty: A Comparison of Robust Decision Making and Info-Gap Methods. <i>Risk Analysis</i> , 2012, 32, 1657-1672.	1.5	221
183	Enhanced efficiency of pluvial flood risk estimation in urban areas using spatial-temporal rainfall simulations. <i>Journal of Flood Risk Management</i> , 2012, 5, 143-152.	1.6	57
184	iCOASST – INTEGRATING COASTAL SEDIMENT SYSTEMS. <i>Coastal Engineering Proceedings</i> , 2012, 1, 100.	0.1	20
185	A Mesoscale Predictive Model of the Evolution and Management of a Soft-Rock Coast. <i>Journal of Coastal Research</i> , 2011, 27, 529-543.	0.1	57
186	Bayesian calibration of a flood inundation model using spatial data. <i>Water Resources Research</i> , 2011, 47, .	1.7	46
187	A 2D shallow flow model for practical dam-break simulations. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2011, 49, 307-316.	0.7	82
188	Assessing the effectiveness of non-structural flood management measures in the Thames Estuary under conditions of socio-economic and environmental change. <i>Global Environmental Change</i> , 2011, 21, 628-646.	3.6	161
189	Assessment of climate change mitigation and adaptation in cities. <i>Proceedings of the Institution of Civil Engineers: Urban Design and Planning</i> , 2011, 164, 75-84.	0.6	39
190	How safe is safe enough?. <i>Journal of Flood Risk Management</i> , 2011, 4, 271-272.	1.6	2
191	The Tyndall coastal simulator. <i>Journal of Coastal Conservation</i> , 2011, 15, 325-335.	0.7	27
192	A positivity-preserving zero-inertia model for flood simulation. <i>Computers and Fluids</i> , 2011, 46, 505-511.	1.3	22
193	A changing climate for insurance. <i>Nature Climate Change</i> , 2011, 1, 248-250.	8.1	7
194	Introducing the Infrastructure Transitions Research Consortium. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2011, 164, 51-51.	0.3	1
195	Retrofit Gas Lift System for Tension-Leg-Platform Wells. <i>SPE Production and Operations</i> , 2010, 25, 125-131.	0.4	0
196	Fluvial flood risk management in a changing world. <i>Natural Hazards and Earth System Sciences</i> , 2010, 10, 509-527.	1.5	334
197	Re-engineering cities as forces for good in the environment. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2010, 163, 31-46.	0.4	20
198	Briefing: Strategic research on climate impacts. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2010, 163, 7-8.	0.4	1

#	ARTICLE	IF	CITATIONS
199	Journal of Flood Risk Management. Journal of Flood Risk Management, 2010, 3, 1-2.	1.6	7
200	A systems view of climate change. Civil Engineering and Environmental Systems, 2010, 27, 243-253.	0.4	5
201	Information gap analysis of flood model uncertainties and regional frequency analysis. Water Resources Research, 2010, 46, .	1.7	54
202	Imprecise probability assessment of tipping points in the climate system. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5041-5046.	3.3	263
203	Integrated analysis of risks of coastal flooding and cliff erosion under scenarios of long term change. Climatic Change, 2009, 95, 249-288.	1.7	205
204	Time-dependent reliability analysis of flood defences. Reliability Engineering and System Safety, 2009, 94, 1942-1953.	5.1	31
205	Using probabilistic climate change information from a multimodel ensemble for water resources assessment. Water Resources Research, 2009, 45, .	1.7	76
206	Sensitivity Analysis for Hydraulic Models. Journal of Hydraulic Engineering, 2009, 135, 959-969.	0.7	78
207	THE TYNDALL COASTAL SIMULATOR AND INTERFACE. , 2009, , .		3
208	PROBABILISTIC SIMULATION OF LONG TERM SHORE MORPHOLOGY OF NORTH NORFOLK UK. , 2009, , .		1
209	PROJECTED LONG TERM CHANGES IN FLOOD RISK ON THE EAST ANGLIA COAST OF THE UK. , 2009, , .		0
