Martina FlÃ¶rke

List of Publications by Year
in descending order

58	8,736	126907	149698
papers	citations	33 h-index	56 g-index

71	71	71	11275
all docs	docs citations	times ranked	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	Constraints and potentials of future irrigation water availability on agricultural production under climate change. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3239-3244.	7.1	795
3	Climate change and the world's river basins: anticipating management options. Frontiers in Ecology and the Environment, 2008, 6, 81-89.	4.0	711
4	Future long-term changes in global water resources driven by socio-economic and climatic changes. Hydrological Sciences Journal, 2007, 52, 247-275.	2.6	706
5	Water scarcity assessments in the past, present, and future. Earth's Future, 2017, 5, 545-559.	6.3	545
6	Water on an urban planet: Urbanization and the reach of urban water infrastructure. Global Environmental Change, 2014, 27, 96-105.	7.8	511
7	Water competition between cities and agriculture driven by climate change and urban growth. Nature Sustainability, 2018, 1, 51-58.	23.7	491
8	Domestic and industrial water uses of the past 60 years as a mirror of socio-economic development: A global simulation study. Global Environmental Change, 2013, 23, 144-156.	7.8	388
9	Safe and just operating spaces for regional social-ecological systems. Global Environmental Change, 2014, 28, 227-238.	7.8	311
10	Multimodel projections and uncertainties of irrigation water demand under climate change. Geophysical Research Letters, 2013, 40, 4626-4632.	4.0	302
11	Hyper-resolution global hydrological modelling: what is next?. Hydrological Processes, 2015, 29, 310-320.	2.6	280
12	Evaluation of sources of uncertainty in projected hydrological changes under climate change in 12 large-scale river basins. Climatic Change, 2017, 141, 419-433.	3.6	192
13	Global water scarcity including surface water quality and expansions of clean water technologies. Environmental Research Letters, 2021, 16, 024020.	5.2	192
14	Quality matters for water scarcity. Nature Geoscience, 2017, 10, 800-802.	12.9	181
15	A global water resources ensemble of hydrological models: the eartH2Observe Tier-1 dataset. Earth System Science Data, 2017, 9, 389-413.	9.9	169
16	Variations of global and continental water balance components as impacted by climate forcing uncertainty and human water use. Hydrology and Earth System Sciences, 2016, 20, 2877-2898.	4.9	151
17	Multisectoral climate impact hotspots in a warming world. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3233-3238.	7.1	149
18	The global water resources and use model WaterGAP v2.2d: model description and evaluation. Geoscientific Model Development, 2021, 14, 1037-1079.	3.6	139

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19	Water depletion: An improved metric for incorporating seasonal and dry-year water scarcity into water risk assessments. Elementa, 0, 4, 000083.	3.2	107
20	Global impacts of energy demand on the freshwater resources of nations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6707-16.	7.1	98
21	The Water Planetary Boundary: Interrogation and Revision. One Earth, 2020, 2, 223-234.	6.8	98
22	Phosphorus Loadings to the World's Largest Lakes: Sources and Trends. Global Biogeochemical Cycles, 2018, 32, 617-634.	4.9	91
23	Illuminating water cycle modifications and Earth system resilience in the Anthropocene. Water Resources Research, 2020, 56, e2019WR024957.	4.2	86
24	Impact of climate change on renewable groundwater resources: assessing the benefits of avoided greenhouse gas emissions using selected CMIP5 climate projections. Environmental Research Letters, 2013, 8, 024023.	5.2	81
25	Global multi-pollutant modelling of water quality: scientific challenges and future directions. Current Opinion in Environmental Sustainability, 2019, 36, 116-125.	6.3	80
26	European participatory scenario development: strengthening the link between stories and models. Climatic Change, 2015, 128, 187-200.	3.6	68
27	Uncertainty of simulated groundwater recharge at different global warming levels: a global-scale multi-model ensemble study. Hydrology and Earth System Sciences, 2021, 25, 787-810.	4.9	65
28	Current and future irrigation water requirements in pan-Europe: An integrated analysis of socio-economic and climate scenarios. Global and Planetary Change, 2012, 94-95, 33-45.	3.5	60
29	Modeling historical fecal coliform loadings to large European rivers and resulting in-stream concentrations. Environmental Modelling and Software, 2015, 63, 251-263.	4.5	56
30	Multiâ€model and multiâ€scenario assessments of Asian water futures: The Water Futures and Solutions (WFaS) initiative. Earth's Future, 2017, 5, 823-852.	6.3	50
31	Modeling variable river flow velocity on continental scale: Current situation and climate change impacts in Europe. Journal of Hydrology, 2012, 424-425, 238-251.	5.4	40
32	Hydrological threats to riparian wetlands of international importance â€“ a global quantitative and qualitative analysis. Hydrology and Earth System Sciences, 2017, 21, 2799-2815.	4.9	40
33	Enhancing the Water Accounting and Vulnerability Evaluation Model: WAVE+. Environmental Science & Technology, 2018, 52, 10757-10766.	10.0	39
34	Extended life cycle assessment reveals the spatially-explicit water scarcity footprint of a lithium-ion battery storage. Communications Earth & Environment, 2021, 2, .	6.8	36
35	Evaluation of large-scale precipitation data sets for water resources modelling in Central Asia. Environmental Earth Sciences, 2015, 73, 787-799.	2.7	34
36	Multimodel assessments of human and climate impacts on mean annual streamflow in China. Hydrology and Earth System Sciences, 2019, 23, 1245-1261.	4.9	34

