Michelle T H Van Vliet

List of Publications by Year
in descending order

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Version: 2024-02-01

		81900	133252
59	7,096	39	59
papers	citations	h-index	g-index

64	64	64	8450
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In-stream surface water quality in China: A spatially-explicit modelling approach for nutrients. Journal of Cleaner Production, 2022, 334, 130208.	9.3	6
2	Salinity impacts on irrigation water-scarcity in food bowl regions of the US and Australia. Environmental Research Letters, 2022, 17, 084002.	5.2	3
3	Global water scarcity including surface water quality and expansions of clean water technologies. Environmental Research Letters, 2021, 16, 024020.	5.2	192
4	Country-level and gridded estimates of wastewater production, collection, treatment and reuse. Earth System Science Data, 2021, 13, 237-254.	9.9	233
5	Urbanization: an increasing source of multiple pollutants to rivers in the 21st century. Npj Urban Sustainability, 2021, 1, .	8.0	84
6	Worldwide water constraints on attainable irrigated production for major crops. Environmental Research Letters, 2021, 16, 055016.	5.2	11
7	Common irrigation drivers of freshwater salinisation in river basins worldwide. Nature Communications, 2021, 12, 4232.	12.8	63
8	Impact of the 2018 drought on pharmaceutical concentrations and general water quality of the Rhine and Meuse rivers. Science of the Total Environment, 2021, 778, 146182.	8.0	17
9	Global carbon sequestration through continental chemical weathering in a climatic change context. Scientific Reports, 2021, 11, 23588.	3.3	0
10	Balancing indicators for sustainable intensification of crop production at field and river basin levels. Science of the Total Environment, 2020, 705, 135925.	8.0	21
11	Impacts of climate change on energy systems in global and regional scenarios. Nature Energy, 2020, 5, 794-802.	39.5	180
12	A global dataset of surface water and groundwater salinity measurements from 1980â€“2019. Scientific Data, 2020, 7, 231.	5.3	47
13	Global Change Can Make Coastal Eutrophication Control in China More Difficult. Earth's Future, 2020, 8, e2019EF001280.	6.3	35
14	Simulating human impacts on global water resources using VIC-5. Geoscientific Model Development, 2020, 13, 5029-5052.	3.6	16
15	Reply to Comment on â€œMulti-Scale Modeling of Nutrient Pollution in the Rivers of Chinaâ€• Environmental Science & Technology, 2020, 54, 2046-2047.	10.0	2
16	Multi-scale Modeling of Nutrient Pollution in the Rivers of China. Environmental Science & Technology, 2019, 53, 9614-9625.	10.0	76
17	Integrated Solutions for the Water-Energy-Land Nexus: Are Global Models Rising to the Challenge?. Water (Switzerland), 2019, 11, 2223.	2.7	24
18	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

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19	Highâ€Resolution Global Water Temperature Modeling. Water Resources Research, 2019, 55, 2760-2778.	4.2	70
20	State-of-the-art global models underestimate impacts from climate extremes. Nature Communications, 2019, 10, 1005.	12.8	168
21	The Mekong's future flows under multiple drivers: How climate change, hydropower developments and irrigation expansions drive hydrological changes. Science of the Total Environment, 2019, 649, 601-609.	8.0	98
22	The state of desalination and brine production: A global outlook. Science of the Total Environment, 2019, 657, 1343-1356.	8.0	1,052
23	Model inter-comparison design for large-scale water quality models. Current Opinion in Environmental Sustainability, 2019, 36, 59-67.	6.3	34
24	Analysing trade-offs between SDGs related to water quality using salinity as a marker. Current Opinion in Environmental Sustainability, 2019, 36, 96-104.	6.3	49
25	Cryptosporidium concentrations in rivers worldwide. Water Research, 2019, 149, 202-214.	11.3	39
26	Global multi-pollutant modelling of water quality: scientific challenges and future directions. Current Opinion in Environmental Sustainability, 2019, 36, 116-125.	6.3	80
27	Bridging global, basin and local-scale water quality modeling towards enhancing water quality management worldwide. Current Opinion in Environmental Sustainability, 2019, 36, 39-48.	6.3	41
28	Climate Impacts in Europe Under +1.5Â°C Global Warming. Earth's Future, 2018, 6, 264-285.	6.3	130
29	Managing flood risks in the Mekong Delta: How to address emerging challenges under climate change and socioeconomic developments. Ambio, 2018, 47, 635-649.	5.5	49
30	Drought impacts on river salinity in the southern US: Implications for water scarcity. Science of the Total Environment, 2018, 644, 844-853.	8.0	58
31	Chinaâ€™s coal-fired power plants impose pressure on water resources. Journal of Cleaner Production, 2017, 161, 1171-1179.	9.3	82
32	Adaptation of thermal power plants: The (ir)relevance of climate (change) information. Energy Economics, 2017, 62, 1-18.	12.1	12
33	Comments on â€œEffects of Environmental Temperature Change on the Efficiency of Coal- and Natural Gas-Fired Power Plantsâ€• Environmental Science & Technology, 2017, 51, 5343-5344.	10.0	2
34	Quality matters for water scarcity. Nature Geoscience, 2017, 10, 800-802.	12.9	181
35	Climate change and the vulnerability of electricity generation to water stress in the European Union. Nature Energy, 2017, 2, .	39.5	78
36	Assessing the impacts of 1.5â€¯Â°C global warming â€“ simulation protocol of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b). Geoscientific Model Development, 2017, 10, 4321-4345.	3.6	410

