

Roland Barthel

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

1,068
citations

19
h-index

32
g-index

57
ext. papers

1,222
ext. citations

3.7
avg, IF

4.86
L-index

#	Paper	IF	Citations
55	Groundwater and Surface Water Interaction at the Regional-scale – A Review with Focus on Regional Integrated Models. <i>Water Resources Management</i> , 2016 , 30, 1-32	3.7	166
54	A review of contamination of surface-, ground-, and drinking water in Sweden by perfluoroalkyl and polyfluoroalkyl substances (PFASs). <i>Ambio</i> , 2017 , 46, 335-346	6.5	105
53	Multiscale evaluation of the Standardized Precipitation Index as a groundwater drought indicator. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 1117-1131	5.5	89
52	An integrated modelling framework for simulating regional-scale actor responses to global change in the water domain. <i>Environmental Modelling and Software</i> , 2008 , 23, 1095-1121	5.2	80
51	Integrated Modeling of Global Change Impacts on Agriculture and Groundwater Resources. <i>Water Resources Management</i> , 2012 , 26, 1929-1951	3.7	54
50	Combination of soil-water balance models and water-table fluctuation methods for evaluation and improvement of groundwater recharge calculations. <i>Hydrogeology Journal</i> , 2011 , 19, 1487-1502	3.1	44
49	Using the Multiactor-Approach in GLOWA-Danube to Simulate Decisions for the Water Supply Sector Under Conditions of Global Climate Change. <i>Water Resources Management</i> , 2010 , 24, 239-275	3.7	41
48	Development of a regional model for integrated management of water resources at the basin scale. <i>Physics and Chemistry of the Earth</i> , 2008 , 33, 175-182	3	34
47	Integrated regional modelling and scenario development to evaluate future water demand under global change conditions. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2011 , 16, 477-498	3.9	32
46	Interdisciplinary Collaboration between Natural and Social Sciences - Status and Trends Exemplified in Groundwater Research. <i>PLoS ONE</i> , 2017 , 12, e0170754	3.7	30
45	What can we learn from long-term groundwater data to improve climate change impact studies?. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 3861-3875	5.5	27
44	HESS Opinions "Integration of groundwater and surface water research: an interdisciplinary problem?". <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 2615-2628	5.5	26
43	Large-scale water resources management within the framework of GLOWA-Danube. Part A: The groundwater model. <i>Physics and Chemistry of the Earth</i> , 2005 , 30, 372-382	3	26
42	Integrated assessment of groundwater resources in the Ouhoué basin, Benin, West Africa. <i>Physics and Chemistry of the Earth</i> , 2009 , 34, 236-250	3	25
41	Aspects of choosing appropriate concepts for modelling groundwater resources in regional integrated water resources management – Examples from the Neckar (Germany) and Ouhoué catchment (Benin). <i>Physics and Chemistry of the Earth</i> , 2008 , 33, 92-114	3	24
40	Index-Based Characterization and Quantification of Groundwater Dynamics. <i>Water Resources Research</i> , 2019 , 55, 5575-5592	5.4	20
39	An inter-comparison of similarity-based methods for organisation and classification of groundwater hydrographs. <i>Journal of Hydrology</i> , 2018 , 559, 222-237	6	20

