

Ian Holman

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

6,491
citations

70961

41
h-index

71532

76
g-index

127
all docs

127
docs citations

127
times ranked

8578
citing authors

#	ARTICLE	IF	CITATIONS
1	Ground water and climate change. <i>Nature Climate Change</i> , 2013, 3, 322-329.	8.1	1,513
2	Climate change impacts on groundwater recharge- uncertainty, shortcomings, and the way forward?. <i>Hydrogeology Journal</i> , 2006, 14, 637-647.	0.9	201
3	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
4	Phosphorus in groundwater"an overlooked contributor to eutrophication?. <i>Hydrological Processes</i> , 2008, 22, 5121-5127.	1.1	169
5	China's water"energy nexus: greenhouse-gas emissions from groundwater use for agriculture. <i>Environmental Research Letters</i> , 2012, 7, 014035.	2.2	152
6	Climate change, water availability and future cereal production in China. <i>Agriculture, Ecosystems and Environment</i> , 2010, 135, 58-69.	2.5	144
7	A Regional, Multi-Sectoral And Integrated Assessment Of The Impacts Of Climate And Socio-Economic Change In The Uk. <i>Climatic Change</i> , 2005, 71, 9-41.	1.7	138
8	Climate change impact modelling needs to include cross-sectoral interactions. <i>Nature Climate Change</i> , 2016, 6, 885-890.	8.1	117
9	Future cereal production in China: The interaction of climate change, water availability and socio-economic scenarios. <i>Global Environmental Change</i> , 2009, 19, 34-44.	3.6	116
10	Modelling China's potential maize production at regional scale under climate change. <i>Climatic Change</i> , 2007, 85, 433-451.	1.7	107
11	Combining qualitative and quantitative understanding for exploring cross-sectoral climate change impacts, adaptation and vulnerability in Europe. <i>Regional Environmental Change</i> , 2013, 13, 761-780.	1.4	100
12	Towards best practice for assessing the impacts of climate change on groundwater. <i>Hydrogeology Journal</i> , 2012, 20, 1-4.	0.9	99
13	Untangling the water-food-energy-environment nexus for global change adaptation in a complex Himalayan water resource system. <i>Science of the Total Environment</i> , 2019, 655, 35-47.	3.9	93
14	Identificaço de respostas no estacionrias dos nveis de gua subterrnea aos padres de telecono oceano-atmosfera no Atlntico Norte, utilizando a coerncia de onduletas. <i>Hydrogeology Journal</i> , 2011, 19, 1269-1278.	0.9	89
15	New European socio-economic scenarios for climate change research: operationalising concepts to extend the shared socio-economic pathways. <i>Regional Environmental Change</i> , 2019, 19, 643-654.	1.4	89
16	A crop model cross calibration for use in regional climate impacts studies. <i>Ecological Modelling</i> , 2008, 213, 365-380.	1.2	82
17	Can we be certain about future land use change in Europe? A multi-scenario, integrated-assessment analysis. <i>Agricultural Systems</i> , 2017, 151, 126-135.	3.2	80
18	A comparison of stochastic and deterministic downscaling methods for modelling potential groundwater recharge under climate change in East Anglia, UK: implications for groundwater resource management. <i>Hydrogeology Journal</i> , 2009, 17, 1629-1641.	0.9	78

