

Jerker Jarsjö

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,879
citations

218677

26
h-index

276875

41
g-index

64
all docs

64
docs citations

64
times ranked

2125
citing authors

#	ARTICLE	IF	CITATIONS
1	Managing nitrogen legacies to accelerate water quality improvement. <i>Nature Geoscience</i> , 2022, 15, 97-105.	12.9	112
2	Hydrological responses to climate change and irrigation in the Aral Sea drainage basin. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	101
3	Spatio-temporal variation of sediment transport in the Selenga River Basin, Mongolia and Russia. <i>Environmental Earth Sciences</i> , 2015, 73, 663-680.	2.7	98
4	Health risks from large-scale water pollution: Trends in Central Asia. <i>Environment International</i> , 2011, 37, 435-442.	10.0	96
5	Evolution of the hydro-climate system in the Lake Baikal basin. <i>Journal of Hydrology</i> , 2014, 519, 1953-1962.	5.4	83
6	Small unmonitored near-coastal catchment areas yielding large mass loading to the sea. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	69
7	General Quantification of Catchment-Scale Nutrient and Pollutant Transport through the Subsurface to Surface and Coastal Waters. <i>Environmental Science & Technology</i> , 2010, 44, 2048-2055.	10.0	67
8	Inland hydro-climatic interaction: Effects of human water use on regional climate. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	60
9	Water in Central Asia: an integrated assessment for science-based management. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	57
10	The Selenga River delta: a geochemical barrier protecting Lake Baikal waters. <i>Regional Environmental Change</i> , 2017, 17, 2039-2053.	2.9	54
11	Water Savings Through Improved Irrigation Techniques: Basin-Scale Quantification in Semi-Arid Environments. <i>Water Resources Management</i> , 2012, 26, 949-962.	3.9	52
12	Monitoring groundwater contamination and delineating source zones at industrial sites: Uncertainty analyses using integral pumping tests. <i>Journal of Contaminant Hydrology</i> , 2005, 79, 107-134.	3.3	49
13	Implications of freshwater flux data from the <scp>CMIP5</scp> multimodel output across a set of Northern Hemisphere drainage basins. <i>Earth's Future</i> , 2015, 3, 206-217.	6.3	46
14	Patterns of soil contamination, erosion and river loading of metals in a gold mining region of northern Mongolia. <i>Regional Environmental Change</i> , 2017, 17, 1991-2005.	2.9	43
15	Projecting impacts of climate change on metal mobilization at contaminated sites: Controls by the groundwater level. <i>Science of the Total Environment</i> , 2020, 712, 135560.	8.0	43
16	Dissecting the ecosystem service of large-scale pollutant retention: The role of wetlands and other landscape features. <i>Ambio</i> , 2015, 44, 127-137.	5.5	40
17	Present to future sediment transport of the Brahmaputra River: reducing uncertainty in predictions and management. <i>Regional Environmental Change</i> , 2017, 17, 515-526.	2.9	40
18	Runoff fluctuations in the Selenga River Basin. <i>Regional Environmental Change</i> , 2017, 17, 1965-1976.	2.9	37

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19	Bathymetry-topography effects on saltwater-fresh groundwater interactions around the shrinking Aral Sea. <i>Water Resources Research</i> , 2006, 42, .	4.2	36
20	Integral pumping test analyses of linearly sorbed groundwater contaminants using multiple wells: Inferring mass flows and natural attenuation rates. <i>Water Resources Research</i> , 2006, 42, .	4.2	36
21	Average contaminant concentration and mass flow in aquifers from time-dependent pumping well data: Analytical framework. <i>Water Resources Research</i> , 2004, 40, .	4.2	34
22	Quantification of advective solute travel times and mass transport through hydrological catchments. <i>Environmental Fluid Mechanics</i> , 2010, 10, 103-120.	1.6	33
23	Vapor flux by evapotranspiration: Effects of changes in climate, land use, and water use. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
24	Scenario simulations of CO2 injection feasibility, plume migration and storage in a saline aquifer, Scania, Sweden. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 1303-1318.	4.6	32
25	Variation of groundwater salinity in the partially irrigated Amudarya River delta, Uzbekistan. <i>Journal of Marine Systems</i> , 2009, 76, 287-295.	2.1	31
26	Mechanisms of Basin-Scale Nitrogen Load Reductions under Intensified Irrigated Agriculture. <i>PLoS ONE</i> , 2015, 10, e0120015.	2.5	29
27	Large-scale comparison of flow-variability dampening by lakes and wetlands in the landscape. <i>Land Degradation and Development</i> , 2018, 29, 3617-3627.	3.9	28
28	Interpreting characteristic drainage timescale variability across Kilombero Valley, Tanzania. <i>Hydrological Processes</i> , 2015, 29, 1912-1924.	2.6	27
29	Solute evidence for hydrological connectivity of geographically isolated wetlands. <i>Land Degradation and Development</i> , 2018, 29, 3954-3962.	3.9	26
30	Effects of Inland Nitrogen Transport and Attenuation Modeling on Coastal Nitrogen Load Abatement. <i>Environmental Science & Technology</i> , 2006, 40, 6208-6214.	10.0	25
31	Freshwater flows to the sea: Spatial variability, statistics and scale dependence along coastlines. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	25
32	Speciation and hydrological transport of metals in non-acidic river systems of the Lake Baikal basin: Field data and model predictions. <i>Regional Environmental Change</i> , 2017, 17, 2007-2021.	2.9	25
33	Sedimentation patterns in the Selenga River delta under changing hydroclimatic conditions. <i>Hydrological Processes</i> , 2018, 32, 278-292.	2.6	24
34	Water quality and ecosystem management: Data-driven reality check of effects in streams and lakes. <i>Water Resources Research</i> , 2017, 53, 6395-6406.	4.2	22
35	River Water Quality of the Selenga-Baikal Basin: Part I – Spatio-Temporal Patterns of Dissolved and Suspended Metals. <i>Water (Switzerland)</i> , 2020, 12, 2137.	2.7	18
36	Impacts of multi-purpose reservoir construction, land-use change and climate change on runoff characteristics in the Poyang Lake basin, China. <i>Journal of Hydrology: Regional Studies</i> , 2020, 29, 100694.	2.4	18

