Katri Rankinen

List of Publications by Year
in descending order

42 papers	1,145 citations	430874 18 h-index	414414 32 g-index
46 all docs	46 docs citations	46 times ranked	1759 citing authors

#	Article	IF	Citations
1	Impacts of multiple stressors on freshwater biota across spatial scales and ecosystems. Nature Ecology and Evolution, 2020, 4, 1060-1068.	7.8	336
2	Assessment of water protection targets for agricultural nutrient loading in Finland. Journal of Hydrology, 2005, 304, 251-260.	5.4	71
3	An assessment of the fine sediment dynamics in an upland river system: INCA-Sed modifications and implications for fisheries. Science of the Total Environment, 2010, 408, 2555-2566.	8.0	61
4	An application of the GLUE methodology for estimating the parameters of the INCA-N model. Science of the Total Environment, 2006, 365, 123-139.	8.0	49
5	Influence of climate and land use changes on nutrient fluxes from Finnish rivers to the Baltic Sea. Agriculture, Ecosystems and Environment, 2016, 216, 100-115.	5.3	43
6	Review and assessment of nitrate reduction in groundwater in the Baltic Sea Basin. Journal of Hydrology: Regional Studies, 2017, 12, 50-68.	2.4	43
7	The INtegrated CAtchment model of phosphorus dynamics (INCA-P): Description and demonstration of new model structure and equations. Environmental Modelling and Software, 2016, 83, 356-386.	4.5	42
8	Impacts and adaptation options of climate change on ecosystem services in Finland: a model based study. Current Opinion in Environmental Sustainability, 2013, 5, 26-40.	6.3	40
9	An INCA model for pathogens in rivers and catchments: Model structure, sensitivity analysis and application to the River Thames catchment, UK. Science of the Total Environment, 2016, 572, 1601-1610.	8.0	31
10	Ecosystem Services Related to Carbon Cycling â€“ Modeling Present and Future Impacts in Boreal Forests. Frontiers in Plant Science, 2019, 10, 343.	3.6	31
11	The future depends on what we do today â€“ Projecting Europe's surface water quality into three different future scenarios. Science of the Total Environment, 2019, 668, 470-484.	8.0	31
12	Potential impacts of a future Nordic bioeconomy on surface water quality. Ambio, 2020, 49, 1722-1735.	5.5	31
13	Abating N in Nordic agriculture - Policy, measures and way forward. Journal of Environmental Management, 2019, 236, 674-686.	7.8	27
14	Identifying multiple stressors that influence eutrophication in a Finnish agricultural river. Science of the Total Environment, 2019, 658, 1278-1292.	8.0	27
15	The role of bacteria in the nutrient exchange between sediment and water in a flow-through system. Microbial Ecology, 1995, 29, 129-144.	2.8	22
16	Nordic Bioeconomy Pathways: Future narratives for assessment of water-related ecosystem services in agricultural and forest management. Ambio, 2020, 49, 1710-1721.	5.5	22
17	Phosphorus and nitrogen fluxes carried by 21 Finnish agricultural rivers in 1985â€“2006. Environmental Monitoring and Assessment, 2015, 187, 216.	2.7	20
18	Comparison of impacts of human activities and climate change on water quantity and quality in Finnish agricultural catchments. Landscape Ecology, 2015, 30, 415-428.	4.2	20

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19	Nitrogen fertilization of grass leys: Yield production and risk of N leaching. Agriculture, Ecosystems and Environment, 2016, 230, 341-352.	5.3	20
20	Developing a spatially explicit modelling and evaluation framework for integrated carbon sequestration and biodiversity conservation: Application in southern Finland. Science of the Total Environment, 2021, 775, 145847.	8.0	18
21	Climate change adaptation in arable land use, and impact on nitrogen load at catchment scale in northern agriculture. Agricultural and Food Science, 2013, 22, 342-355.	0.9	18
22	Application of catchment scale sediment delivery model INCA-Sed to four small study catchments in Finland. Catena, 2010, 83, 64-75.	5.0	15
23	Ecological recycling agriculture can reduce inorganic nitrogen losses â€“ model results from three Finnish catchments. Agricultural Systems, 2015, 133, 167-176.	6.1	12
24	The INCA-Pathogens model: An application to the Loimijoki River basin in Finland. Science of the Total Environment, 2016, 572, 1611-1621.	8.0	12
25	Impacts of agri-environmental policy on land use and nitrogen leaching in Finland. Environmental Science and Policy, 2015, 50, 130-144.	4.9	11
26	Sources and sinks of greenhouse gases in the landscape: Approach for spatially explicit estimates. Science of the Total Environment, 2021, 781, 146668.	8.0	9
27	Sensitivity of soil acidification model to deposition and forest growth. Ecological Modelling, 2000, 135, 311-325.	2.5	8
28	Integrated Nitrogen Modeling in a Boreal Forestry Dominated River Basin: N Fluxes and Retention in Lakes and Peatlands. Water, Air and Soil Pollution, 2004, 4, 113-123.	0.8	8
29	ESLab application to a boreal watershed in southern Finland: preparing for a virtual research environment of ecosystem services. Landscape Ecology, 2015, 30, 561-577.	4.2	8
30	Comparing nutrient reference concentrations in Nordic countries with focus on lowland rivers. Ambio, 2020, 49, 1771-1783.	5.5	8
31	Assessing multiple stressor effects to inform climate change management responses in three European catchments. Inland Waters, 2022, 12, 94-106.	2.2	7
32	Valuation of nitrogen retention as an ecosystem service on a catchment scale. Hydrology Research, 2014, 45, 411-424.	2.7	6
33	Reducing uncertainty in the calibration and validation of the INCA-N model by using soft data. Hydrology Research, 2014, 45, 73-88.	2.7	6
34	Nutrient Load Mitigation with Wintertime Cover as Estimated by the INCA Model. Water (Switzerland), 2021, 13, 450.	2.7	5
35	Integrated Nitrogen and Flow Modelling (INCA) in a Boreal River Basin Dominated by Forestry: Scenarios of Environmental Change. Water, Air and Soil Pollution, 2004, 4, 161-174.	0.8	4
36	Land Use Change to Reduce Freshwater Nitrogen and Phosphorus will Be Effective Even with Projected Climate Change. Water (Switzerland), 2022, 14, 829.	2.7	4

#	Article	IF	Citations
37	Using phenological information derived from MODIS-data to aid nutrient modeling. , 2007, , .		3
38	Simulated nitrogen leaching patterns and adaptation to climate change in two Finnish river basins with contrasting land use and climatic conditions. Hydrology Research, 2009, 40, 177-186.	2.7	3
39	Framework to Study the Effects of Climate Change on Vulnerability of Ecosystems and Societies: Case Study of Nitrates in Drinking Water in Southern Finland. Water (Switzerland), 2021, 13, 472.	2.7	3
40	Integrated Nitrogen and Flow Modelling (INCA) in a Boreal River Basin Dominated by Forestry: Scenarios of Environmental Change. , 2004, , 161-174.		3
41	Technical Note: Alternative in-stream denitrification equation for the INCA-N model. Hydrology and Earth System Sciences, 2014, 18, 1467-1473.	4.9	3
42	Concentration of organic carbon in Finnish catchments and variables involved in its variations. Journal of Environmental Management, 2022, 302, 113981.	7.8	1