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19	Regional variations in the link between drought indices and reported agricultural impacts of drought. <i>Agricultural Systems</i> , 2019, 173, 119-129.	3.2	78
20	Impacts of climate change adaptation options on soil functions: A review of European case studies. <i>Land Degradation and Development</i> , 2018, 29, 2378-2389.	1.8	74
21	An assessment of the risk to surface water ecosystems of groundwater P in the UK and Ireland. <i>Science of the Total Environment</i> , 2010, 408, 1847-1857.	3.9	73
22	Probabilistic modeling of flood characterizations with parametric and minimum information pair-copula model. <i>Journal of Hydrology</i> , 2016, 540, 469-487.	2.3	73
23	Developing drought resilience in irrigated agriculture in the face of increasing water scarcity. <i>Regional Environmental Change</i> , 2017, 17, 1527-1540.	1.4	73
24	A Regional, Multi-sectoral And Integrated Assessment Of The Impacts Of Climate And Socio-economic Change In The Uk. <i>Climatic Change</i> , 2005, 71, 43-73.	1.7	72
25	European participatory scenario development: strengthening the link between stories and models. <i>Climatic Change</i> , 2015, 128, 187-200.	1.7	68
26	Potential impacts of climate change and climate variability on China's rice yield and production. <i>Climate Research</i> , 2009, 40, 23-35.	0.4	63
27	The concepts and development of a participatory regional integrated assessment tool. <i>Climatic Change</i> , 2008, 90, 5-30.	1.7	62
28	Achievement of Paris climate goals unlikely due to time lags in the land system. <i>Nature Climate Change</i> , 2019, 9, 203-208.	8.1	61
29	Assessing cross-sectoral climate change impacts, vulnerability and adaptation: an introduction to the CLIMSAVE project. <i>Climatic Change</i> , 2015, 128, 153-167.	1.7	58
30	Shared Socio-economic Pathways for European agriculture and food systems: The Eur-Agri-SSPs. <i>Global Environmental Change</i> , 2020, 65, 102159.	3.6	58
31	Impacts of observed growing-season warming trends since 1980 on crop yields in China. <i>Regional Environmental Change</i> , 2014, 14, 7-16.	1.4	57
32	Modelling and mapping the economic value of supplemental irrigation in a humid climate. <i>Agricultural Water Management</i> , 2016, 173, 13-22.	2.4	57
33	Adapting to climate change by water management organisations: Enablers and barriers. <i>Journal of Hydrology</i> , 2018, 559, 736-748.	2.3	54
34	Evaluation of CERES-Wheat simulation of Wheat Production in China. <i>Agronomy Journal</i> , 2008, 100, 1720-1728.	0.9	51
35	Untangling relative contributions of recent climate and CO ₂ trends to national cereal production in China. <i>Environmental Research Letters</i> , 2012, 7, 044014.	2.2	49
36	Adapting water management to climate change: Institutional involvement, inter-institutional networks and barriers in India. <i>Global Environmental Change</i> , 2017, 44, 144-157.	3.6	49

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37	Cross-sectoral impacts of climate change and socio-economic change for multiple, European land- and water-based sectors. <i>Climatic Change</i> , 2015, 128, 279-292.	1.7	48
38	Spatio-temporal analysis of land use and land cover change: a systematic model inter-comparison driven by integrated modelling techniques. <i>International Journal of Remote Sensing</i> , 2020, 41, 9229-9255.	1.3	47
39	Differences between low-end and high-end climate change impacts in Europe across multiple sectors. <i>Regional Environmental Change</i> , 2019, 19, 695-709.	1.4	46
40	Regional impact assessment of flooding under future climate and socio-economic scenarios for East Anglia and North West England. <i>Climatic Change</i> , 2008, 90, 31-55.	1.7	45
41	Which catchment characteristics control the temporal dependence structure of daily river flows?. <i>Hydrological Processes</i> , 2015, 29, 1353-1369.	1.1	45
42	Improving the representation of adaptation in climate change impact models. <i>Regional Environmental Change</i> , 2019, 19, 711-721.	1.4	45
43	Can climate-smart agriculture reverse the recent slowing of rice yield growth in China?. <i>Agriculture, Ecosystems and Environment</i> , 2014, 196, 125-136.	2.5	44
44	Dynamic response of land use and river nutrient concentration to long-term climatic changes. <i>Science of the Total Environment</i> , 2017, 590-591, 818-831.	3.9	40
45	Using a linked soil model emulator and unsaturated zone leaching model to account for preferential flow when assessing the spatially distributed risk of pesticide leaching to groundwater in England and Wales. <i>Science of the Total Environment</i> , 2004, 318, 73-88.	3.9	39
46	A method for monthly mapping of wet and dry snow using Sentinel-1 and MODIS: Application to a Himalayan river basin. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 74, 222-230.	1.4	39
47	Evaluation of River Water Quality Simulations at a Daily Time Step – Experience with SWAT in the Axe Catchment, UK. <i>Clean - Soil, Air, Water</i> , 2011, 39, 43-54.	0.7	37
48	Understanding the potential of climate teleconnections to project future groundwater drought. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3233-3245.	1.9	37
49	A Probabilistic Risk Assessment of the National Economic Impacts of Regulatory Drought Management on Irrigated Agriculture. <i>Earth's Future</i> , 2019, 7, 178-196.	2.4	37
50	Priority questions in multidisciplinary drought research. <i>Climate Research</i> , 2018, 75, 241-260.	0.4	35
51	Development and application of a soil classification-based conceptual catchment-scale hydrological model. <i>Journal of Hydrology</i> , 2005, 312, 277-293.	2.3	34
52	An interactive multi-scale integrated assessment of future regional water availability for agricultural irrigation in East Anglia and North West England. <i>Climatic Change</i> , 2008, 90, 89-111.	1.7	34
53	Cross-sectoral impacts of climate and socio-economic change in Scotland: implications for adaptation policy. <i>Regional Environmental Change</i> , 2016, 16, 97-109.	1.4	34
54	Developing a reduced-form ensemble of climate change scenarios for Europe and its application to selected impact indicators. <i>Climatic Change</i> , 2015, 128, 169-186.	1.7	32