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37	Scale and model resolution effects on the distributions of advective solute travel times in catchments. <i>Hydrological Processes</i> , 2010, 24, 1697-1710.	2.6	17
38	Wetlandscape size thresholds for ecosystem service delivery: Evidence from the NorrstrÄ¶m drainage basin, Sweden. <i>Science of the Total Environment</i> , 2020, 704, 135452.	8.0	17
39	Disproportionate Water Quality Impacts from the Century-Old Nautanen Copper Mines, Northern Sweden. <i>Sustainability</i> , 2020, 12, 1394.	3.2	17
40	Estimating plume degradation rates in aquifers: Effect of propagating measurement and methodological errors. <i>Water Resources Research</i> , 2008, 44, .	4.2	15
41	Plant uptake of elements in soil and pore water: Field observations versus model assumptions. <i>Journal of Environmental Management</i> , 2013, 126, 147-156.	7.8	15
42	Zones of untreatable water pollution call for better appreciation of mitigation limits and opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , 2018, 5, e1312.	6.5	15
43	Water Balance and Level Change of Lake Babati, Tanzania: Sensitivity to Hydroclimatic Forcings. <i>Water (Switzerland)</i> , 2016, 8, 572.	2.7	12
44	Climate-driven change of nitrogen retentionâ€ˆattenuation near irrigated fields: multi-model projections for Central Asia. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	12
45	Urban closed lakes: Nutrient sources, assimilative capacity and pollutant reduction under different precipitation frequencies. <i>Science of the Total Environment</i> , 2020, 700, 134531.	8.0	12
46	River Water Quality of the Selenga-Baikal Basin: Part IIâ€ˆMetal Partitioning under Different Hydroclimatic Conditions. <i>Water (Switzerland)</i> , 2020, 12, 2392.	2.7	10
47	Catchment-scale microbial sulfate reduction (MSR) of acid mine drainage (AMD) revealed by sulfur isotopes. <i>Environmental Pollution</i> , 2022, 292, 118478.	7.5	10
48	Geochemical responses of forested catchments to bark beetle infestation: Evidence from high frequency in-stream electrical conductivity monitoring. <i>Journal of Hydrology</i> , 2017, 550, 635-649.	5.4	9
49	GIS analysis of effects of future Baltic sea level rise on the island of Gotland, Sweden. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 1571-1582.	3.6	8
50	Sediment transport in headwaters of a volcanic catchmentâ€ˆKamchatka Peninsula case study. <i>Frontiers of Earth Science</i> , 2017, 11, 565-578.	2.1	8
51	Relationship between hydroclimatic variables and reservoir wetland landscape pattern indices: A case study of the Sanmenxia Reservoir wetland on the Yellow River, China. <i>Journal of Earth System Science</i> , 2020, 129, 1.	1.3	8
52	Saving the Baltic Sea, the Inland Waters of Its Drainage Basin, or Both? Spatial Perspectives on Reducing P-Loads in Eastern Sweden. <i>Ambio</i> , 2014, 43, 914-925.	5.5	7
53	Scaling relations reveal global and regional differences in morphometry of reservoirs and natural lakes. <i>Science of the Total Environment</i> , 2022, 822, 153510.	8.0	7
54	Well Salinization Risk and Effects of Baltic Sea Level Rise on the Groundwater-Dependent Island of Å–land, Sweden. <i>Water (Switzerland)</i> , 2018, 10, 141.	2.7	6

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55	Impacts of the water framework directive on learning and knowledge practices in a Swedish catchment. <i>Journal of Environmental Management</i> , 2018, 223, 731-742.	7.8	6
56	Drivers and extent of surface water occurrence in the Selenga River Delta, Russia. <i>Journal of Hydrology: Regional Studies</i> , 2021, 38, 100945.	2.4	5
57	Microbial Sulfate Reduction (MSR) as a Nature-Based Solution (NBS) to Mine Drainage: Contrasting Spatiotemporal Conditions in Northern Europe. <i>Water Resources Research</i> , 2022, 58, .	4.2	5
58	Modeling Two-Phase-Flow Interactions across a Bentonite Clay and Fractured Rock Interface. <i>Nuclear Technology</i> , 2014, 187, 147-157.	1.2	4
59	Breakthrough of attenuating contaminant plumes in pumping wells: Analytical model and implications for integral pumping tests. <i>Water Resources Research</i> , 2009, 45, .	4.2	3