Dennis Trolle

List of Publications by Year
in descending order

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67 papers	3,308 citations	159525 30 h-index	149623 56 g-index
70 all docs	70 docs citations	70 times ranked	3628 citing authors

#	Article	IF	Citations
1	Are maps of nitrate reduction in groundwater altered by climate and land use changes?. Hydrology and Earth System Sciences, 2022, 26, 955-973.	1.9	6
2	Land Use Change to Reduce Freshwater Nitrogen and Phosphorus will Be Effective Even with Projected Climate Change. Water (Switzerland), 2022, 14, 829.	1.2	4
3	Impacts of land use, climate change and hydrological model structure on nitrate fluxes: Magnitudes and uncertainties. Science of the Total Environment, 2022, 830, 154671.	3.9	15
4	Water Ecosystems Tool (WET) 1.0 â€“ a new generation of flexible aquatic ecosystem model. Geoscientific Model Development, 2022, 15, 3861-3878.	1.3	8
5	How morphology shapes the parameter sensitivity of lake ecosystem models. Environmental Modelling and Software, 2021, 136, 104945.	1.9	16
6	Introducing QWET â€“ A QGIS-plugin for application, evaluation and experimentation with the WET model. Environmental Modelling and Software, 2021, 135, 104886.	1.9	15
7	Assessing Impacts of Changes in External Nutrient Loadings on a Temperate Chinese Drinking Water Reservoir. Frontiers in Environmental Science, 2021, 9, .	1.5	3
8	The impacts of extreme climate on summer-stratified temperate lakes: Lake SÃ¸holm, Denmark, as an example. Hydrobiologia, 2021, 848, 3521-3537.	1.0	8
9	A comparison of frameworks for separating the impacts of human activities and climate change on river flow in existing records and different <scp>nearâ€future</scp> scenarios. Hydrological Processes, 2021, 35, e14301.	1.1	8
10	A holistic approach for determining the hydrology of the mar menor coastal lagoon by combining hydrological & hydrodynamic models. Journal of Hydrology, 2021, 603, 127150.	2.3	20
11	Assessing the impacts of groundwater abstractions on flow regime and stream biota: Combining SWAT-MODFLOW with flow-biota empirical models. Science of the Total Environment, 2020, 706, 135702.	3.9	23
12	Quantifying the effects of climate change on hydrological regime and stream biota in a groundwater-dominated catchment: A modelling approach combining SWAT-MODFLOW with flow-biota empirical models. Science of the Total Environment, 2020, 745, 140933.	3.9	24
13	Predicting ecosystem state changes in shallow lakes using an aquatic ecosystem model: Lake Hinge, Denmark, an example. Ecological Applications, 2020, 30, e02160.	1.8	33
14	The impact of climate change on a Mediterranean shallow lake: insights based on catchment and lake modelling. Regional Environmental Change, 2020, 20, 1.	1.4	30
15	Modeling the Ecological Response of a Temporarily Summer-Stratified Lake to Extreme Heatwaves. Water (Switzerland), 2020, 12, 94.	1.2	16
16	Quantifying the streamflow response to groundwater abstractions for irrigation or drinking water at catchment scale using SWAT and SWATâ€“MODFLOW. Environmental Sciences Europe, 2020, 32, .	2.6	28
17	Assessment of land use and climate change effects on land subsidence using a hydrological model and radar technique. Journal of Hydrology, 2019, 578, 124070.	2.3	31
18	Forecasting near-future impacts of land use and climate change on the Zilbier river hydrological regime, northwestern Iran. Environmental Earth Sciences, 2019, 78, 1.	1.3	15