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55	Changes in discharge rise and fall rates applied to impact assessment of catchment land use. <i>Hydrology Research</i> , 2010, 41, 13-26.	1.1	31
56	A conceptual model for climatic teleconnection signal control on groundwater variability in Europe. <i>Earth-Science Reviews</i> , 2018, 177, 164-174.	4.0	31
57	Transition pathways to sustainability in greater than 2°C climate futures of Europe. <i>Regional Environmental Change</i> , 2019, 19, 777-789.	1.4	31
58	Developing adaptive capacity within groundwater abstraction management systems. <i>Journal of Environmental Management</i> , 2011, 92, 1542-1549.	3.8	30
59	Direct and indirect impacts of climate and socio-economic change in Europe: a sensitivity analysis for key land- and water-based sectors. <i>Climatic Change</i> , 2015, 128, 261-277.	1.7	30
60	Bias Correction of High-Resolution Regional Climate Model Precipitation Output Gives the Best Estimates of Precipitation in Himalayan Catchments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 14220-14239.	1.2	30
61	Enriching the Shared Socioeconomic Pathways to co-create consistent multi-sector scenarios for the UK. <i>Science of the Total Environment</i> , 2021, 756, 143172.	3.9	29
62	Identifying uncertainties in scenarios and models of socio-ecological systems in support of decision-making. <i>One Earth</i> , 2021, 4, 967-985.	3.6	29
63	Development and application of a catchment scale pesticide fate and transport model for use in drinking water risk assessment. <i>Science of the Total Environment</i> , 2016, 563-564, 434-447.	3.9	28
64	Synthesizing plausible futures for biodiversity and ecosystem services in Europe and Central Asia using scenario archetypes. <i>Ecology and Society</i> , 2019, 24, .	1.0	27
65	Effect of baseline meteorological data selection on hydrological modelling of climate change scenarios. <i>Journal of Hydrology</i> , 2015, 528, 631-642.	2.3	26
66	A protocol to develop Shared Socio-economic Pathways for European agriculture. <i>Journal of Environmental Management</i> , 2019, 252, 109701.	3.8	26
67	Advancing the use of scenarios to understand society's capacity to achieve the 1.5 degree target. <i>Global Environmental Change</i> , 2019, 56, 75-85.	3.6	26
68	Validation of an intrinsic groundwater pollution vulnerability methodology using a national nitrate database. <i>Hydrogeology Journal</i> , 2005, 13, 665-674.	0.9	25
69	Impacts of socio-economic and climate change scenarios on wetlands: linking water resource and biodiversity meta-models. <i>Climatic Change</i> , 2008, 90, 113-139.	1.7	25
70	A framework for a joint hydro-meteorological-social analysis of drought. <i>Science of the Total Environment</i> , 2017, 578, 297-306.	3.9	25
71	Bridging uncertainty concepts across narratives and simulations in environmental scenarios. <i>Regional Environmental Change</i> , 2019, 19, 655-666.	1.4	25
72	Current Practice and Recommendations for Modelling Global Change Impacts on Water Resource in the Himalayas. <i>Water (Switzerland)</i> , 2019, 11, 1303.	1.2	25

