Ian Holman

List of Publications by Year
in descending order

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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	Exploring trade-offs between SDGs for Indus River Dolphin conservation and human water security in the regulated Beas River, India. Sustainability Science, 2022, 17, 1619-1637.	2.5	7
2	What is the evidence linking financial assistance for drought-affected agriculture and resilience in tropical Asia? A systematic review. Regional Environmental Change, 2022, 22, 1.	1.4	15
3	The importance of non-stationary multiannual periodicities in the North Atlantic Oscillation index for forecasting water resource drought. Hydrology and Earth System Sciences, 2022, 26, 2449-2467.	1.9	3
4	The landâ€“river interface: a conceptual framework of environmental process interactions to support sustainable development. Sustainability Science, 2022, 17, 1677-1693.	2.5	11
5	Place-based interpretation of the sustainable development goals for the land-river interface. Sustainability Science, 2022, 17, 1695-1714.	2.5	6
6	Erosion and Sediment Transport Modelling to Inform Payment for Ecosystem Services Schemes. Environmental Modeling and Assessment, 2021, 26, 89-102.	1.2	4
7	Enriching the Shared Socioeconomic Pathways to co-create consistent multi-sector scenarios for the UK. Science of the Total Environment, 2021, 756, 143172.	3.9	29
8	Evaluating the Feasibility of Water Sharing as a Drought Risk Management Tool for Irrigated Agriculture. Sustainability, 2021, 13, 1456.	1.6	5
9	A Multi-Level Framework for Adaptation to Drought Within Temperate Agriculture. , 2021, 8, .		20
10	How modelling paradigms affect simulated future land use change. Earth System Dynamics, 2021, 12, 211-231.	2.7	14
11	Nonâ€stationary control of the <scp>NAO</scp> on European rainfall and its implications for water resource management. Hydrological Processes, 2021, 35, e14099.	1.1	9
12	Towards climate-adaptive development of small hydropower projects in Himalaya: A multi-model assessment in upper Beas basin. Journal of Hydrology: Regional Studies, 2021, 34, 100797.	1.0	6
13	Exploring the role of hydrological pathways in modulating multi-annual climate teleconnection periodicities from UK rainfall to streamflow. Hydrology and Earth System Sciences, 2021, 25, 2223-2237.	1.9	11
14	Identifying uncertainties in scenarios and models of socio-ecological systems in support of decision-making. One Earth, 2021, 4, 967-985.	3.6	29
15	Shared Socio-economic Pathways for European agriculture and food systems: The Eur-Agri-SSPs. Global Environmental Change, 2020, 65, 102159.	3.6	58
16	Spatio-temporal analysis of land use and land cover change: a systematic model inter-comparison driven by integrated modelling techniques. International Journal of Remote Sensing, 2020, 41, 9229-9255.	1.3	47
17	Resilience of Primary Food Production to a Changing Climate: On-Farm Responses to Water-Related Risks. Water (Switzerland), 2020, 12, 2155.	1.2	12
18	Enhancing production and flow of freshwater ecosystem services in a managed Himalayan river system under uncertain future climate. Climatic Change, 2020, 162, 343-361.	1.7	22

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19	Drought Impacts, Coping Responses and Adaptation in the UK Outdoor Livestock Sector: Insights to Increase Drought Resilience. Land, 2020, 9, 202.	1.2	23
20	Operationalising Transition Management for Navigating High-End Climate Futures. Palgrave Studies in Environmental Transformation, Transition and Accountability, 2020, , 315-358.	2.0	1
21	Climate Governance and High-End Futures in Europe. Palgrave Studies in Environmental Transformation, Transition and Accountability, 2020, , 285-314.	2.0	1
22	Differences between low-end and high-end climate change impacts in Europe across multiple sectors. Regional Environmental Change, 2019, 19, 695-709.	1.4	46
23	Bridging uncertainty concepts across narratives and simulations in environmental scenarios. Regional Environmental Change, 2019, 19, 655-666.	1.4	25