210	Asset-management strategies for infrastructure embankments. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2009, 162, 111-120.	0.4	26
211	RESPONSE OF MARINE CLIMATE TO FUTURE CLIMATE CHANGE: APPLICATION TO COASTAL REGIONS. , 2009, , .		8
212	Plausible responses to the threat of rapid sea-level rise in the Thames Estuary. Climatic Change, 2008, 91, 145-169.	1.7	63
213	Spatial analysis of the reliability of transport networks subject to rainfall-induced landslides. Hydrological Processes, 2008, 22, 3349-3360.	1.1	21
214	Tipping elements in the Earth's climate system. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1786-1793.	3.3	2,599
215	Climate models' value. New Scientist, 2008, 201, 16.	0.0	2
216	Reframe: A software system supporting flood risk analysis. International Journal of River Basin Management, 2008, 6, 163-174.	1.5	4

#	ARTICLE	IF	CITATIONS
217	A framework for uncertainty analysis in flood risk management decisions. International Journal of River Basin Management, 2008, 6, 85-98.	1.5	151
218	COMBINATION METHODS AND CONFLICT HANDLING IN EVIDENTIAL THEORIES. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2008, 16, 337-369.	0.9	7
219	Attribution of flood risk in urban areas. Journal of Hydroinformatics, 2008, 10, 275-288.	1.1	98
220	Flood Inundation Modeling with an Adaptive Quadtree Grid Shallow Water Equation Solver. Journal of Hydraulic Engineering, 2008, 134, 1603-1610.	0.7	73
221	Earth systems engineering: turning vision into action. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2007, 160, 114-122.	0.3	6
222	1 Overview. , 2007, , 3-12.		0
223	Assessing impacts and responses to global-mean sea-level rise. , 2007, , 119-134.		4
224	Climate Scenarios and Decision Making under Uncertainty. Built Environment, 2007, 33, 10-30.	0.4	24
225	Computing Statistical Characteristics When We Know Probabilities with Interval or Fuzzy Uncertainty: Computational Complexity. , 2007, , .		0
226	Uncertainty Analysis in Environmental Modeling Made Easy. Eos, 2007, 88, 26.	0.1	1
227	Role of Stabilized and Drainable Bases in Early-Age Cracking on Concrete Airfield Pavements. Transportation Research Record, 2007, 2004, 150-162.	1.0	0
228	Probabilistic climate scenarios may misrepresent uncertainty and lead to bad adaptation decisions. Hydrological Processes, 2007, 21, 1127-1129.	1.1	87
229	On not undermining the science: coherence, validation and expertise. Discussion of Invited Commentary by Keith Beven Hydrological Processes, 20, 3141-3146 (2006). Hydrological Processes, 2007, 21, 985-988.	1.1	19
230	Imprecise probabilities of climate change: aggregation of fuzzy scenarios and model uncertainties. Climatic Change, 2007, 81, 265-281.	1.7	44
231	Systemic impacts of climate change on an eroding coastal region over the twenty-first century. Climatic Change, 2007, 84, 141-166.	1.7	163
232	Numerical Modelling of Potential Climate-Change Impacts on Rates of Soft-Cliff Recession, Northeast Norfolk, UK. , 2006, , 1.		4
233	Future flood risk management in the UK. Water Management, 2006, 159, 53-61.	0.4	43
234	Adaptive importance sampling for risk analysis of complex infrastructure systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 3343-3362.	1.0	59

#	ARTICLE	IF	CITATIONS
235	Managing changing risks to infrastructure systems. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2006, 159, 21-27.	0.3	5
236	A GIS Tool for Analysis and Interpretation of Coastal Erosion ModelOutputs (SCAPEGIS). , 2006, , 1.		2
