

# Roland Barthel

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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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	Similarity-based approaches in hydrogeology: proposal of a new concept for data-scarce groundwater resource characterization and prediction. <i>Hydrogeology Journal</i> , <b>2021</b> , 29, 1693	3.1	3
54	Hydroclimate changes over Sweden in the twentieth and twenty-first centuries: a millennium perspective. <i>Geografiska Annaler, Series A: Physical Geography</i> , <b>2021</b> , 103, 103-131	1.1	3
53	Recent trends in hydroclimate and groundwater levels in a region with seasonal frost cover. <i>Journal of Hydrology</i> , <b>2021</b> , 602, 126732	6	3
52	Comparative hydrogeology – reference analysis of groundwater dynamics from neighbouring observation wells. <i>Hydrological Sciences Journal</i> , <b>2020</b> , 65, 1685-1706	3.5	9
51	Changes in seasonality of groundwater level fluctuations in a temperate-cold climate transition zone. <i>Journal of Hydrology X</i> , <b>2020</b> , 8, 100062	4.6	18
50	Physiographic and Climatic Controls on Regional Groundwater Dynamics. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR026545	5.4	4
49	Index-Based Characterization and Quantification of Groundwater Dynamics. <i>Water Resources Research</i> , <b>2019</b> , 55, 5575-5592	5.4	20
48	An inter-comparison of similarity-based methods for organisation and classification of groundwater hydrographs. <i>Journal of Hydrology</i> , <b>2018</b> , 559, 222-237	6	20
47	Linking scientific disciplines: Hydrology and social sciences. <i>Journal of Hydrology</i> , <b>2017</b> , 550, 441-452	6	19
46	A review of contamination of surface-, ground-, and drinking water in Sweden by perfluoroalkyl and polyfluoroalkyl substances (PFASs). <i>Ambio</i> , <b>2017</b> , 46, 335-346	6.5	105
45	Interdisciplinary Collaboration between Natural and Social Sciences - Status and Trends Exemplified in Groundwater Research. <i>PLoS ONE</i> , <b>2017</b> , 12, e0170754	3.7	30
44	Editorial Message: How much interdisciplinary collaboration between the natural and social sciences is there in groundwater research?. <i>Hydrogeology Journal</i> , <b>2017</b> , 25, 1229-1231	3.1	1
43	Interdisciplinary and participatory approaches: the key to effective groundwater management. <i>Hydrogeology Journal</i> , <b>2017</b> , 25, 1923-1926	3.1	14
42	Estimating the Change in Groundwater Quality Resulting from Changes to Land Use and Groundwater Recharge <b>2016</b> , 601-607		
41	Global change impacts on the Upper Danube Catchment (Central Europe): a study of participatory modeling. <i>Regional Environmental Change</i> , <b>2016</b> , 16, 1595-1611	4.3	8
40	Extraction of Water for Public Drinking Water Supply <b>2016</b> , 165-170		1
39	Data on Quantity and Quality of Groundwater <b>2016</b> , 177-184		2