24	Implementing land-based mitigation to achieve the Paris Agreement in Europe requires food system transformation. Environmental Research Letters, 2019, 14, 104009.	2.2	14
25	Synthesizing plausible futures for biodiversity and ecosystem services in Europe and Central Asia using scenario archetypes. Ecology and Society, 2019, 24, .	1.0	27
26	A protocol to develop Shared Socio-economic Pathways for European agriculture. Journal of Environmental Management, 2019, 252, 109701.	3.8	26
27	Understanding the potential of climate teleconnections to project future groundwater drought. Hydrology and Earth System Sciences, 2019, 23, 3233-3245.	1.9	37
28	Cross-sectoral and trans-national interactions in national-scale climate change impacts assessmentâ€"the case of the Czech Republic. Regional Environmental Change, 2019, 19, 2453-2464.	1.4	4
29	Trade-offs are unavoidable in multi-objective adaptation even in a post-Paris Agreement world. Science of the Total Environment, 2019, 696, 134027.	3.9	13
30	Current Practice and Recommendations for Modelling Global Change Impacts on Water Resource in the Himalayas. Water (Switzerland), 2019, 11, 1303.	1.2	25
31	Critical Review of Adaptation Measures to Reduce the Vulnerability of European Drinking Water Resources to the Pressures of Climate Change. Environmental Management, 2019, 64, 138-153.	1.2	14
32	D-Risk: A decision-support webtool for improving drought risk management in irrigated agriculture. Computers and Electronics in Agriculture, 2019, 162, 855-858.	3.7	16
33	Advancing the use of scenarios to understand societyâ€™s capacity to achieve the 1.5 degree target. Global Environmental Change, 2019, 56, 75-85.	3.6	26
34	Determining sectoral and regional sensitivity to climate and socio-economic change in Europe using impact response surfaces. Regional Environmental Change, 2019, 19, 679-693.	1.4	21
35	New European socio-economic scenarios for climate change research: operationalising concepts to extend the shared socio-economic pathways. Regional Environmental Change, 2019, 19, 643-654.	1.4	89
36	A Probabilistic Risk Assessment of the National Economic Impacts of Regulatory Drought Management on Irrigated Agriculture. Earth's Future, 2019, 7, 178-196.	2.4	37

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37	Transition pathways to sustainability in greater than 2ÂÂ°C climate futures of Europe. Regional Environmental Change, 2019, 19, 777-789.	1.4	31
38	Regional variations in the link between drought indices and reported agricultural impacts of drought. Agricultural Systems, 2019, 173, 119-129.	3.2	78
39	Achievement of Paris climate goals unlikely due to time lags in the land system. Nature Climate Change, 2019, 9, 203-208.	8.1	61
40	Bias Correction of Highâ€Resolution Regional Climate Model Precipitation Output Gives the Best Estimates of Precipitation in Himalayan Catchments. Journal of Geophysical Research D: Atmospheres, 2019, 124, 14220-14239.	1.2	30
41	Untangling the water-food-energy-environment nexus for global change adaptation in a complex Himalayan water resource system. Science of the Total Environment, 2019, 655, 35-47.	3.9	93
42	Effect of baseline snowpack assumptions in the HySIM model in predicting future hydrological behaviour of a Himalayan catchment. Hydrology Research, 2019, 50, 691-708.	1.1	4
43	A method for monthly mapping of wet and dry snow using Sentinel-1 and MODIS: Application to a Himalayan river basin. International Journal of Applied Earth Observation and Geoinformation, 2019, 74, 222-230.	1.4	39
44	Improving the representation of adaptation in climate change impact models. Regional Environmental Change, 2019, 19, 711-721.	1.4	45
45	Adapting to climate change by water management organisations: Enablers and barriers. Journal of Hydrology, 2018, 559, 736-748.	2.3	54
46	Improving bank erosion modelling at catchment scale by incorporating temporal and spatial variability. Earth Surface Processes and Landforms, 2018, 43, 124-133.	1.2	20
47	A conceptual model for climatic teleconnection signal control on groundwater variability in Europe. Earth-Science Reviews, 2018, 177, 164-174.	4.0	31