237	Uncertainty-based sensitivity indices for imprecise probability distributions. Reliability Engineering and System Safety, 2006, 91, 1443-1451.	5.1	56
238	Variance-based sensitivity analysis of the probability of hydrologically induced slope instability. Computers and Geosciences, 2006, 32, 803-817.	2.0	46
239	Decision tree for choosing an uncertainty analysis methodology: a wiki experiment. Hydrological Processes, 2006, 20, 3793-3798.	1.1	29
240	Broad-Scale Analysis of Morphological and Climate Impacts on Coastal Flood Risk. , 2006, , 1.		3
241	Impacts of climate change on coastal flood risk in England and Wales: 2030â€“2100. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 1027-1049.	1.6	52
242	Soft Methods in Earth Systems Engineering. , 2006, , 7-10.		2
243	A predictive Mesoscale model of the erosion and profile development of soft rock shores. Coastal Engineering, 2005, 52, 535-563.	1.7	183
244	Simplified two-dimensional numerical modelling of coastal flooding and example applications. Coastal Engineering, 2005, 52, 793-810.	1.7	187
245	Advances in flood risk management under uncertainty. Stochastic Environmental Research and Risk Assessment, 2005, 19, 375-377.	1.9	45
246	Sampling-based flood risk analysis for fluvial dike systems. Stochastic Environmental Research and Risk Assessment, 2005, 19, 388-402.	1.9	73
247	National-scale Assessment of Current and Future Flood Risk in England and Wales. Natural Hazards, 2005, 36, 147-164.	1.6	218
248	Influence Diagrams for Representing Uncertainty in Climate-Related Propositions. Climatic Change, 2005, 69, 343-365.	1.7	24
249	Quantified Analysis of the Probability of Flooding in the Thames Estuary under Imaginable Worst-case Sea Level Rise Scenarios. International Journal of Water Resources Development, 2005, 21, 577-591.	1.2	67
250	Distributed Sensitivity Analysis of Flood Inundation Model Calibration. Journal of Hydraulic Engineering, 2005, 131, 117-126.	0.7	212
251	EFFICIENT BROAD SCALE COASTAL FLOOD RISK ASSESSMENT. , 2005, , .		3
252	Comment on â€“Of data and modelsâ€™. Journal of Hydroinformatics, 2004, 6, 75-77.	1.1	4

#	ARTICLE	IF	CITATIONS
253	A decision-support methodology for performance-based asset management. Civil Engineering and Environmental Systems, 2004, 21, 51-75.	0.4	23
254	Random sets of probability measures in slope hydrology and stability analysis. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2004, 84, 710-720.	0.9	20
255	Fusion of expert and learnt knowledge in a framework of fuzzy labels. International Journal of Approximate Reasoning, 2004, 36, 151-198.	1.9	16
256	Generation, combination and extension of random set approximations to coherent lower and upper probabilities. Reliability Engineering and System Safety, 2004, 85, 89-101.	5.1	64
257	Uncertainty analysis in a slope hydrology and stability model using probabilistic and imprecise information. Computers and Geotechnics, 2004, 31, 529-536.	2.3	43
258	A software-supported process for assembling evidence and handling uncertainty in decision-making. Decision Support Systems, 2003, 35, 415-433.	3.5	51
259	Fuzzy label methods for constructing imprecise limit state functions. Structural Safety, 2003, 25, 317-341.	2.8	12
260	A methodology for national-scale flood risk assessment. Proceedings of the Institution of Civil Engineers Water and Maritime Engineering, 2003, 156, 235-247.	0.3	158
261	Quantified scenarios analysis of drivers and impacts of changing flood risk in England and Wales: 2030?2100. Environmental Hazards, 2003, 5, 51-65.	0.3	66
262	Integrated Flood Risk Management in England and Wales. Natural Hazards Review, 2003, 4, 126-135.	0.8	148
