

Bjrn Klve

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Version: 2024-04-25

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173
papers

4,562
citations

32
h-index

59
g-index

191
ext. papers

5,617
ext. citations

5.2
avg. IF

6.04
L-index

#	Paper	IF	Citations
173	A continental-scale hydrology and water quality model for Europe: Calibration and uncertainty of a high-resolution large-scale SWAT model. <i>Journal of Hydrology</i> , 2015 , 524, 733-752	6	724
172	Climate change impacts on groundwater and dependent ecosystems. <i>Journal of Hydrology</i> , 2014 , 518, 250-266	6	318
171	Urban flood risk mapping using the GARP and QUEST models: A comparative study of machine learning techniques. <i>Journal of Hydrology</i> , 2019 , 569, 142-154	6	174
170	Groundwater dependent ecosystems. Part I: Hydroecological status and trends. <i>Environmental Science and Policy</i> , 2011 , 14, 770-781	6.2	163
169	River suspended sediment modelling using the CART model: A comparative study of machine learning techniques. <i>Science of the Total Environment</i> , 2018 , 615, 272-281	10.2	142
168	Emission of the greenhouse gases nitrous oxide and methane from constructed wetlands in Europe. <i>Journal of Environmental Quality</i> , 2006 , 35, 2360-73	3.4	115
167	Emission of N ₂ O and CH ₄ from a constructed wetland in southeastern Norway. <i>Science of the Total Environment</i> , 2007 , 380, 28-37	10.2	85
166	Dynamics of erosion and suspended sediment transport from drained peatland forestry. <i>Journal of Hydrology</i> , 2010 , 388, 414-425	6	71
165	Groundwater dependent ecosystems. Part II. Ecosystem services and management in Europe under risk of climate change and land use intensification. <i>Environmental Science and Policy</i> , 2011 , 14, 782-793	6.2	67
164	Modeling of nitrate removal for ion exchange resin in batch and fixed bed experiments. <i>Desalination</i> , 2012 , 284, 22-31	10.3	60
163	A conceptual and statistical approach for the analysis of climate impact on ground water table fluctuation patterns in cold conditions. <i>Journal of Hydrology</i> , 2010 , 388, 1-12	6	59
162	Fully integrated surface-subsurface flow modelling of groundwater-lake interaction in an esker aquifer: Model verification with stable isotopes and airborne thermal imaging. <i>Journal of Hydrology</i> , 2015 , 522, 391-406	6	57
161	Determination of compound channel apparent shear stress: application of novel data mining models. <i>Journal of Hydroinformatics</i> , 2019 , 21, 798-811	2.6	49
160	Long-term variations and trends in precipitation in Finland. <i>International Journal of Climatology</i> , 2014 , 34, 3139-3153	3.5	49
159	A sequential modelling approach to assess groundwater-surface water resources in a snow dominated region of Finland. <i>Journal of Hydrology</i> , 2011 , 411, 91-107	6	48
158	Efficient removal of arsenic, antimony and nickel from mine wastewaters in Northern treatment peatlands and potential risks in their long-term use. <i>Ecological Engineering</i> , 2015 , 75, 350-364	3.9	46
157	Snow and frost: implications for spatiotemporal infiltration patterns – a review. <i>Hydrological Processes</i> , 2016 , 30, 1230-1250	3.3	46