48	Evaluation of changing surface water abstraction reliability for supplemental irrigation under climate change. Agricultural Water Management, 2018, 206, 200-208.	2.4	14
49	Impacts of climate change adaptation options on soil functions: A review of European caseâ€studies. Land Degradation and Development, 2018, 29, 2378-2389.	1.8	74
50	Priority questions in multidisciplinary drought research. Climate Research, 2018, 75, 241-260.	0.4	35
51	Dynamic response of land use and river nutrient concentration to long-term climatic changes. Science of the Total Environment, 2017, 590-591, 818-831.	3.9	40
52	Adapting water management to climate change: Institutional involvement, inter-institutional networks and barriers in India. Global Environmental Change, 2017, 44, 144-157.	3.6	49
53	A restatement of the natural science evidence concerning catchment-based â€˜naturalâ€™ flood management in the UK. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20160706.	1.0	184
54	Can we be certain about future land use change in Europe? A multi-scenario, integrated-assessment analysis. Agricultural Systems, 2017, 151, 126-135.	3.2	80

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55	Developing drought resilience in irrigated agriculture in the face of increasing water scarcity. Regional Environmental Change, 2017, 17, 1527-1540.	1.4	73
56	Contextual and interdependent causes of climate change adaptation barriers: Insights from water management institutions in Himachal Pradesh, India. Science of the Total Environment, 2017, 576, 817-828.	3.9	22
57	A framework for a joint hydro-meteorological-social analysis of drought. Science of the Total Environment, 2017, 578, 297-306.	3.9	25
58	Probabilistic modeling of flood characterizations with parametric and minimum information pair-copula model. Journal of Hydrology, 2016, 540, 469-487.	2.3	73
59	Modelling and mapping the economic value of supplemental irrigation in a humid climate. Agricultural Water Management, 2016, 173, 13-22.	2.4	57
60	Climate change impact modelling needs to include cross-sectoral interactions. Nature Climate Change, 2016, 6, 885-890.	8.1	117
61	Development and application of a catchment scale pesticide fate and transport model for use in drinking water risk assessment. Science of the Total Environment, 2016, 563-564, 434-447.	3.9	28
62	Cross-sectoral impacts of climate and socio-economic change in Scotland: implications for adaptation policy. Regional Environmental Change, 2016, 16, 97-109.	1.4	34
63	Using variograms to detect and attribute hydrological change. Hydrology and Earth System Sciences, 2015, 19, 2395-2408.	1.9	9
64	Adaptive management of river flows in Europe: A transferable framework for implementation. Journal of Hydrology, 2015, 531, 696-705.	2.3	23
65	Assessing cross-sectoral climate change impacts, vulnerability and adaptation: an introduction to the CLIMSAVE project. Climatic Change, 2015, 128, 153-167.	1.7	58
66	Direct and indirect impacts of climate and socio-economic change in Europe: a sensitivity analysis for key land- and water-based sectors. Climatic Change, 2015, 128, 261-277.	1.7	30
67	Developing a reduced-form ensemble of climate change scenarios for Europe and its application to selected impact indicators. Climatic Change, 2015, 128, 169-186.	1.7	32
68	Effect of baseline meteorological data selection on hydrological modelling of climate change scenarios. Journal of Hydrology, 2015, 528, 631-642.	2.3	26
69	Cross-sectoral impacts of climate change and socio-economic change for multiple, European land- and water-based sectors. Climatic Change, 2015, 128, 279-292.	1.7	48
70	Reply to Discussion on â€˜An investigation of the basement complex aquifer system in Lofa county, Liberia, for the purpose of siting boreholesâ€™ Quarterly Journal of Engineering Geology and Hydrogeology, Vol. 47, 2014, pp. 159â€“167. Quarterly Journal of Engineering Geology and Hydrogeology, 2015, 48, 72-72.	0.8	0
71	Developing a multi-pollutant conceptual framework for the selection and targeting of interventions in water industry catchment management schemes. Journal of Environmental Management, 2015, 161, 153-162.	3.8	14