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37	Model inter-comparison design for large-scale water quality models. Current Opinion in Environmental Sustainability, 2019, 36, 59-67.	6.3	34
38	The Role of Virtual Water Flows in Physical Water Scarcity: The Case of Central Asia. International Journal of Water Resources Development, 2012, 28, 453-474.	2.0	33
39	Assessment of runoff, water and sediment quality in the Selenga River basin aided by a web-based geoservice. Water Resources, 2017, 44, 399-416.	0.9	32
40	Future changes of freshwater needs in European power plants. Management of Environmental Quality, 2011, 22, 89-104.	4.3	29
41	Modelling the effects of cross-sectoral water allocation schemes in Europe. Climatic Change, 2015, 128, 229-244.	3.6	28
42	Large scale modelling of bankfull flow: An example for Europe. Journal of Hydrology, 2011, 408, 235-245.	5.4	26
43	What drives the water quality changes in the Selenga Basin: climate change or socio-economic development?. Regional Environmental Change, 2017, 17, 1977-1989.	2.9	25
44	Climate and human development impacts on municipal water demand: A spatially-explicit global modeling framework. Environmental Modelling and Software, 2016, 85, 266-278.	4.5	24
45	Integrated Solutions for the Water-Energy-Land Nexus: Are Global Models Rising to the Challenge?. Water (Switzerland), 2019, 11, 2223.	2.7	24
46	Editorial overview: Water quality: A new challenge for global scale model development and application. Current Opinion in Environmental Sustainability, 2019, 36, A1-A5.	6.3	18
47	The number of people exposed to water stress in relation to how much water is reserved for the environment: a global modelling study. Lancet Planetary Health, The, 2021, 5, e766-e774.	11.4	17
48	Priorities for developing a modelling and scenario analysis framework for waterborne pathogen concentrations in rivers worldwide and consequent burden of disease. Current Opinion in Environmental Sustainability, 2019, 36, 28-38.	6.3	16
49	Impact of climate forcing uncertainty and human water use on global and continental water balance components. Proceedings of the International Association of Hydrological Sciences, 0, 374, 53-62.	1.0	11
50	Globally widespread and increasing violations of environmental flow envelopes. Hydrology and Earth System Sciences, 2022, 26, 3315-3336.	4.9	11
51	A sensitivity and uncertainty analysis of a continental-scale water quality model of pathogen pollution in African rivers. Ecological Modelling, 2017, 351, 129-139.	2.5	9
52	Water Demand Scenarios for Electricity Generation at the Global and Regional Levels. Water (Switzerland), 2020, 12, 2482.	2.7	8
53	Setting priorities for climate change adaptation of Critical Sites in the Africaâ€Eurasian waterbird flyways. Global Change Biology, 2022, 28, 739-752.	9.5	7
54	Climate change exposure of waterbird species in the African-Eurasian flyways. Bird Conservation International, 2022, 32, 1-26.	1.3	6

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55	Spatial covariance of ecosystem services and poverty in China. International Journal of Biodiversity Science, Ecosystem Services & Management, 2017, 13, 422-433.	2.9	5
56	Performance Evaluation and Water Availability of Canal Irrigation Scheme in Punjab Pakistan. Water (Switzerland), 2022, 14, 405.	2.7	5
57	A stage-based approach to allocating water quality monitoring stations based on the WorldQual model: The Jubba River as a case study. Science of the Total Environment, 2021, 762, 144162.	8.0	3
58	Assessing Barriers in Adaptation of Water Management Innovations Under Rotational Canal Water Distribution System. Agriculture (Switzerland), 2022, 12, 913.	3.1	1