156	Groundwater Pollution and Quality Monitoring Approaches at the European Level. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 323-408	11.1	44
155	Use of stable isotopes and tracers to detect preferential flow patterns in a peatland treating municipal wastewater. <i>Journal of Hydrology</i> , 2007 , 347, 418-429	6	42
154	Analysis of land use and climate change impacts by comparing river flow records for headwaters and lowland reaches. <i>Global and Planetary Change</i> , 2017 , 158, 47-56	4.2	41
153	Development of a new index to assess river regime impacts after dam construction. <i>Global and Planetary Change</i> , 2014 , 122, 186-196	4.2	40
152	Water-table-dependent hydrological changes following peatland forestry drainage and restoration: Analysis of restoration success. <i>Water Resources Research</i> , 2016 , 52, 3742-3760	5.4	40
151	Climate-induced warming imposes a threat to north European spring ecosystems. <i>Global Change Biology</i> , 2015 , 21, 4561-9	11.4	39
150	Testing peatland water-table depth transfer functions using high-resolution hydrological monitoring data. <i>Quaternary Science Reviews</i> , 2015 , 120, 107-117	3.9	38
149	Groundwater-surface water interaction between an esker aquifer and a drained fen. <i>Journal of Hydrology</i> , 2012 , 432-433, 52-60	6	38
148	Leaching of nutrients and emission of greenhouse gases from peatland cultivation at Bodin, Northern Norway. <i>Geoderma</i> , 2010 , 154, 219-232	6.7	38
147	Characteristics of nitrogen and phosphorus loads in peat mining wastewater. <i>Water Research</i> , 2001 , 35, 2353-62	12.5	38
146	Recent and future trends in sea surface temperature across the Persian Gulf and Gulf of Oman. <i>PLoS ONE</i> , 2019 , 14, e0212790	3.7	35
145	Regionalization of precipitation characteristics in Iran's Lake Urmia basin. <i>Theoretical and Applied Climatology</i> , 2018 , 132, 363-373	3	34
144	Long-term trends and variation of acidity, COD(Mn) and colour in coastal rivers of Western Finland in relation to climate and hydrology. <i>Science of the Total Environment</i> , 2010 , 408, 5019-27	10.2	34
143	Iran's Agriculture in the Anthropocene. <i>Earth's Future</i> , 2020 , 8, e2020EF001547	7.9	33
142	Changes in short term river flow regulation and hydropeaking in Nordic rivers. <i>Scientific Reports</i> , 2018 , 8, 17232	4.9	32
141	Overview of groundwater sources and water-supply systems, and associated microbial pollution, in Finland, Norway and Iceland. <i>Hydrogeology Journal</i> , 2017 , 25, 1033-1044	3.1	31
140	Future options for cultivated Nordic peat soils: Can land management and rewetting control greenhouse gas emissions?. <i>Environmental Science and Policy</i> , 2017 , 69, 85-93	6.2	30
139	Variability in dryness and wetness in central Finland and the role of teleconnection patterns. <i>Theoretical and Applied Climatology</i> , 2015 , 122, 471-486	3	30