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37	Mekong River flow and hydrological extremes under climate change. Hydrology and Earth System Sciences, 2016, 20, 3027-3041.	4.9	154
38	Impacts of recent drought and warm years on water resources and electricity supply worldwide. Environmental Research Letters, 2016, 11, 124021.	5.2	85
39	Modeling global water use for the 21st century: the Water Futures and Solutions (WFaS) initiative and its approaches. Geoscientific Model Development, 2016, 9, 175-222.	3.6	379
40	Energy sector water use implications of a 2 Â°C climate policy. Environmental Research Letters, 2016, 11, 034011.	5.2	72
41	Global thermal pollution of rivers from thermoelectric power plants. Environmental Research Letters, 2016, 11, 104011.	5.2	89
42	Global modelling of surface water quality: a multi-pollutant approach. Current Opinion in Environmental Sustainability, 2016, 23, 35-45.	6.3	50
43	Preserving the world second largest hypersaline lake under future irrigation and climate change. Science of the Total Environment, 2016, 559, 317-325.	8.0	64
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	Multi-model assessment of global hydropower and cooling water discharge potential under climate change. Global Environmental Change, 2016, 40, 156-170.	7.8	103
46	The future of the Rhine: stranded ships and no more salmon?. Regional Environmental Change, 2016, 16, 31-41.	2.9	16
47	Power-generation system vulnerability and adaptation to changes in climate and waterÂresources. Nature Climate Change, 2016, 6, 375-380.	18.8	436
48	Continental Runoff into the Oceans (1950â€“2008). Journal of Hydrometeorology, 2015, 16, 1502-1520.	1.9	37
49	European scale climate information services for water use sectors. Journal of Hydrology, 2015, 528, 503-513.	5.4	26
50	Global streamflow and thermal habitats of freshwater fishes under climate change. Climatic Change, 2013, 121, 739-754.	3.6	64
51	Global river discharge and water temperature under climate change. Global Environmental Change, 2013, 23, 450-464.	7.8	689
52	Water constraints on European power supply under climate change: impacts on electricity prices. Environmental Research Letters, 2013, 8, 035010.	5.2	93
53	Adaptation Turning Points in River Restoration? The Rhine Salmon Case. Sustainability, 2013, 5, 2288-2304.	3.2	22
54	A physically based model of global freshwater surface temperature. Water Resources Research, 2012, 48, .	4.2	45

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55	Vulnerability of US and European electricity supply to climate change. Nature Climate Change, 2012, 2, 676-681.	18.8	444
56	Coupled daily streamflow and water temperature modelling in large river basins. Hydrology and Earth System Sciences, 2012, 16, 4303-4321.	4.9	127
57	Climate change impacts on the leaching of a heavy metal contamination in a small lowland catchment. Journal of Contaminant Hydrology, 2012, 127, 47-64.	3.3	58
58	A multi-model ensemble of downscaled spatial climate change scenarios for the Dommel catchment, Western Europe. Climatic Change, 2012, 111, 249-277.	3.6	14
59	Impact of summer droughts on the water quality of the Meuse river. Journal of Hydrology, 2008, 353, 1-17.	5.4	267