Mesfin Mergia Mekonnen

List of Publications by Year
in descending order

61 papers	12,479 citations	94269 37 h-index	128067 60 g-index
66 all docs	66 docs citations	66 times ranked	10744 citing authors

#	Article	IF	Citations
1	Four billion people facing severe water scarcity. Science Advances, 2016, 2, e1500323.	4.7	3,190
2	The water footprint of humanity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3232-3237.	3.3	1,586
3	The green, blue and grey water footprint of crops and derived crop products. Hydrology and Earth System Sciences, 2011, 15, 1577-1600.	1.9	1,481
4	A Global Assessment of the Water Footprint of Farm Animal Products. Ecosystems, 2012, 15, 401-415.	1.6	843
5	Global Monthly Water Scarcity: Blue Water Footprints versus Blue Water Availability. PLoS ONE, 2012, 7, e32688.	1.1	718
6	A global and high-resolution assessment of the green, blue and grey water footprint of wheat. Hydrology and Earth System Sciences, 2010, 14, 1259-1276.	1.9	295
7	Global Gray Water Footprint and Water Pollution Levels Related to Anthropogenic Nitrogen Loads to Fresh Water. Environmental Science & Technology, 2015, 49, 12860-12868.	4.6	294
8	Water footprint benchmarks for crop production: A first global assessment. Ecological Indicators, 2014, 46, 214-223.	2.6	271
9	Global Anthropogenic Phosphorus Loads to Freshwater and Associated Grey Water Footprints and Water Pollution Levels: A Highâ€Resolution Global Study. Water Resources Research, 2018, 54, 345-358.	1.7	240
10	Physical water scarcity metrics for monitoring progress towards SDG target 6.4: An evaluation of indicator 6.4.2 â€œLevel of water stressâ€. Science of the Total Environment, 2018, 613-614, 218-232.	3.9	223
11	The water footprint of poultry, pork and beef: A comparative study in different countries and production systems. Water Resources and Industry, 2013, 1-2, 25-36.	1.9	221
12	The consumptive water footprint of electricity and heat: a global assessment. Environmental Science: Water Research and Technology, 2015, 1, 285-297.	1.2	192
13	The blue water footprint of electricity from hydropower. Hydrology and Earth System Sciences, 2012, 16, 179-187.	1.9	187
14	The water footprint of the EU for different diets. Ecological Indicators, 2013, 32, 1-8.	2.6	179
15	Limits to the worldâ€™s green water resources for food, feed, fiber, timber, and bioenergy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4893-4898.	3.3	177
16	The effect of inter-annual variability of consumption, production, trade and climate on crop-related green and blue water footprints and inter-regional virtual water trade: A study for China (1978â€"2008). Water Research, 2016, 94, 73-85.	5.3	162
17	Increasing pressure on freshwater resources due to terrestrial feed ingredients for aquaculture production. Science of the Total Environment, 2015, 536, 847-857.	3.9	161
18	Country-specific dietary shifts to mitigate climate and water crises. Global Environmental Change, 2020, 62, 101926.	3.6	145

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19	Inter- and intra-annual variation of water footprint of crops and blue water scarcity in the Yellow River basin (1961â€“2009). Advances in Water Resources, 2016, 87, 29-41.	1.7	138
20	The external water footprint of the Netherlands: Geographically-explicit quantification and impact assessment. Ecological Economics, 2009, 69, 82-92.	2.9	129
21	Sensitivity and uncertainty in crop water footprint accounting: a case study for the Yellow River basin. Hydrology and Earth System Sciences, 2014, 18, 2219-2234.	1.9	120
22	The Water Footprint of Global Food Production. Water (Switzerland), 2020, 12, 2696.	1.2	90
23	The water footprint of Tunisia from an economic perspective. Ecological Indicators, 2015, 52, 311-319.	2.6	89
24	Consumptive water footprint and virtual water trade scenarios for China â€" With a focus on crop production, consumption and trade. Environment International, 2016, 94, 211-223.	4.8	86
25	Highâ€Resolution Water Footprints of Production of the United States. Water Resources Research, 2018, 54, 2288-2316.	1.7	84
26	Sustainability, Efficiency and Equitability of Water Consumption and Pollution in Latin America and the Caribbean. Sustainability, 2015, 7, 2086-2112.	1.6	76
27	Future electricity: The challenge of reducing both carbon and water footprint. Science of the Total Environment, 2016, 569-570, 1282-1288.	3.9	75
28	Water scarcity and fish imperilment driven by beef production. Nature Sustainability, 2020, 3, 319-328.	11.5	73
29	Mitigating the Water Footprint of Export Cut Flowers from the Lake Naivasha Basin, Kenya. Water Resources Management, 2012, 26, 3725-3742.	1.9	72
30	Imported water risk: the case of the UK. Environmental Research Letters, 2016, 11, 055002.	2.2	69
31	Sustainability of the blue water footprint of crops. Advances in Water Resources, 2020, 143, 103679.	1.7	66
32	Sustainability of national consumption from a water resources perspective: The case study for France. Ecological Economics, 2013, 88, 133-147.	2.9	64
33	Water, Energy, and Carbon Footprints of Bioethanol from the U.S. and Brazil. Environmental Science & Technology, 2018, 52, 14508-14518.	4.6	63
34	Blue water footprint linked to national consumption and international trade is unsustainable. Nature Food, 2020, 1, 792-800.	6.2	50
35	Benchmark levels for the consumptive water footprint of crop production for different environmental conditions: a case study for winter wheat in China. Hydrology and Earth System Sciences, 2016, 20, 4547-4559.	1.9	46
36	The scarcity-weighted water footprint provides unreliable water sustainability scoring. Science of the Total Environment, 2021, 756, 143992.	3.9	43