72	Which catchment characteristics control the temporal dependence structure of daily river flows?. Hydrological Processes, 2015, 29, 1353-1369.	1.1	45

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73	WRF model sensitivity to choice of parameterization: a study of the â€˜York Flood 1999â€™. Theoretical and Applied Climatology, 2015, 122, 229-247.	1.3	11
74	European participatory scenario development: strengthening the link between stories and models. Climatic Change, 2015, 128, 187-200.	1.7	68
75	An investigation of the basement complex aquifer system in Lofa county, Liberia, for the purpose of siting boreholes. Quarterly Journal of Engineering Geology and Hydrogeology, 2014, 47, 159-167.	0.8	7
76	Impacts of observed growing-season warming trends since 1980 on crop yields in China. Regional Environmental Change, 2014, 14, 7-16.	1.4	57
77	Can climate-smart agriculture reverse the recent slowing of rice yield growth in China?. Agriculture, Ecosystems and Environment, 2014, 196, 125-136.	2.5	44
78	Detecting land use and land management influences on catchment hydrology by modelling and wavelets. Journal of Hydrology, 2014, 517, 378-389.	2.3	22
79	Combining qualitative and quantitative understanding for exploring cross-sectoral climate change impacts, adaptation and vulnerability in Europe. Regional Environmental Change, 2013, 13, 761-780.	1.4	100
80	The Benefits of Spatially Targeted Water Level Management for Salinity Reduction in a Coastal Aquifer. Water Resources Management, 2013, 27, 169-186.	1.9	1
81	Ground water and climate change. Nature Climate Change, 2013, 3, 322-329.	8.1	1,513
82	Chinaâ€™s waterâ€“energy nexus: greenhouse-gas emissions from groundwater use for agriculture. Environmental Research Letters, 2012, 7, 014035.	2.2	152
83	Untangling relative contributions of recent climate and CO ₂ trends to national cereal production in China. Environmental Research Letters, 2012, 7, 044014.	2.2	49
84	Evaluating the effects of climate change on the water resources for the city of <scp>B</scp>irmingham, <scp>UK</scp>. Water and Environment Journal, 2012, 26, 361-370.	1.0	10
85	Water quality targets and maintenance of valued landscape character â€“ Experience in the Axe catchment, UK. Journal of Environmental Management, 2012, 103, 142-153.	3.8	24
86	Towards best practice for assessing the impacts of climate change on groundwater. Hydrogeology Journal, 2012, 20, 1-4.	0.9	99
87	Drainage ditch-aquifer interaction with special reference to surface water salinity in the Thurne catchment, Norfolk, UK. Water and Environment Journal, 2011, 25, 116-128.	1.0	4
88	IdentificaÃ§Ã£o de respostas nÃ£o estacionÃ¡rias dos nÃveis de Ã¡gua subterrÃ¢nea aos padrÃµes de teleconexÃ£o oceano-atmosfera no AtlÃ¢ntico Norte, utilizando a coerÃªncia de onduletas. Hydrogeology Journal, 2011, 19, 1269-1278.	0.9	89
89	Developing adaptive capacity within groundwater abstraction management systems. Journal of Environmental Management, 2011, 92, 1542-1549.	3.8	30
90	Evaluation of River Water Quality Simulations at a Daily Time Step â€“ Experience with SWAT in the Axe Catchment, UK. Clean - Soil, Air, Water, 2011, 39, 43-54.	0.7	37

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91	Understanding and modelling spatial drainâ€“aquifer interactions in a lowâ€lying coastal aquiferâ€”the Thurne catchment, Norfolk, UK. Hydrological Processes, 2011, 25, 580-592.	1.1	13
92	A broadâ€scale assessment of the effect of improved soil management on catchment baseflow index. Hydrological Processes, 2011, 25, 2563-2572.	1.1	17
93	Climate change, water availability and future cereal production in China. Agriculture, Ecosystems and Environment, 2010, 135, 58-69.	2.5	144
94	An assessment of the risk to surface water ecosystems of groundwater P in the UK and Ireland. Science of the Total Environment, 2010, 408, 1847-1857.	3.9	73
95	Estimating the impact of rural land management changes on catchment runoff generation in England and Wales. Hydrological Processes, 2010, 24, 1357-1368.	1.1	24