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73	Estimating the impact of rural land management changes on catchment runoff generation in England and Wales. <i>Hydrological Processes</i> , 2010, 24, 1357-1368.	1.1	24
74	Water quality targets and maintenance of valued landscape character – Experience in the Axe catchment, UK. <i>Journal of Environmental Management</i> , 2012, 103, 142-153.	3.8	24
75	Linking North Atlantic ocean-atmosphere teleconnection patterns and hydrogeological responses in temperate groundwater systems. <i>Hydrological Processes</i> , 2009, 23, 3123-3126.	1.1	23
76	Adaptive management of river flows in Europe: A transferable framework for implementation. <i>Journal of Hydrology</i> , 2015, 531, 696-705.	2.3	23
77	Drought Impacts, Coping Responses and Adaptation in the UK Outdoor Livestock Sector: Insights to Increase Drought Resilience. <i>Land</i> , 2020, 9, 202.	1.2	23
78	Detecting land use and land management influences on catchment hydrology by modelling and wavelets. <i>Journal of Hydrology</i> , 2014, 517, 378-389.	2.3	22
79	Contextual and interdependent causes of climate change adaptation barriers: Insights from water management institutions in Himachal Pradesh, India. <i>Science of the Total Environment</i> , 2017, 576, 817-828.	3.9	22
80	Enhancing production and flow of freshwater ecosystem services in a managed Himalayan river system under uncertain future climate. <i>Climatic Change</i> , 2020, 162, 343-361.	1.7	22
81	Determining sectoral and regional sensitivity to climate and socio-economic change in Europe using impact response surfaces. <i>Regional Environmental Change</i> , 2019, 19, 679-693.	1.4	21
82	Improving bank erosion modelling at catchment scale by incorporating temporal and spatial variability. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 124-133.	1.2	20
83	A Multi-Level Framework for Adaptation to Drought Within Temperate Agriculture. , 2021, 8, .		20
84	A broad-scale assessment of the effect of improved soil management on catchment baseflow index. <i>Hydrological Processes</i> , 2011, 25, 2563-2572.	1.1	17
85	D-Risk: A decision-support webtool for improving drought risk management in irrigated agriculture. <i>Computers and Electronics in Agriculture</i> , 2019, 162, 855-858.	3.7	16
86	Land drainage and saline intrusion in the coastal marshes of northeast Norfolk. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 1998, 31, 47-62.	0.8	15
87	Development and application of participatory integrated assessment software to support local/regional impact and adaptation assessment. <i>Climatic Change</i> , 2008, 90, 1-4.	1.7	15
88	What is the evidence linking financial assistance for drought-affected agriculture and resilience in tropical Asia? A systematic review. <i>Regional Environmental Change</i> , 2022, 22, 1.	1.4	15
89	Developing a multi-pollutant conceptual framework for the selection and targeting of interventions in water industry catchment management schemes. <i>Journal of Environmental Management</i> , 2015, 161, 153-162.	3.8	14
90	Evaluation of changing surface water abstraction reliability for supplemental irrigation under climate change. <i>Agricultural Water Management</i> , 2018, 206, 200-208.	2.4	14