138	A sensitivity analysis of lake water level response to changes in climate and river regimes. <i>Limnologica</i> , 2015 , 51, 118-130	2	30
137	Adsorption kinetics of nitrate ions on ion exchange resin. <i>Desalination</i> , 2013 , 326, 125-134	10.3	30
136	Interannual variations and trends in surface air temperature in Finland in relation to atmospheric circulation patterns, 1961-2011. <i>International Journal of Climatology</i> , 2015 , 35, 3078-3092	3.5	30
135	Tracing sources of summer streamflow in boreal headwaters using isotopic signatures and water geochemical components. <i>Journal of Hydrology</i> , 2006 , 331, 186-204	6	30
134	Interaction of esker groundwater with headwater lakes and streams. <i>Journal of Hydrology</i> , 2013 , 500, 144-156	6	29
133	A Scenario-Based Approach for Assessing the Hydrological Impacts of Land Use and Climate Change in the Marboreh Watershed, Iran. <i>Environmental Modeling and Assessment</i> , 2020 , 25, 41-57	2	29
132	Do atmospheric teleconnection patterns explain variations and trends in thermal growing season parameters in Finland?. <i>International Journal of Climatology</i> , 2015 , 35, 4619-4630	3.5	28
131	Generation and regulation of summer runoff in a boreal flat fen. <i>Journal of Hydrology</i> , 2008 , 360, 15-30	6	28
130	Erosion and delivery of deposited peat sediment. <i>Water Resources Research</i> , 2008 , 44,	5.4	28
129	Quantifying groundwater dependence of a sub-polar lake cluster in Finland using an isotope mass balance approach. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 1247-1262	5.5	27
128	Restoration of nutrient-rich forestry-drained peatlands poses a risk for high exports of dissolved organic carbon, nitrogen, and phosphorus. <i>Science of the Total Environment</i> , 2017 , 586, 858-869	10.2	26
127	Assessing impacts of climate change and river regulation on flow regimes in cold climate: A study of a pristine and a regulated river in the sub-arctic setting of Northern Europe. <i>Journal of Hydrology</i> , 2016 , 542, 410-422	6	26
126	Spatial and temporal variability of diatom and macroinvertebrate communities: How representative are ecological classifications within a river system?. <i>Ecological Indicators</i> , 2012 , 18, 208-217	5.8	25
125	Managing runoff, water quality and erosion in peatland forestry by peak runoff control. <i>Ecological Engineering</i> , 2010 , 36, 900-911	3.9	25
124	Hydraulics and flow modelling of water treatment wetlands constructed on peatlands in Northern Finland. <i>Water Research</i> , 2008 , 42, 3826-36	12.5	25
123	Degradation of cultivated peat soils in northern Norway based on field scale CO ₂ , N ₂ O and CH ₄ emission measurements. <i>Archives of Agronomy and Soil Science</i> , 2006 , 52, 149-159	2	25
122	Impact of peatland drainage and restoration on esker groundwater resources: modeling future scenarios for management. <i>Hydrogeology Journal</i> , 2014 , 22, 1131-1145	3.1	24
121	Long-term phosphorus and nitrogen removal processes and preferential flow paths in Northern constructed peatlands. <i>Ecological Engineering</i> , 2009 , 35, 843-855	3.9	24

120	Analysis of Effective Environmental Flow Release Strategies for Lake Urmia Restoration. <i>Water Resources Management</i> , 2018 , 32, 3595-3609	3.7	24
119	Unsustainability Syndrome From Meteorological to Agricultural Drought in Arid and Semi-Arid Regions. <i>Water (Switzerland)</i> , 2020 , 12, 838	3	23
118	Monitoring Groundwater Storage Depletion Using Gravity Recovery and Climate Experiment (GRACE) Data in Bakhtegan Catchment, Iran. <i>Water (Switzerland)</i> , 2019 , 11, 1456	3	23
117	Development of a general river regime index (RRI) for intra-annual flow variation based on the unit river concept and flow variation end-points. <i>Journal of Hydrology</i> , 2013 , 503, 169-177	6	22
116	Arsenic, antimony, and nickel leaching from northern peatlands treating mining influenced water in cold climate. <i>Science of the Total Environment</i> , 2019 , 657, 1161-1172	10.2	22
115	Use of remote sensing to analyse peatland changes after drainage for peat extraction. <i>Land Degradation and Development</i> , 2018 , 29, 3479-3488	4.4	21
114	Changes in Pore Water Quality After Peatland Restoration: Assessment of a Large-Scale, Replicated Before-After-Control-Impact Study in Finland. <i>Water Resources Research</i> , 2017 , 53, 8327-8343	5.4	21
113	Ditch erosion processes and sediment transport in a drained peatland forest. <i>Ecological Engineering</i> , 2015 , 75, 421-433	3.9	20
112	Analysing the variability and trends of precipitation extremes in Finland and their connection to atmospheric circulation patterns. <i>International Journal of Climatology</i> , 2017 , 37, 1053-1066	3.5	19
111	Long-term purification efficiency and factors affecting performance in peatland-based treatment wetlands: An analysis of 28 peat extraction sites in Finland. <i>Ecological Engineering</i> , 2018 , 117, 153-164	3.9	19
110	Century-long variability and trends in daily precipitation characteristics at three Finnish stations. <i>Advances in Climate Change Research</i> , 2016 , 7, 54-69	4.1	19
109	Effects of climate variability and change on snowpack hydrological processes in Finland. <i>Cold Regions Science and Technology</i> , 2015 , 118, 14-29	3.8	18
108	Enhanced nitrogen removal of low carbon wastewater in denitrification bioreactors by utilizing industrial waste toward circular economy. <i>Journal of Cleaner Production</i> , 2020 , 254, 119973	10.3	18
107	Physical properties of peat soils under different land use options. <i>Soil Use and Management</i> , 2016 , 32, 400-410	3.1	18
106	A decision analysis framework for stakeholder involvement and learning in groundwater management. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 5141-5153	5.5	18
105	Changes in seasonality of groundwater level fluctuations in a temperate-cold climate transition zone. <i>Journal of Hydrology X</i> , 2020 , 8, 100062	4.6	18
104	Wintertime climate factors controlling snow resource decline in Finland. <i>International Journal of Climatology</i> , 2016 , 36, 110-131	3.5	18
103	Differential responses by stream and riparian biodiversity to in-stream restoration of forestry-impacted streams. <i>Journal of Applied Ecology</i> , 2017 , 54, 1505-1514	5.8	17