96	Changes in discharge rise and fall rates applied to impact assessment of catchment land use. Hydrology Research, 2010, 41, 13-26.	1.1	31
97	Application of flow variability analysis to identify impacts of agricultural land-use change on the River Axe, southwest England. Hydrology Research, 2009, 40, 380-393.	1.1	11
98	Understanding the hydrological functioning of a shallow lake system within a coastal karstic aquifer in Wales, UK. Journal of Hydrology, 2009, 376, 285-294.	2.3	12
99	Linking North Atlantic oceanâ€“atmosphere teleconnection patterns and hydrogeological responses in temperate groundwater systems. Hydrological Processes, 2009, 23, 3123-3126.	1.1	23
100	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. Hydrogeology Journal, 2009, 17, 1629-1641.	0.9	78
101	Future cereal production in China: The interaction of climate change, water availability and socio-economic scenarios. Global Environmental Change, 2009, 19, 34-44.	3.6	116
102	Potential impacts of climate change and climate variability on Chinaâ€™s rice yield and production. Climate Research, 2009, 40, 23-35.	0.4	63
103	Regional impact assessment of flooding under future climate and socio-economic scenarios for East Anglia and North West England. Climatic Change, 2008, 90, 31-55.	1.7	45
104	Development and application of participatory integrated assessment software to support local/regional impact and adaptation assessment. Climatic Change, 2008, 90, 1-4.	1.7	15
105	The concepts and development of a participatory regional integrated assessment tool. Climatic Change, 2008, 90, 5-30.	1.7	62
106	Impacts of socio-economic and climate change scenarios on wetlands: linking water resource and biodiversity meta-models. Climatic Change, 2008, 90, 113-139.	1.7	25
107	Preliminary evaluation of the benefits of a participatory regional integrated assessment software. Climatic Change, 2008, 90, 169-187.	1.7	10
108	An interactive multi-scale integrated assessment of future regional water availability for agricultural irrigation in East Anglia and North West England. Climatic Change, 2008, 90, 89-111.	1.7	34

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109	Phosphorus in groundwaterâ€"an overlooked contributor to eutrophication?. Hydrological Processes, 2008, 22, 5121-5127.	1.1	169
110	A crop model cross calibration for use in regional climate impacts studies. Ecological Modelling, 2008, 213, 365-380.	1.2	82
111	Evaluation of CERESâ€Wheat simulation of Wheat Production in China. Agronomy Journal, 2008, 100, 1720-1728.	0.9	51
112	Modelling Chinaâ€™s potential maize production at regional scale under climate change. Climatic Change, 2007, 85, 433-451.	1.7	107
113	Climate change impacts on groundwater recharge- uncertainty, shortcomings, and the way forward?. Hydrogeology Journal, 2006, 14, 637-647.	0.9	201
114	Validation of an intrinsic groundwater pollution vulnerability methodology using a national nitrate database. Hydrogeology Journal, 2005, 13, 665-674.	0.9	25
115	A Regional, Multi-Sectoral And Integrated Assessment Of The Impacts Of Climate And Socio-Economic Change In The Uk. Climatic Change, 2005, 71, 9-41.	1.7	138
116	A Regional, Multi-sectoral And Integrated Assessment Of The Impacts Of Climate And Socio-economic Change In The Uk. Climatic Change, 2005, 71, 43-73.	1.7	72
117	Development and application of a soil classification-based conceptual catchment-scale hydrological model. Journal of Hydrology, 2005, 312, 277-293.	2.3	34
118	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. Science of the Total Environment, 2004, 318, 73-88.	3.9	39
119	Using soil and Quaternary geological information to assess the intrinsic groundwater vulnerability of shallow aquifers: an example from Lithuania. Hydrogeology Journal, 2000, 8, 636-645.	0.9	6
120	Crag aquifer characteristics and water balance for the Thurne catchment, northeast Norfolk. Quarterly Journal of Engineering Geology and Hydrogeology, 1999, 32, 365-380.	0.8	8
121	Land drainage and saline intrusion in the coastal marshes of northeast Norfolk. Quarterly Journal of Engineering Geology and Hydrogeology, 1998, 31, 47-62.	0.8	15