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91	Implementing land-based mitigation to achieve the Paris Agreement in Europe requires food system transformation. <i>Environmental Research Letters</i> , 2019, 14, 104009.	2.2	14
92	Critical Review of Adaptation Measures to Reduce the Vulnerability of European Drinking Water Resources to the Pressures of Climate Change. <i>Environmental Management</i> , 2019, 64, 138-153.	1.2	14
93	How modelling paradigms affect simulated future land use change. <i>Earth System Dynamics</i> , 2021, 12, 211-231.	2.7	14
94	Understanding and modelling spatial drain-aquifer interactions in a low-lying coastal aquifer the Thurne catchment, Norfolk, UK. <i>Hydrological Processes</i> , 2011, 25, 580-592.	1.1	13
95	Trade-offs are unavoidable in multi-objective adaptation even in a post-Paris Agreement world. <i>Science of the Total Environment</i> , 2019, 696, 134027.	3.9	13
96	Understanding the hydrological functioning of a shallow lake system within a coastal karstic aquifer in Wales, UK. <i>Journal of Hydrology</i> , 2009, 376, 285-294.	2.3	12
97	Resilience of Primary Food Production to a Changing Climate: On-Farm Responses to Water-Related Risks. <i>Water (Switzerland)</i> , 2020, 12, 2155.	1.2	12
98	Application of flow variability analysis to identify impacts of agricultural land-use change on the River Axe, southwest England. <i>Hydrology Research</i> , 2009, 40, 380-393.	1.1	11
99	WRF model sensitivity to choice of parameterization: a study of the "York Flood 1999". <i>Theoretical and Applied Climatology</i> , 2015, 122, 229-247.	1.3	11
100	Exploring the role of hydrological pathways in modulating multi-annual climate teleconnection periodicities from UK rainfall to streamflow. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2223-2237.	1.9	11
101	The land-river interface: a conceptual framework of environmental process interactions to support sustainable development. <i>Sustainability Science</i> , 2022, 17, 1677-1693.	2.5	11
102	Preliminary evaluation of the benefits of a participatory regional integrated assessment software. <i>Climatic Change</i> , 2008, 90, 169-187.	1.7	10
103	Evaluating the effects of climate change on the water resources for the city of Birmingham, UK. <i>Water and Environment Journal</i> , 2012, 26, 361-370.	1.0	10
104	Using variograms to detect and attribute hydrological change. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2395-2408.	1.9	9
105	Non-stationary control of the NAO on European rainfall and its implications for water resource management. <i>Hydrological Processes</i> , 2021, 35, e14099.	1.1	9
106	Crag aquifer characteristics and water balance for the Thurne catchment, northeast Norfolk. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 1999, 32, 365-380.	0.8	8
107	An investigation of the basement complex aquifer system in Lofa county, Liberia, for the purpose of siting boreholes. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2014, 47, 159-167.	0.8	7
108	Exploring trade-offs between SDGs for Indus River Dolphin conservation and human water security in the regulated Beas River, India. <i>Sustainability Science</i> , 2022, 17, 1619-1637.	2.5	7

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109	Using soil and Quaternary geological information to assess the intrinsic groundwater vulnerability of shallow aquifers: an example from Lithuania. <i>Hydrogeology Journal</i> , 2000, 8, 636-645.	0.9	6
110	Towards climate-adaptive development of small hydropower projects in Himalaya: A multi-model assessment in upper Beas basin. <i>Journal of Hydrology: Regional Studies</i> , 2021, 34, 100797.	1.0	6
111	Place-based interpretation of the sustainable development goals for the land-river interface. <i>Sustainability Science</i> , 2022, 17, 1695-1714.	2.5	6
112	Evaluating the Feasibility of Water Sharing as a Drought Risk Management Tool for Irrigated Agriculture. <i>Sustainability</i> , 2021, 13, 1456.	1.6	5
113	Drainage ditch-aquifer interaction with special reference to surface water salinity in the Thurne catchment, Norfolk, UK. <i>Water and Environment Journal</i> , 2011, 25, 116-128.	1.0	4
114	Cross-sectoral and trans-national interactions in national-scale climate change impacts assessment—the case of the Czech Republic. <i>Regional Environmental Change</i> , 2019, 19, 2453-2464.	1.4	4
115	Effect of baseline snowpack assumptions in the HySIM model in predicting future hydrological behaviour of a Himalayan catchment. <i>Hydrology Research</i> , 2019, 50, 691-708.	1.1	4
116	Erosion and Sediment Transport Modelling to Inform Payment for Ecosystem Services Schemes. <i>Environmental Modeling and Assessment</i> , 2021, 26, 89-102.	1.2	4
117	The importance of non-stationary multiannual periodicities in the North Atlantic Oscillation index for forecasting water resource drought. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2449-2467.	1.9	3
118	The Benefits of Spatially Targeted Water Level Management for Salinity Reduction in a Coastal Aquifer. <i>Water Resources Management</i> , 2013, 27, 169-186.	1.9	1
119	Operationalising Transition Management for Navigating High-End Climate Futures. <i>Palgrave Studies in Environmental Transformation, Transition and Accountability</i> , 2020, , 315-358.	2.0	1
120	Climate Governance and High-End Futures in Europe. <i>Palgrave Studies in Environmental Transformation, Transition and Accountability</i> , 2020, , 285-314.	2.0	1
121	Reply to Discussion on “An investigation of the basement complex aquifer system in Lofa county, Liberia, for the purpose of siting boreholes” <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , Vol. 47, 2014, pp. 159–167. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2015, 48, 72-72.	0.8	0