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37	Water productivity in meat and milk production in the US from 1960 to 2016. Environment International, 2019, 132, 105084.	4.8	41
38	Treenuts and groundnuts in the EAT-Lancet reference diet: Concerns regarding sustainable water use. Global Food Security, 2020, 24, 100357.	4.0	40
39	Mitigating the Risk of Extreme Water Scarcity and Dependency: The Case of Jordan. Water (Switzerland), 2015, 7, 5705-5730.	1.2	38
40	Water conservation through trade: the case of Kenya. Water International, 2014, 39, 451-468.	0.4	37
41	Energy, carbon and water footprints on agricultural machinery. Biosystems Engineering, 2020, 198, 304-322.	1.9	35
42	Anthropogenic Nitrogen and Phosphorus Emissions and Related Grey Water Footprints Caused by EU-27â€²s Crop Production and Consumption. Water (Switzerland), 2016, 8, 30.	1.2	31
43	The effect of diet changes and food loss reduction in reducing the water footprint of an average American. Water International, 2018, 43, 860-870.	0.4	31
44	Reply to Ridoutt and Huang: From water footprint assessment to policy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, .	3.3	28
45	Water productivity benchmarks: The case of maize and soybean in Nebraska. Agricultural Water Management, 2020, 234, 106122.	2.4	24
46	Meat and milk production scenarios and the associated land footprint in Kenya. Agricultural Systems, 2016, 145, 64-75.	3.2	22
47	Influence of internal variability on population exposure to hydroclimatic changes. Environmental Research Letters, 2017, 12, 044007.	2.2	22
48	Water footprint of feed required by farmed fish in China based on a Monte Carlo-supported von Bertalanffy growth model: A policy implication. Journal of Cleaner Production, 2017, 153, 41-50.	4.6	22
49	Adaptation opportunities for smallholder dairy farmers facing resource scarcity: Integrated livestock, water and land management. Agriculture, Ecosystems and Environment, 2019, 284, 106592.	2.5	16
50	Trends of extreme air temperature and precipitation and their impact on corn and soybean yields in Nebraska, USA. Theoretical and Applied Climatology, 2022, 147, 1379-1399.	1.3	15
51	Inputs for staple crop production in China drive burden shifting of water and carbon footprints transgressing part of provincial planetary boundaries. Water Research, 2022, 221, 118803.	5.3	14
52	Temporal and spatial variations of irrigation water use for commercial corn fields in Central Nebraska. Agricultural Water Management, 2020, 228, 105924.	2.4	11
53	An application of GRACE mission datasets for streamflow and baseflow estimation in the Conterminous United States basins. Journal of Hydrology, 2021, 601, 126622.	2.3	9
54	Volume versus value of crop-related water footprints and virtual water flows: A case study for the Yellow River Basin. Journal of Hydrology, 2022, 608, 127674.	2.3	9

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55	The Water Footprint of Primary Cowâ€“Calf Production: A Revised Bottom-Up Approach Applied on Different Breeds of Beef Cattle. Water (Switzerland), 2020, 12, 2325.	1.2	8
56	Grid-Based Model for Estimating Evapotranspiration Rates of Heterogeneous Land Surface. Journal of Irrigation and Drainage Engineering - ASCE, 2020, 146, .	0.6	6
57	Effects of Irrigation Management on Yield and Water Productivity of Barley Hordeum vulgare in the Upper Blue Nile Basin: Case Study in Northern Gondar. Water Conservation Science and Engineering, 2019, 4, 113-121.	0.9	4
58	Burning Water, Overview of the Contribution of Arjen Hoekstra to the Water Energy Nexus. Water (Switzerland), 2020, 12, 2844.	1.2	4
59	Use of Multiple Environment Variety Trials Data to Simulate Maize Yields in the Ogallala Aquifer Region: A Two Model Approach. Journal of the American Water Resources Association, 2021, 57, 281-295.	1.0	4
60	Anthropogenic Nitrogen Loads to Freshwater: A High-Resolution Global Study. , 2020, , 303-317.		3
61	Reply to â€œLetter to the editor of Pfister et alâ€•regarding â€œThe scarcity-weighted water footprint provides unreliable water sustainability scoringâ€• Science of the Total Environment, 2022, 825, 154750.	3.9	0