Frank Wendland

List of Publications by Year
in descending order

48	1,031	430874 18	477307 29
papers	citations	h-index	g-index

54	54	54	1016
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The GROWA98 model for water balance analysis in large river basinsâ€"the river Elbe case study. Journal of Hydrology, 2002, 259, 152-162.	5.4	76
2	European aquifer typology: a practical framework for an overview of major groundwater composition at European scale. Environmental Geology, 2008, 55, 77-85.	1.2	73
3	Distributed modeling of groundwater recharge at the macroscale. Ecological Modelling, 2005, 187, 15-26.	2.5	54
4	Derivation of natural background levels and threshold values for groundwater bodies in the Upper Rhine Valley (France, Switzerland and Germany). Desalination, 2008, 226, 160-168.	8.2	53
5	Modelling the water balance of a mesoscale catchment basin using remotely sensed land cover data. Journal of Hydrology, 2008, 353, 322-334.	5.4	53
6	Quantification of Climate Change Impact on Regional Agricultural Irrigation and Groundwater Demand. Water Resources Management, 2015, 29, 3585-3600.	3.9	45
7	Model based impact analysis of policy options aiming at reducing diffuse pollution by agricultureâ€"a case study for the river Ems and a sub-catchment of the Rhine. Environmental Modelling and Software, 2005, 20, 261-271.	4.5	43
8	Distributed modelling of mean annual soil erosion and sediment delivery rates to surface waters. Catena, 2013, 102, 13-20.	5.0	37
9	Determination of spatially differentiated water balance components including groundwater recharge on the Federal State level â€“ A case study using the mGROWA model in North Rhine-Westphalia (Germany). Journal of Hydrology: Regional Studies, 2015, 4, 294-312.	2.4	33
10	Multispectral remotely sensed data in modelling the annual variability of nitrate concentrations in the leachate. Environmental Modelling and Software, 2008, 23, 1070-1081.	4.5	31
11	Modelling water fluxes for the analysis of diffuse pollution at the river basin scale. Hydrological Processes, 2000, 14, 1707-1723.	2.6	30
12	Model Based Assessment of Nitrate Pollution of Water Resources on a Federal State Level for the Dimensioning of Agro-environmental Reduction Strategies. Water Resources Management, 2013, 27, 885-909.	3.9	29
13	Planning and implementation of nitrogen reduction measures in catchment areas based on a determination and ranking of target areas. Desalination, 2008, 226, 1-12.	8.2	24
14	Determination of nitrogen reduction levels necessary to reach groundwater quality targets in large river basins: the Weser basin case study, Germany. Nutrient Cycling in Agroecosystems, 2009, 85, 63-78.	2.2	23
15	Impact of nitrogen reduction measures on the nitrogen loads of the river Ems and Rhine (Germany). Physics and Chemistry of the Earth, 2005, 30, 527-541.	2.9	20
16	A new method for creating maps of artificially drained areas in large river basins based on aerial photographs and geodata. Irrigation and Drainage, 2009, 58, 569-585.	1.7	20
17	Model-Based Analysis of Nitrate Concentration in the Leachateâ€"The North Rhine-Westfalia Case Study, Germany. Water (Switzerland), 2020, 12, 550.	2.7	20
18	Sensitivity of mGROWA-simulated groundwater recharge to changes in soil and land use parameters in a Mediterranean environment and conclusions in view of ensemble-based climate impact simulations. Science of the Total Environment, 2016, 543, 937-951.	8.0	19