102	Quantifying spatial groundwater dependence in peatlands through a distributed isotope mass balance approach. <i>Water Resources Research</i> , 2017 , 53, 2524-2541	5.4	17
101	Effect of soil properties on peat erosion and suspended sediment delivery in drained peatlands. <i>Water Resources Research</i> , 2014 , 50, 3523-3535	5.4	17
100	Impact of peatland forestry on runoff water quality in areas with sulphide-bearing sediments; how to prevent acid surges. <i>Forest Ecology and Management</i> , 2013 , 293, 17-28	3.9	17
99	Long-term variability and trends in annual snowfall/total precipitation ratio in Finland and the role of atmospheric circulation patterns. <i>Cold Regions Science and Technology</i> , 2017 , 143, 23-31	3.8	17
98	Estimation of temporal and spatial variations in groundwater recharge in unconfined sand aquifers using Scots pine inventories. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 1961-1976	5.5	17
97	Wintertime purification efficiency of constructed wetlands treating runoff from peat extraction in a cold climate. <i>Ecological Engineering</i> , 2015 , 85, 13-25	3.9	16
96	Can lake sensitivity to desiccation be predicted from lake geometry?. <i>Journal of Hydrology</i> , 2016 , 539, 599-610	6	15
95	Solids management in freshwater-recirculating aquaculture systems: Effectivity of inorganic and organic coagulants and the impact of operating parameters. <i>Science of the Total Environment</i> , 2020 , 742, 140398	10.2	15
94	Potential impacts of a future Nordic bioeconomy on surface water quality. <i>Ambio</i> , 2020 , 49, 1722-1735	6.5	15
93	Defining the natural flow regimes of boreal rivers: relationship with benthic macroinvertebrate communities. <i>Freshwater Science</i> , 2016 , 35, 559-572	2	15
92	Increasing and Decreasing Nitrogen and Phosphorus Trends in Runoff from Drained Peatland Forests: Is There a Legacy Effect of Drainage or Not?. <i>Water, Air, and Soil Pollution</i> , 2018 , 229, 1	2.6	15
91	Environmental conditions of boreal springs explained by capture zone characteristics. <i>Journal of Hydrology</i> , 2015 , 531, 992-1002	6	14
90	Elevated nutrient concentrations in headwaters affected by drained peatland. <i>Science of the Total Environment</i> , 2018 , 643, 1304-1313	10.2	14
89	Ditch network maintenance in peat-dominated boreal forests: Review and analysis of water quality management options. <i>Ambio</i> , 2018 , 47, 535-545	6.5	14
88	Does groundwater protection in Europe require new EU-wide environmental quality standards?. <i>Frontiers in Chemistry</i> , 2014 , 2, 32	5	14
87	Caspian Sea is eutrophying: the alarming message of satellite data. <i>Environmental Research Letters</i> , 2020 , 15, 124047	6.2	14
86	Complex dynamics of water quality mixing in a warm mono-mictic reservoir. <i>Science of the Total Environment</i> , 2021 , 777, 146097	10.2	14
85	Design parameters for nitrogen removal by constructed wetlands treating mine waters and municipal wastewater under Nordic conditions. <i>Science of the Total Environment</i> , 2019 , 662, 559-570	10.2	13