38	Groundwater Contour Maps for the Alluvial Aquifers of the Upper Danube Basin <b>2016</b> , 207-213		1
37	DeepActor Models in DANUBIA <b>2016</b> , 29-36		1
36	Hydrogeology I A Consistent Basin-Wide Representation of the Major Aquifers in the Upper Danube Basin <b>2016</b> , 125-131		
35	Changes to the Quantitative Status of Groundwater and the Water Supply <b>2016</b> , 561-567		
34	Total Extraction and Total Water Supply per Community <b>2016</b> , 215-220		
33	Modelling the Effects of Global Change on Drinking Water Supply: The DeepWaterSupply Decision Model <b>2016</b> , 221-227		
32	Multiscale evaluation of the Standardized Precipitation Index as a groundwater drought indicator. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 1117-1131	5.5	89
31	Groundwater and Surface Water Interaction at the Regional-scale I A Review with Focus on Regional Integrated Models. <i>Water Resources Management</i> , <b>2016</b> , 30, 1-32	3.7	166
30	HESS Opinions &quot;Integration of groundwater and surface water research: an interdisciplinary problem?&quot;. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 2615-2628	5.5	26
29	A call for more fundamental science in regional hydrogeology. <i>Hydrogeology Journal</i> , <b>2014</b> , 22, 507-510	3.1	14
28	Integrated Modeling of Global Change Impacts on Agriculture and Groundwater Resources. <i>Water Resources Management</i> , <b>2012</b> , 26, 1929-1951	3.7	54
27	What can we learn from long-term groundwater data to improve climate change impact studies?. <i>Hydrology and Earth System Sciences</i> , <b>2011</b> , 15, 3861-3875	5.5	27
26	Integrated regional modelling and scenario development to evaluate future water demand under global change conditions. <i>Mitigation and Adaptation Strategies for Global Change</i> , <b>2011</b> , 16, 477-498	3.9	32
25	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> , <b>2011</b> , 19, 525-546	3.1	19
24	Combination of soil-water balance models and water-table fluctuation methods for evaluation and improvement of groundwater recharge calculations. <i>Hydrogeology Journal</i> , <b>2011</b> , 19, 1487-1502	3.1	44
23	Folgen des Globalen Wandels ffdas Grundwasser in Sddeutschland ITeil 1: Naturrmmliche Aspekte. <i>Grundwasser</i> , <b>2011</b> , 16, 247-257	1.1	5
22	Folgen des Globalen Wandels ffdas Grundwasser in Sddeutschland ITeil 2: Soziokonomische Aspekte. <i>Grundwasser</i> , <b>2011</b> , 16, 259-268	1.1	5
21	Using the Multiactor-Approach in Głowa-Danube to Simulate Decisions for the Water Supply Sector Under Conditions of Global Climate Change. <i>Water Resources Management</i> , <b>2010</b> , 24, 239-275	3.7	41

20	Integrated assessment of groundwater resources in the Ouhoué basin, Benin, West Africa. <i>Physics and Chemistry of the Earth</i> , <b>2009</b> , 34, 236-250	3	25
19	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> , <b>2008</b> , 33, 92-114	3	24
18	Development of a regional model for integrated management of water resources at the basin scale. <i>Physics and Chemistry of the Earth</i> , <b>2008</b> , 33, 175-182	3	34
17	An integrated modelling framework for simulating regional-scale actor responses to global change in the water domain. <i>Environmental Modelling and Software</i> , <b>2008</b> , 23, 1095-1121	5.2	80
16	Modeling ground water flow in alluvial mountainous catchments on a watershed scale. <i>Ground Water</i> , <b>2008</b> , 46, 695-705	2.4	13
15	Large-scale water resources management within the framework of GLOWA-Danube. Part A: The groundwater model. <i>Physics and Chemistry of the Earth</i> , <b>2005</b> , 30, 372-382	3	26
14	Large-scale water resources management within the framework of GLOWA-Danube—the water supply model. <i>Physics and Chemistry of the Earth</i> , <b>2005</b> , 30, 383-388	3	19
13	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> , <b>2005</b> , 30, 389-397	3	17
12	Integrative hydrologic modeling techniques for sustainable water management regarding Global Environmental Changes in the Upper Danube river basin <b>2004</b> , 239-253		
11	Systematic visual analysis of groundwater hydrographs: potential benefits and challenges. <i>Hydrogeology Journal</i> , 1	3.1	0
10	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
9	Using multi-objective optimisation to integrate alpine regions in groundwater flow models. <i>Advances in Geosciences</i> , 5, 19-23		2
8	Preface "Integration of hydrological models on different spatial and temporal scales"; <i>Advances in Geosciences</i> , 9, 1-1		2
7	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
6	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
5	Integration of water balance models in RIVERTWIN. <i>Advances in Geosciences</i> , 9, 85-91		3
4	Multiscale evaluation of the standardized precipitation index as a groundwater drought indicator		6
3	What can we learn from long-term groundwater data to improve climate change impact studies?		2

- 2      Marrying Hydrological Modelling and Integrated Assessment for the needs of Water Resource Management. *Proceedings of the International Association of Hydrological Sciences*,364, 351-356      3
- 1      Current understanding of groundwater recharge and groundwater drought in Sweden compared to countries with similar geology and climate. *Geografiska Annaler, Series A: Physical Geography*,1-23      1.1      2