

Hester Biemans

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

5,094
citations

279798

23
h-index

377865

34
g-index

36
all docs

36
docs citations

36
times ranked

6619
citing authors

#	ARTICLE	IF	CITATIONS
1	Global water resources affected by human interventions and climate change. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3251-3256.	7.1	971
2	Importance and vulnerability of the world's water towers. Nature, 2020, 577, 364-369.	27.8	885
3	Impact of reservoirs on river discharge and irrigation water supply during the 20th century. Water Resources Research, 2011, 47, .	4.2	340
4	Accounting for environmental flow requirements in global water assessments. Hydrology and Earth System Sciences, 2014, 18, 5041-5059.	4.9	295
5	Selecting representative climate models for climate change impact studies: an advanced envelope-based selection approach. International Journal of Climatology, 2016, 36, 3988-4005.	3.5	262
6	Global Water Availability and Requirements for Future Food Production. Journal of Hydrometeorology, 2011, 12, 885-899.	1.9	233
7	Exploring SSP land-use dynamics using the IMAGE model: Regional and gridded scenarios of land-use change and land-based climate change mitigation. Global Environmental Change, 2018, 48, 119-135.	7.8	202
8	Importance of snow and glacier meltwater for agriculture on the Indo-Gangetic Plain. Nature Sustainability, 2019, 2, 594-601.	23.7	197
9	Effects of Precipitation Uncertainty on Discharge Calculations for Main River Basins. Journal of Hydrometeorology, 2009, 10, 1011-1025.	1.9	195
10	High-resolution assessment of global technical and economic hydropower potential. Nature Energy, 2017, 2, 821-828.	39.5	186
11	Reconciling irrigated food production with environmental flows for Sustainable Development Goals implementation. Nature Communications, 2017, 8, 15900.	12.8	168
12	The global nexus of food-water sustaining environmental flows by 2050. Nature Sustainability, 2019, 2, 499-507.	23.7	161
13	LPJmL4 - a dynamic global vegetation model with managed land - Part 1: Model description. Geoscientific Model Development, 2018, 11, 1343-1375.	3.6	140
14	The need for bottom-up assessments of climate risks and adaptation in climate-sensitive regions. Nature Climate Change, 2019, 9, 503-511.	18.8	130
15	Adaptation to changing water resources in the Ganges basin, northern India. Environmental Science and Policy, 2011, 14, 758-769.	4.9	122
16	Snowmelt contributions to discharge of the Ganges. Science of the Total Environment, 2013, 468-469, S93-S101.	8.0	86
17	Integrated scenarios to support analysis of the food-energy-water nexus. Nature Sustainability, 2019, 2, 1132-1141.	23.7	79
18	Impacts of future deforestation and climate change on the hydrology of the Amazon Basin: a multi-model analysis with a new set of land-cover change scenarios. Hydrology and Earth System Sciences, 2017, 21, 1455-1475.	4.9	69

#	ARTICLE	IF	CITATIONS
19	South Asian river basins in a 1.5°C warmer world. <i>Regional Environmental Change</i> , 2019, 19, 833-847.	2.9	55
20	Climate change vs. socio-economic development: understanding the future South Asian water gap. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 6297-6321.	4.9	54
21	A Global Analysis of Future Water Deficit Based On Different Allocation Mechanisms. <i>Water Resources Research</i> , 2018, 54, 5803-5824.	4.2	42
22	Crop-specific seasonal estimates of irrigation-water demand in South Asia. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1971-1982.	4.9	40
23	South Asian agriculture increasingly dependent on meltwater and groundwater. <i>Nature Climate Change</i> , 2022, 12, 566-573.	18.8	38
24	Flexible Strategies for Coping with Rainfall Variability: Seasonal Adjustments in Cropped Area in the Ganges Basin. <i>PLoS ONE</i> , 2016, 11, e0149397.	2.5	21
25	Seasonal streamflow forecasts for Europe – Part I: Hindcast verification with pseudo- and real observations. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3453-3472.	4.9	19
26	A systematic framework for the assessment of sustainable hydropower potential in a river basin – The case of the upper Indus. <i>Science of the Total Environment</i> , 2021, 786, 147142.	8.0	18
27	Future upstream water consumption and its impact on downstream water availability in the transboundary Indus Basin. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 861-883.	4.9	16
28	Going local: Evaluating and regionalizing a global hydrological model’s simulation of river flows in a medium-sized East African basin. <i>Journal of Hydrology: Regional Studies</i> , 2018, 19, 349-364.	2.4	13
29	Financial Feasibility of Water Conservation in Agriculture. <i>Earth's Future</i> , 2021, 9, e2020EF001726.	6.3	10
30	From narratives to numbers: Spatial downscaling and quantification of future water, food & energy security requirements in the Indus basin. <i>Futures</i> , 2021, 133, 102831.	2.5	10
31	Advances in global hydrology’s crop modelling to support the UN’s Sustainable Development Goals in South Asia. <i>Current Opinion in Environmental Sustainability</i> , 2019, 40, 108-116.	6.3	8
32	Water conservation can reduce future water-energy-food-environment trade-offs in a medium-sized African river basin. <i>Agricultural Water Management</i> , 2022, 266, 107548.	5.6	8
33	Trade-offs between water needs for food, utilities, and the environment – a nexus quantification at different scales. <i>Environmental Research Letters</i> , 2021, 16, 115003.	5.2	5