84	Impact of managed aquifer recharge structure on river flow regimes in arid and semi-arid climates. <i>Science of the Total Environment</i> , 2019 , 675, 429-438	10.2	13
83	Hydrology and hydraulics of treatment wetlands constructed on drained peatlands. <i>Ecological Engineering</i> , 2015 , 75, 232-241	3.9	13
82	Assimilation of Satellite-Based Data for Hydrological Mapping of Precipitation and Direct Runoff Coefficient for the Lake Urmia Basin in Iran. <i>Water (Switzerland)</i> , 2019 , 11, 1624	3	13
81	Assessment of temporal and spatial variation in chemical composition of groundwater in an unconfined esker aquifer in the cold temperate climate of Northern Finland. <i>Cold Regions Science and Technology</i> , 2012 , 71, 118-128	3.8	13
80	Retention of Sediment and Nutrient Loads with Peak Runoff Control. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2009 , 135, 210-216	1.1	13
79	Use of Turbidity Measurements to Estimate Suspended Solids and Nutrient Loads from Peatland Forestry Drainage. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2012 , 138, 1088-1096	1.1	13
78	Runoff generation in a plough-drained cutover fen in Central Finland. <i>Journal of Hydrology</i> , 1999 , 218, 157-168	6	13
77	Atmospheric circulation patterns explaining climatological drought dynamics in the boreal environment of Finland, 1962-2011. <i>International Journal of Climatology</i> , 2017 , 37, 801-817	3.5	12
76	Thermal conductivity of unfrozen and partially frozen managed peat soils. <i>Soil and Tillage Research</i> , 2019 , 191, 245-255	6.5	12
75	Storage, properties and seasonal variations in fine-grained bed sediment within the main channel and headwaters of the River Sanginjoki, Finland. <i>Hydrological Processes</i> , 2014 , 28, 4756-4765	3.3	12
74	Predicting organic matter, nitrogen, and phosphorus concentrations in runoff from peat extraction sites using partial least squares regression. <i>Water Resources Research</i> , 2017 , 53, 5860-5876	5.4	12
73	Spatial and temporal variation in particle size and particulate organic matter content in suspended particulate matter from peatland-dominated catchments in Finland. <i>Hydrological Processes</i> , 2015 , 29, 1069-1079	3.3	12
72	Can treatment wetlands be constructed on drained peatlands for efficient purification of peat extraction runoff?. <i>Geoderma</i> , 2014 , 228-229, 33-43	6.7	12
71	Evaluation of erosion and surface roughness in peatland forest ditches using pin meter measurements and terrestrial laser scanning. <i>Earth Surface Processes and Landforms</i> , 2016 , 41, 1299-1314	3.7	12
70	The role of aluminium and iron in phosphorus removal by treatment peatlands. <i>Ecological Engineering</i> , 2016 , 86, 190-201	3.9	11
69	The mirage water concept and an index-based approach to quantify causes of hydrological changes in semi-arid regions. <i>Hydrological Sciences Journal</i> , 2020 , 65, 311-324	3.5	11
68	Snow to Precipitation Ratio Controls Catchment Storage and Summer Flows in Boreal Headwater Catchments. <i>Water Resources Research</i> , 2019 , 55, 4096-4109	5.4	10
67	Erosion mechanisms and sediment sources in a peatland forest after ditch cleaning. <i>Earth Surface Processes and Landforms</i> , 2016 , 41, 1841-1853	3.7	10