263	RANDOM AND FUZZY SET RELIABILITY ANALYSIS OF COASTAL STRUCTURES. , 2003, , .		0
264	Handling uncertainty in the hydroinformatic process. Journal of Hydroinformatics, 2003, 5, 215-232.	1.1	60
265	PROBABILISTIC CONDITION CHARACTERISATION OF COASTAL STRUCTURES USING IMPRECISE INFORMATION. , 2003, , .		1
266	A methodology for national-scale flood risk assessment. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2003, 156, 235-247.	1.4	37
267	A MODEL OF SOFT CLIFF AND PLATFORM EROSION. , 2003, , .		2
268	RISK/PERFORMANCE FOR MULTI-ATTRIBUTE DECISION-MAKING IN COASTAL ENGINEERING. , 2003, , .		0
269	SIMULATION BASED OPTIMISATION OF A BEACH NOURISHMENT CONCESSION. , 2003, , .		0
270	A methodology for national-scale flood risk assessment. Water Management, 2003, 156, 235-247.	0.4	102

#	ARTICLE	IF	CITATIONS
271	Improved condition characterisation of coastal defences. , 2002, , 123-134.		7
272	A CONTINGENCY APPROACH TO CHOICE. Civil Engineering and Environmental Systems, 2002, 19, 87-118.	0.4	5
273	Towards risk-based flood hazard management in the UK. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2002, 150, 36-42.	0.3	121
274	Handling uncertainty in extreme or unrepeatable hydrological processes?the need for an alternative paradigm. Hydrological Processes, 2002, 16, 1867-1870.	1.1	26
275	Coastal landslide activity: a probabilistic simulation model. Bulletin of Engineering Geology and the Environment, 2002, 61, 347-355.	1.6	27
276	Stochastic simulation of episodic soft coastal cliff recession. Coastal Engineering, 2002, 46, 159-174.	1.7	91
277	Coastal cliff recession: the use of probabilistic prediction methods. Geomorphology, 2001, 40, 253-269.	1.1	91
278	A Probabilistic Process Model of Cliff Recession. , 2001, , 3100.		0
279	Software-supported risk management for the construction industry. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2001, 144, 42-48.	0.3	8
280	Sources and Implications of Uncertainty for Coastal Managers. Water and Environment Journal, 2001, 15, 103-108.	1.0	3
281	Risk-based benefit assessment of coastal cliff protection. Proceedings of the Institution of Civil Engineers Water and Maritime Engineering, 2000, 142, 127-139.	0.3	15
282	Uncertainty Analysis of Coastal Projects. , 1999, , 1461.		1
283	Uncertain inference using interval probability theory. International Journal of Approximate Reasoning, 1998, 19, 247-264.	1.9	74
284	Relation between Dislocation Density and Catalytic Activity and Effects of Physical Treatment. Industrial & Engineering Chemistry Fundamentals, 1964, 3, 158-167.	0.7	14
285	Carbonaceous Deposits on Silica-Alumina Catalyst. Industrial & Engineering Chemistry Process Design and Development, 1963, 2, 25-30.	0.6	9
286	A framework for analysing the long-term performance of interdependent infrastructure systems. , 0, , 12-28.		0
287	Quantifying interdependencies: the energy"transport and water"energy nexus. , 0, , 227-240.		0
288	Analysing the risks of failure of interdependent infrastructure networks. , 0, , 241-267.		1

#	ARTICLE	IF	CITATIONS
289	Database, simulation modelling and visualisation for national infrastructure assessment. , 0, , 268-293.		1
290	Efficient pathways to zero-carbon energy use by water supply utilities: an example from London, UK. Environmental Research Letters, 0, , .	2.2	2
291	A National Scale Infrastructure Database and Modelling Environment for the UK. , 0, , .		4
292	Impacts of Droughts and Acidic Deposition on Long-Term Surface Water Dissolved Organic Carbon Concentrations in Upland Catchments in Wales. Frontiers in Environmental Science, 0, 8, .	1.5	8