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19	Comparison of abstraction scenarios simulated by SWAT and SWAT-MODFLOW. Hydrological Sciences Journal, 2019, 64, 434-454.	1.2	57
20	Modeling the impacts of climate change on the thermal and oxygen dynamics of Lake Volta. Journal of Great Lakes Research, 2019, 45, 73-86.	0.8	15
21	Effects of changes in land use and climate on aquatic ecosystems: Coupling of models and decomposition of uncertainties. Science of the Total Environment, 2019, 657, 627-633.	3.9	48
22	A QGIS-based graphical user interface for application and evaluation of SWAT-MODFLOW models. Environmental Modelling and Software, 2019, 111, 493-497.	1.9	48
23	Modelling the fate and transport of Cryptosporidium, a zoonotic and waterborne pathogen, in the Daning River watershed of the Three Gorges Reservoir Region, China. Journal of Environmental Management, 2019, 232, 462-474.	3.8	14
24	A multi-lake comparative analysis of the General Lake Model (GLM): Stress-testing across a global observatory network. Environmental Modelling and Software, 2018, 102, 274-291.	1.9	93
25	Modeling the effects of climatic and land use changes on phytoplankton and water quality of the largest Turkish freshwater lake: Lake BeyÅŸehir. Science of the Total Environment, 2018, 621, 802-816.	3.9	97
26	Quantifying the combined effects of land use and climate changes on stream flow and nutrient loads: A modelling approach in the Odense Fjord catchment (Denmark). Science of the Total Environment, 2018, 621, 253-264.	3.9	79
27	A GIS-based framework for quantifying potential shadow casts on lakes applied to a Danish lake experimental facility. International Journal of Applied Earth Observation and Geoinformation, 2018, 73, 746-751.	1.4	2
28	Autocalibration of a one-dimensional hydrodynamic-ecological model (DYRESM 4.0-CAEDYM 3.1) using a Monte Carlo approach: simulations of hypoxic events in a polymictic lake. Geoscientific Model Development, 2018, 11, 903-913.	1.3	18
29	A QGIS plugin to tailor SWAT watershed delineations to lake and reservoir waterbodies. Environmental Modelling and Software, 2018, 108, 67-71.	1.9	18
30	Testing a New Holistic Management Tool for Nitrogenâ€"Environmental Impacts of Using Manure Acidification in the Danish Agricultural Sector. Springer Proceedings in Complexity, 2018, , 535-539.	0.2	0
31	Future water availability in the largest freshwater Mediterranean lake is at great risk as evidenced from simulations with the SWAT model. Science of the Total Environment, 2017, 581-582, 413-425.	3.9	62
32	The impact of the objective function in multi-site and multi-variable calibration of the SWAT model. Environmental Modelling and Software, 2017, 93, 255-267.	1.9	75
33	An open source QGIS-based workflow for model application and experimentation with aquatic ecosystems. Environmental Modelling and Software, 2017, 95, 358-364.	1.9	36
34	Modelling Nutrient Load Changes from Fertilizer Application Scenarios in Six Catchments around the Baltic Sea. Agriculture (Switzerland), 2017, 7, 41.	1.4	15
35	FABM-PCLake â€“ linking aquatic ecology with hydrodynamics. Geoscientific Model Development, 2016, 9, 2271-2278.	1.3	49
36	Climate Change Will Make Recovery from Eutrophication More Difficult in Shallow Danish Lake SÃ¸bygaard. Water (Switzerland), 2016, 8, 459.	1.2	36