66	Transport of particle-associated elements in two agriculture-dominated boreal river systems. <i>Science of the Total Environment</i> , 2013 , 461-462, 693-705	10.2	10
65	Analysis of nitrogen removal processes in a subsurface flow carbonate sand filter treating municipal wastewater. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2005 , 40, 1381-401	2.3	10
64	Vulnerability of the Caspian Sea shoreline to changes in hydrology and climate. <i>Environmental Research Letters</i> , 2020 , 15, 115002	6.2	10
63	Long-term accumulation and retention of Al, Fe and P in peat soils of northern treatment wetlands. <i>Ecological Engineering</i> , 2016 , 93, 91-103	3.9	10
62	An Index-Based Approach to Assess the Water Availability for Irrigated Agriculture in Sub-Saharan Africa. <i>Water (Switzerland)</i> , 2018 , 10, 896	3	10
61	Runoff Curve Numbers for Peat-Dominated Watersheds. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 04014058	1.8	9
60	Optimisation of chemical purification conditions for direct application of solid metal salt coagulants: treatment of peatland-derived diffuse runoff. <i>Journal of Environmental Sciences</i> , 2013 , 25, 659-69	6.4	9
59	Calibration of turbidity meter and acoustic doppler velocimetry (Triton-ADV) for sediment types present in drained peatland headwaters: Focus on particulate organic peat. <i>River Research and Applications</i> , 2010 , 26, 1019-1035	2.3	9
58	RiMARS: An automated river morphodynamics analysis method based on remote sensing multispectral datasets. <i>Science of the Total Environment</i> , 2020 , 719, 137336	10.2	8
57	Model-based evaluation of sediment control in a drained peatland forest after ditch network maintenance. <i>Canadian Journal of Forest Research</i> , 2018 , 48, 130-140	1.9	8
56	Microbial diversity along a gradient in peatlands treating mining-affected waters. <i>FEMS Microbiology Ecology</i> , 2018 , 94,	4.3	8
55	Framework for designing and applying peak runoff control structures for peatland forestry conditions. <i>Forest Ecology and Management</i> , 2010 , 260, 1262-1273	3.9	8
54	What conditions favor the influence of seasonally frozen ground on hydrological partitioning? A systematic review. <i>Environmental Research Letters</i> , 2021 , 16, 043008	6.2	8
53	A comprehensive uncertainty analysis of model-estimated longitudinal and lateral dispersion coefficients in open channels. <i>Journal of Hydrology</i> , 2021 , 603, 126850	6	8
52	Protection of groundwater dependent ecosystems: current policies and future management options. <i>Water Policy</i> , 2014 , 16, 1070-1086	1.6	7
51	Land-use dominates climate controls on nitrogen and phosphorus export from managed and natural Nordic headwater catchments. <i>Hydrological Processes</i> , 2020 , 34, 4831-4850	3.3	7
50	Start-up of a zero-discharge recirculating aquaculture system using woodchip denitrification, constructed wetland, and sand infiltration. <i>Aquacultural Engineering</i> , 2021 , 93, 102161	3	7
49	Effects of recent temperature variability and warming on the Oulu-Hailuoto ice road season in the northern Baltic Sea. <i>Cold Regions Science and Technology</i> , 2018 , 151, 1-8	3.8	7