38	Linking scientific disciplines: Hydrology and social sciences. <i>Journal of Hydrology</i> , 2017 , 550, 441-452	6	19
37	An indicator approach to assessing and predicting the quantitative state of groundwater bodies on the regional scale with a special focus on the impacts of climate change. <i>Hydrogeology Journal</i> , 2011 , 19, 525-546	3.1	19
36	Large-scale water resources management within the framework of GLOWA-Danube—the water supply model. <i>Physics and Chemistry of the Earth</i> , 2005 , 30, 383-388	3	19
35	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
34	Linking the physical and the socio-economic compartments of an integrated water and land use management model on a river basin scale using an object-oriented water supply model. <i>Physics and Chemistry of the Earth</i> , 2005 , 30, 389-397	3	17
33	Common problematic aspects of coupling hydrological models with groundwater flow models on the river catchment scale. <i>Advances in Geosciences</i> , 9 , 63-71		16
32	Interdisciplinary and participatory approaches: the key to effective groundwater management. <i>Hydrogeology Journal</i> , 2017 , 25, 1923-1926	3.1	14
31	A call for more fundamental science in regional hydrogeology. <i>Hydrogeology Journal</i> , 2014 , 22, 507-510	3.1	14
30	Modeling ground water flow in alluvial mountainous catchments on a watershed scale. <i>Ground Water</i> , 2008 , 46, 695-705	2.4	13
29	Comparative hydrogeology –reference analysis of groundwater dynamics from neighbouring observation wells. <i>Hydrological Sciences Journal</i> , 2020 , 65, 1685-1706	3.5	9
28	Global change impacts on the Upper Danube Catchment (Central Europe): a study of participatory modeling. <i>Regional Environmental Change</i> , 2016 , 16, 1595-1611	4.3	8
27	Conceptualization and implementation of a regional groundwater model for the Neckar catchment in the framework of an integrated regional model. <i>Advances in Geosciences</i> , 5 , 105-111		8
26	Multiscale evaluation of the standardized precipitation index as a groundwater drought indicator		6
25	Folgen des Globalen Wandels für das Grundwasser in Süddeutschland –Teil 1: Naturräumliche Aspekte. <i>Grundwasser</i> , 2011 , 16, 247-257	1.1	5
24	Folgen des Globalen Wandels für das Grundwasser in Süddeutschland –Teil 2: Sozioökonomische Aspekte. <i>Grundwasser</i> , 2011 , 16, 259-268	1.1	5
23	Physiographic and Climatic Controls on Regional Groundwater Dynamics. <i>Water Resources Research</i> , 2020 , 56, e2019WR026545	5.4	4
22	Integration of water balance models in RIVERTWIN. <i>Advances in Geosciences</i> , 9 , 85-91		3
21	Marrying Hydrological Modelling and Integrated Assessment for the needs of Water Resource Management. <i>Proceedings of the International Association of Hydrological Sciences</i> , 364 , 351-356		3

20	Similarity-based approaches in hydrogeology: proposal of a new concept for data-scarce groundwater resource characterization and prediction. <i>Hydrogeology Journal</i> , 2021 , 29, 1693	3.1	3
19	Hydroclimate changes over Sweden in the twentieth and twenty-first centuries: a millennium perspective. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2021 , 103, 103-131	1.1	3
18	Recent trends in hydroclimate and groundwater levels in a region with seasonal frost cover. <i>Journal of Hydrology</i> , 2021 , 602, 126732	6	3
17	Using multi-objective optimisation to integrate alpine regions in groundwater flow models. <i>Advances in Geosciences</i> ,5, 19-23		2
16	Preface "Integration of hydrological models on different spatial and temporal scales". <i>Advances in Geosciences</i> ,9, 1-1		2
15	Storage cascade vs. MODFLOW for the modelling of groundwater flow in the context of the calibration of a hydrological model in the Ammer catchment. <i>Advances in Geosciences</i> ,9, 101-108		2
14	What can we learn from long-term groundwater data to improve climate change impact studies?		2
13	Data on Quantity and Quality of Groundwater 2016 , 177-184		2
12	Current understanding of groundwater recharge and groundwater drought in Sweden compared to countries with similar geology and climate. <i>Geografiska Annaler, Series A: Physical Geography</i> ,1-23	1.1	2
11	Editor's Message: How much interdisciplinary collaboration between the natural and social sciences is there in groundwater research?. <i>Hydrogeology Journal</i> , 2017 , 25, 1229-1231	3.1	1
10	Extraction of Water for Public Drinking Water Supply 2016 , 165-170		1
9	Groundwater Contour Maps for the Alluvial Aquifers of the Upper Danube Basin 2016 , 207-213		1
8	DeepActor Models in DANUBIA 2016 , 29-36		1
7	Systematic visual analysis of groundwater hydrographs: potential benefits and challenges. <i>Hydrogeology Journal</i> ,1	3.1	0
6	Estimating the Change in Groundwater Quality Resulting from Changes to Land Use and Groundwater Recharge 2016 , 601-607		
5	Integrative hydrologic modeling techniques for sustainable water management regarding Global Environmental Changes in the Upper Danube river basin 2004 , 239-253		
4	Hydrogeology I A Consistent Basin-Wide Representation of the Major Aquifers in the Upper Danube Basin 2016 , 125-131		
3	Changes to the Quantitative Status of Groundwater and the Water Supply 2016 , 561-567		

2 Total Extraction and Total Water Supply per Community **2016**, 215-220

1 Modelling the Effects of Global Change on Drinking Water Supply: The DeepWaterSupply Decision Model **2016**, 221-227