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37	Spatial heterogeneity in geothermally-influenced lakes derived from atmospherically corrected Landsat thermal imagery and three-dimensional hydrodynamic modelling. International Journal of Applied Earth Observation and Geoinformation, 2016, 50, 106-116.	1.4	21
38	Modeling the response of phytoplankton to reduced external nutrient load in a subtropical Chinese reservoir using DYRESM-CAEDYM. Lake and Reservoir Management, 2016, 32, 146-157.	0.4	28
39	Major changes in CO2 efflux when shallow lakes shift from a turbid to a clear water state. Hydrobiologia, 2016, 778, 33-44.	1.0	22
40	Combined effects of climate models, hydrological model structures and land use scenarios on hydrological impacts of climate change. Journal of Hydrology, 2016, 535, 301-317.	2.3	156
41	Extended SWAT model for dissolved reactive phosphorus transport in tile-drained fields and catchments. Agricultural Water Management, 2016, 175, 78-90.	2.4	16
42	Environmental Impactsâ€"Lake Ecosystems. Regional Climate Studies, 2016, , 315-340.	1.2	14
43	Advantages of concurrent use of multiple software frameworks in water quality modelling using a database approach. Fundamental and Applied Limnology, 2015, 186, 5-20.	0.4	20
44	A Global Lake Ecological Observatory Network (GLEON) for synthesising highâ€"frequency sensor data for validation of deterministic ecological models. Inland Waters, 2015, 5, 49-56.	1.1	62
45	The combined effects of fertilizer reduction on high risk areas and increased fertilization on low risk areas, investigated using the SWAT model for a Danish catchment. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2015, 65, 217-227.	0.3	7
46	Exploring, exploiting and evolving diversity of aquatic ecosystem models: a community perspective. Aquatic Ecology, 2015, 49, 513-548.	0.7	97
47	Modelling sediment and total phosphorus export from a lowland catchment: comparing sediment routing methods. Hydrological Processes, 2015, 29, 280-294.	1.1	18
48	Climate change impacts on lakes: an integrated ecological perspective based on a multi-faceted approach, with special focus on shallow lakes. Journal of Limnology, 2014, 73, .	0.3	235
49	Effects of climate and nutrient load on the water quality of shallow lakes assessed through ensemble runs by PCLake. Ecological Applications, 2014, 24, 1926-1944.	1.8	55
50	Advancing projections of phytoplankton responses to climate change through ensemble modelling. Environmental Modelling and Software, 2014, 61, 371-379.	1.9	78
51	Hydrological and water quality impact assessment of a Mediterranean limno-reservoir under climate change and land use management scenarios. Journal of Hydrology, 2014, 509, 354-366.	2.3	168
52	Application of a Three-Dimensional Water Quality Model as a Decision Support Tool for the Management of Land-Use Changes in the Catchment of an Oligotrophic Lake. Environmental Management, 2014, 54, 479-493.	1.2	25
53	Serving many at once: How a database approach can create unity in dynamical ecosystem modelling. Environmental Modelling and Software, 2014, 61, 266-273.	1.9	31
54	Assessing ways to combat eutrophication in a Chinese drinking water reservoir using SWAT. Marine and Freshwater Research, 2013, 64, 475.	0.7	33

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55	Daily net ecosystem production in lakes predicted from midday dissolved oxygen saturation: analysis of a fiveâ€year high frequency dataset from 24 mesocosms with contrasting trophic states and temperatures. Limnology and Oceanography: Methods, 2013, 11, 202-212.	1.0	8
56	Watershed land use effects on lake water quality in Denmark. Ecological Applications, 2012, 22, 1187-1200.	1.8	136
57	Biomanipulation as a Restoration Tool to Combat Eutrophication. Advances in Ecological Research, 2012, 47, 411-488.	1.4	211
58	Seasonal Dynamics of CO2 Flux Across the Surface of Shallow Temperate Lakes. Ecosystems, 2012, 15, 336-347.	1.6	75
59	A Bayesian synthesis of predictions from different models for setting water quality criteria. Ecological Modelling, 2012, 242, 127-145.	1.2	38
60	A community-based framework for aquatic ecosystem models. Hydrobiologia, 2012, 683, 25-34.	1.0	87
61	Predicting the effects of climate change on trophic status of three morphologically varying lakes: Implications for lake restoration and management. Environmental Modelling and Software, 2011, 26, 354-370.	1.9	155
62	Challenges and opportunities for integrating lake ecosystem modelling approaches. Aquatic Ecology, 2010, 44, 633-667.	0.7	208
63	Evaluating the influence of lake morphology, trophic status and diagenesis on geochemical profiles in lake sediments. Applied Geochemistry, 2010, 25, 621-632.	1.4	23
64	The influence of water quality and sediment geochemistry on the horizontal and vertical distribution of phosphorus and nitrogen in sediments of a large, shallow lake. Hydrobiologia, 2009, 627, 31-44.	1.0	57
65	The Water Framework Directive: Setting the phosphorus loading target for a deep lake in Denmark using the 1D lake ecosystem model DYRESMâ€“CAEDYM. Ecological Modelling, 2008, 219, 138-152.	1.2	79
66	Predicting the effects of reduced external nitrogen loading on the nitrogen dynamics and ecological state of deep Lake Ravn, Denmark, using the DYRESMâ€“CAEDYM model. Limnologica, 2008, 38, 220-232.	0.7	47
67	Sediment and nutrient accumulation rates in sediments of twelve New Zealand lakes: influence of lake morphology, catchment characteristics and trophic state. Marine and Freshwater Research, 2008, 59, 1067.	0.7	25