48	Combining unmanned aerial vehicle-based remote sensing and stable water isotope analysis to monitor treatment peatlands of mining areas. <i>Ecological Engineering</i> , 2019 , 133, 137-147	3.9	6
47	Impacts of gold mine effluent on water quality in a pristine sub-Arctic river. <i>Journal of Hydrology</i> , 2020 , 589, 125170	6	6
46	The role of atmospheric circulation patterns in agroclimate variability in Finland, 1961-2011. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2016 , 98, 287-301	1.1	6
45	Reliability of functional forms for calculation of longitudinal dispersion coefficient in rivers. <i>Science of the Total Environment</i> , 2021 , 791, 148394	10.2	6
44	A current precipitation index-based model for continuous daily runoff simulation in seasonally snow covered sub-arctic catchments. <i>Journal of Hydrology</i> , 2017 , 545, 182-196	6	5
43	A power market-based operation support model for sub-daily hydropower regulation practices. <i>Applied Energy</i> , 2019 , 255, 113905	10.7	5
42	Long-term data reveals the importance of hydraulic load and inflow water quality for Sb removal in boreal treatment peatlands. <i>Ecological Engineering</i> , 2020 , 148, 105785	3.9	5
41	Evaluating Impacts of Irrigation and Drought on River, Groundwater and a Terminal Wetland in the Zayanderud Basin, Iran. <i>Water (Switzerland)</i> , 2020 , 12, 1302	3	5
40	Conceptual Mini-Catchment Typologies for Testing Dominant Controls of Nutrient Dynamics in Three Nordic Countries. <i>Water (Switzerland)</i> , 2020 , 12, 1776	3	5
39	Evaluating the suitability of synthetic organic polymers to replace iron salts in the purification of humic and sediment-rich runoff. <i>Desalination and Water Treatment</i> , 2016 , 57, 10948-10957		5
38	Regionalization of potential evapotranspiration using a modified region of influence. <i>Theoretical and Applied Climatology</i> , 2020 , 140, 115-127	3	5
37	Using Geomembrane Liners to Reduce Seepage through the Base of Tailings Ponds: A Review and a Framework for Design Guidelines. <i>Geosciences (Switzerland)</i> , 2021 , 11, 93	2.7	5
36	Peatland subsidence enhances cultivated lowland flood risk. <i>Soil and Tillage Research</i> , 2021 , 212, 105078	6.5	5
35	Parameterisation of an integrated groundwater-surface water model for hydrological analysis of boreal peat mire wetlands. <i>Journal of Hydrology</i> , 2019 , 575, 175-191	6	4
34	A tracer-based method for classifying groundwater dependence in boreal headwater streams. <i>Journal of Hydrology</i> , 2019 , 577, 123762	6	4
33	Purification efficiency of a peatland-based treatment wetland during snowmelt and runoff events. <i>Ecological Engineering</i> , 2015 , 84, 169-179	3.9	4
32	Effects of Drainage and Subsequent Restoration on Peatland Hydrological Processes at Catchment Scale. <i>Water Resources Research</i> , 2018 , 54, 4479-4497	5.4	4
31	Effect and design of an underminer structure. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2010 , 48, 188-196	1.9	4

30	Status of risk-based approach and national framework for safe drinking water in small water supplies of the Nordic water sector. <i>International Journal of Hygiene and Environmental Health</i> , 2020 , 230, 113627	6.9	4
29	Fog-water harvesting Capability Index (FCI) mapping for a semi-humid catchment based on socio-environmental variables and using artificial intelligence algorithms. <i>Science of the Total Environment</i> , 2020 , 708, 135115	10.2	4
28	Spatiotemporal Variability and Trends in Extreme Temperature Events in Finland over the Recent Decades: Influence of Northern Hemisphere Teleconnection Patterns. <i>Advances in Meteorology</i> , 2018 , 2018, 1-17	1.7	4
27	Snow profile temperature measurements in spatiotemporal analysis of snowmelt in a subarctic forest-mire hillslope. <i>Cold Regions Science and Technology</i> , 2018 , 151, 119-132	3.8	3
26	Assessment of uncertainty in constructed wetland treatment performance and load estimation methods. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 365	3.1	3
25	pH-levels in intensively drained and peatland-dominated river basin: Paleolimnological approach to detect impacts of past land use. <i>Ecological Engineering</i> , 2014 , 64, 367-376	3.9	3
24	Optimization of Water-Energy-Food Nexus considering CO ₂ emissions from cropland: A case study in northwest Iran. <i>Applied Energy</i> , 2022 , 307, 118236	10.7	3
23	Design, construction and monitoring of pilot systems to evaluate the effect of freeze-thaw cycles on pollutant retention in wetlands. <i>Science of the Total Environment</i> , 2020 , 703, 134713	10.2	3
22	Hydraulic and Physical Properties of Managed and Intact Peatlands: Application of the Van Genuchten-Mualem Models to Peat Soils. <i>Water Resources Research</i> , 2021 , 57, e2020WR028624	5.4	3
21	Understanding variability in root zone storage capacity in boreal regions. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 125-138	5.5	2
20	Optimization of Gravity-Driven Hydraulic Flocculators to Treat Peat Extraction Runoff Water. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2016 , 142, 04015045	1.1	2
19	Polar Ice as an Unconventional Water Resource: Opportunities and Challenges. <i>Water (Switzerland)</i> , 2021 , 13, 3220	3	2
18	Development of Aerial Photos and LIDAR Data Approaches to Map Spatial and Temporal Evolution of Ditch Networks in Peat-Dominated Catchments. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2021 , 147, 04021006	1.1	2
17	Irrigation Requirement for <i>Eucalyptus pellita</i> during Initial Growth. <i>Water (Switzerland)</i> , 2019 , 11, 1972	3	2
16	Restoration increases transient storages in boreal headwater streams. <i>River Research and Applications</i> , 2018 , 34, 1278-1285	2.3	2
15	Atmospheric circulation patterns influencing variations in organic carbon fluxes in the River Oulujoki, Finland. <i>Water and Environment Journal</i> , 2015 , 29, 474-481	1.7	1
14	A study of K variability and its effect on solute transport in subsurface-flow sand filters by measurement and modelling. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2005 , 40, 1123-32	2.3	1
13	Experimental-numerical simulation of soluble formations in reservoirs. <i>Advances in Water Resources</i> , 2022 , 160, 104109	4.7	1