#	Article	IF	Citations
19	Simulation of future groundwater recharge using a climate model ensemble and SAR-image based soil parameter distributions â€" A case study in an intensively-used Mediterranean catchment. Science of the Total Environment, 2016, 543, 889-905.	8.0	19
20	Simulation of terrestrial nitrogen fluxes in Mecklenburg-Vorpommern and scenario analyses how to reach N-quality targets for groundwater and the coastal waters. Environmental Earth Sciences, 2017, 76, 1.	2.7	19
21	GIS-based determination of the mean long-term groundwater recharge in Lower Saxony. Environmental Geology, 2003, 45, 273-278.	1.2	18
22	Forecasting the effects of EU policy measures on the nitrate pollution of groundwater and surface waters. Journal of Environmental Sciences, 2010, 22, 872-877.	6.1	18
23	Water fluxes and diffuse nitrate pollution at river basin scale: coupling of agro-economic models and hydrological approaches. Water Science and Technology, 2007, 55, 133-142.	2.5	16
24	Modelling phosphorus inputs from agricultural sources and urban areas in river basins. Environmental Geology, 2009, 57, 183-193.	1.2	16
25	Modelling Sediment Input to Surface Waters for German States with MEPhos: Methodology, Sensitivity and Uncertainty. Water Resources Management, 2012, 26, 165-184.	3.9	16
26	Projected impact of climate change on irrigation needs and groundwater resources in the metropolitan area of Hamburg (Germany). Environmental Earth Sciences, 2016, 75, 1.	2.7	16
27	Aerial photograph-based delineation of artificially drained areas as a basis for water balance and phosphorus modelling in large river basins. Physics and Chemistry of the Earth, 2009, 34, 552-564.	2.9	15
28	Assessment of climate change impact in the hydrological regime of River Pinios Basin, central Greece. Desalination and Water Treatment, 2016, 57, 2256-2267.	1.0	15
29	Integrated Agricultural and Hydrological Modeling within an Intensive Livestock Region. Advances in the Economics of Environmental Resources, 2007, , 113-142.	0.0	15
30	Determination of nitrogen reduction levels necessary to reach groundwater quality targets in Slovenia. Journal of Environmental Sciences, 2014, 26, 1806-1817.	6.1	14
31	Checking the Plausibility of Modelled Nitrate Concentrations in the Leachate on Federal State Scale in Germany. Water (Switzerland), 2021, 13, 226.	2.7	14
32	Modelling the nitrate flow in the ground-water provinces of the â€œoldâ€•federal states of the Federal Republic of Germany. Ecological Modelling, 1994, 75-76, 385-397.	2.5	13
33	Groundwater recharge rates for regional groundwater modelling: a case study using GROWA in the Lower Rhine lignite mining area, Germany. Hydrogeology Journal, 2009, 17, 2049-2060.	2.1	13
34	Modeling groundwater recharge through rainfall in the Far-North region of Cameroon. Groundwater for Sustainable Development, 2017, 5, 118-130.	4.6	13
35	Area-differentiated modelling of P-fluxes in heterogeneous macroscale river basins. Water Science and Technology, 2007, 55, 123-131.	2.5	12
36	Model-based assessment of groundwater recharge in Slovenia. Environmental Earth Sciences, 2015, 74, 6177-6192.	2.7	11

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37	Hydrologic and Geochemical Research at Pinios Hydrologic Observatory: Initial Results. Vadose Zone Journal, 2018, 17, 1-16.	2.2	11
38	The influence of diffuse pollution on groundwater content patterns for the groundwater bodies of Germany. Water Science and Technology, 2007, 55, 97-105.	2.5	8
39	Development of a conceptual hydrogeological model for the evaluation of residence times of water in soil and groundwater: the state of Hesse case study, Germany. Environmental Earth Sciences, 2012, 67, 2239-2250.	2.7	8
40	The analysis of nitrogen load and simulation uncertainty using SWAT in a catchment with paddy field in China. Water Science and Technology, 2019, 80, 806-816.	2.5	8
41	Grid-based modelling of nutrient inputs from diffuse and point sources for the state of North Rhine-Westphalia (Germany) as a tool for river basin management according to EU-WFD. River Systems, 2013, 20, 213-229.	0.2	7
42	Implementing a Statewide Deficit Analysis for Inland Surface Waters According to the Water Framework Directiveâ€"An Exemplary Application on Phosphorus Pollution in Schleswig-Holstein (Northern Germany). Water (Switzerland), 2020, 12, 1365.	2.7	3
43	Impact of Climate Change on Irrigation Need and Groundwater Resources in Pinios Basin. Proceedings (mdpi), 2018, 2, .	0.2	2
44	Assessment of groundwater residence times in the pore aquifers of the River Elbe Basin. Environmental Geology, 2003, -1, 1-1.	1.2	1
45	Assessing necessary nutrient reduction for measurement planning in groundwater bodies. Water Science and Technology, 2008, 58, 2295-2302.	2.5	1
46	Climate change impact assessment under data scarcity by hydrological and hydrodynamic modeling in Izmit Bay/Turkey. Environmental Research and Technology, 0, , .	0.7	1
47	Sustainable use of water resources in Europe and the role of integrated modelling of phosphate fluxes. International Journal of Global Environmental Issues, 2010, 10, 172.	0.1	0
48	Auswirkung von Bodenbedeckungsszenarien auf den Wasserhaushalt im Elbeeinzugsgebiet. , 2003, , 341-352.		0