12	Implications of Peat Soil Conceptualization for Groundwater Exfiltration in Numerical Modeling: A Study on a Hypothetical Peatland Hillslope. <i>Water Resources Research</i> , 2020 , 56, e2019WR026203	5.4	1
11	Modelling CO and CH emissions from drained peatlands with grass cultivation by the BASGRA-BGC model. <i>Science of the Total Environment</i> , 2021 , 765, 144385	10.2	1
10	Greenhouse Gas Dynamics of a Northern Boreal Peatland Used for Treating Metal Mine Wastewater. <i>Wetlands</i> , 2018 , 38, 905-917	1.7	1
9	Combined use of satellite image analysis, land-use statistics, and land-use-specific export coefficients to predict nutrients in drained peatland catchment. <i>Science of the Total Environment</i> , 2021 , 779, 146419	10.2	1
8	A Method for Assessment of Sub-Daily Flow Alterations Using Wavelet Analysis for Regulated Rivers. <i>Water Resources Research</i> , 2022 , 58,	5.4	1
7	A simple model structure enhances parameter identification and improves runoff prediction in ungauged high-latitude catchments. <i>Journal of Hydrology</i> , 2018 , 563, 395-410	6	0
6	Nitrogen removal of mine-influenced water in a hybrid bioreactor with floating hook-moss (<i>Warnstorfia fluitans</i>) in cold climate conditions. <i>Ecological Engineering</i> , 2022 , 177, 106562	3.9	0
5	Subarctic catchment water storage and carbon cycling [Leading the way for future studies using integrated datasets at Pallas, Finland. <i>Hydrological Processes</i> , 2021 , 35, e14350	3.3	0
4	An index-based approach for assessment of upstream-downstream flow regime alteration. <i>Journal of Hydrology</i> , 2021 , 600, 126697	6	0
3	Thickness of peat influences the leaching of substances and greenhouse gas emissions from a cultivated organic soil. <i>Science of the Total Environment</i> , 2022 , 806, 150499	10.2	0
2	Peak Spring Flood Discharge Magnitude and Timing in Natural Rivers across Northern Finland: Long-Term Variability, Trends, and Links to Climate Teleconnections. <i>Water (Switzerland)</i> , 2022 , 14, 1312 ³		0
1	Smart drainage management to limit summer drought damage in Nordic agriculture under the circular economy concept. <i>Hydrological Processes</i> ,	3.3	