

Okke Batelaan

List of Publications by Year in descending order

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173
papers

7,016
citations

61984

43
h-index

71685

76
g-index

205
all docs

205
docs citations

205
times ranked

7890
citing authors

#	ARTICLE	IF	CITATIONS
1	Groundwater quality modeling: On the analogy between integrative PSO and MRFO mathematical and machine learning models. <i>Environmental Quality Management</i> , 2022, 31, 241-251.	1.9	8
2	Cooperation in hydrogeophysics: Enhancing practitioners and institutions' groundwater assessment capacity, Vientiane Plain, Lao PDR. <i>Geophysics</i> , 2022, 87, WA49-WA63.	2.6	0
3	Prediction of effluent arsenic concentration of wastewater treatment plants using machine learning and kriging-based models. <i>Environmental Science and Pollution Research</i> , 2022, 29, 20556-20570.	5.3	11
4	Determination of rainy season onset and cessation based on a flexible driest period. <i>Theoretical and Applied Climatology</i> , 2022, 148, 91-104.	2.8	5
5	Groundwater recharge over the past 100 years: Regional spatiotemporal assessment and climate change impact over the Saguenay–St. Jean region, Canada. <i>Hydrological Processes</i> , 2022, 36, .	2.6	9
6	Streamflow Prediction in Highly Regulated, Transboundary Watersheds Using Multi-Basin Modeling and Remote Sensing Imagery. <i>Water Resources Research</i> , 2022, 58, .	4.2	10
7	A new approach to quantification of groundwater resource stress. <i>Journal of Hydrology: Regional Studies</i> , 2022, 42, 101161.	2.4	2
8	Cooling power of sea breezes and its inland penetration in dry-summer Adelaide, Australia. <i>Atmospheric Research</i> , 2021, 250, 105409.	4.1	5
9	Transport and retention of graphene oxide nanoparticles in sandy and carbonaceous aquifer sediments: Effect of physicochemical factors and natural biofilm. <i>Journal of Environmental Management</i> , 2021, 278, 111419.	7.8	7
10	Rainy season drought severity trend analysis of the Indonesian maritime continent. <i>International Journal of Climatology</i> , 2021, 41, E2194.	3.5	6
11	Fresh groundwater lens dynamics of a small bedrock island in the tropics, Northern Australia. <i>Journal of Hydrology</i> , 2021, 595, 125942.	5.4	7
12	Seesaw Terrestrial Wetting and Drying Between Eastern and Western Australia. <i>Earth's Future</i> , 2021, 9, e2020EF001893.	6.3	4
13	The First Potentiometric Map. <i>Ground Water</i> , 2021, 59, 772-779.	1.3	3
14	Ensemble machine learning paradigms in hydrology: A review. <i>Journal of Hydrology</i> , 2021, 598, 126266.	5.4	212
15	A transdisciplinary engagement with Australian Aboriginal water and the hydrology of a small bedrock island. <i>Hydrological Sciences Journal</i> , 2021, 66, 1845-1856.	2.6	5
16	Spatial and temporal variation in rainy season droughts in the Indonesian Maritime Continent. <i>Journal of Hydrology</i> , 2021, 603, 126999.	5.4	4
17	Review of Hydrogeology: Groundwater Science and Engineering by Alain Dassargues CRC Press, Boca Raton, FL; 2018; ISBN 9781498744003; 472 pp.; \$99.95.. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, 07519007.	1.9	1
18	Spatial and temporal recharge estimation of the basement complex in Nigeria, West Africa. <i>Journal of Hydrology: Regional Studies</i> , 2020, 27, 100658.	2.4	13

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19	Combined physical, chemical and biological clogging of managed aquifer recharge and the effect of biofilm on virus transport behavior: A column study. <i>Journal of Water Process Engineering</i> , 2020, 33, 101115.	5.6	10
20	Mapping catchment-scale unmonitored groundwater abstractions: Approaches based on soft data. <i>Journal of Hydrology: Regional Studies</i> , 2020, 30, 100695.	2.4	5
21	A Systematic Approach to Hydrogeological Conceptual Model Testing, Combining Remote Sensing and Geophysical Data. <i>Water Resources Research</i> , 2020, 56, e2020WR027578.	4.2	14
22	Analytical and Numerical Groundwater Flow Solutions for the FEMME-Modeling Environment. <i>Hydrology</i> , 2020, 7, 27.	3.0	10
23	Effect of bacteria and virus on transport and retention of graphene oxide nanoparticles in natural limestone sediments. <i>Chemosphere</i> , 2020, 248, 125929.	8.2	14
24	A Numerical Stream Transport Modeling Approach Including Multiple Conceptualizations of Hyporheic Exchange and Spatial Variability to Assess Contaminant Removal. <i>Water Resources Research</i> , 2020, 56, e2019WR024987.	4.2	11
25	Role of biofilm on virus inactivation in limestone aquifers: implications for managed aquifer recharge. <i>Journal of Environmental Health Science & Engineering</i> , 2020, 18, 21-34.	3.0	1
26	Identifying recharge under subtle ephemeral features in a flat-lying semi-arid region using a combined geophysical approach. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4353-4368.	4.9	7
27	Global Soil Moisture–Air Temperature Coupling Based on GRACE–Derived Terrestrial Water Storage. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7786-7796.	3.3	3
28	Hydrogeological Bayesian Hypothesis Testing through Trans-Dimensional Sampling of a Stochastic Water Balance Model. <i>Water (Switzerland)</i> , 2019, 11, 1463.	2.7	9
29	Sea breeze cooling capacity and its influencing factors in a coastal city. <i>Building and Environment</i> , 2019, 166, 106408.	6.9	28
30	Spatiotemporal Dynamics of the Active Perirheic Zone in a Natural Wetland Floodplain. <i>Water Resources Research</i> , 2019, 55, 9544-9562.	4.2	20
31	What Triggers Streamflow for Intermittent Rivers and Ephemeral Streams in Low-Gradient Catchments in Mediterranean Climates. <i>Water Resources Research</i> , 2019, 55, 9926-9946.	4.2	43
32	Is the Hyporheic Zone Relevant beyond the Scientific Community?. <i>Water (Switzerland)</i> , 2019, 11, 2230.	2.7	113
33	A New Retrieval Algorithm for Soil Moisture Index from Thermal Infrared Sensor On-Board Geostationary Satellites over Europe and Africa and Its Validation. <i>Remote Sensing</i> , 2019, 11, 1968.	4.0	12
34	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	2.6	474
35	Geophysics used to help find good quality groundwater in the Vientiane Plain, Lao PDR. <i>ASEG Extended Abstracts</i> , 2019, 2019, 1-3.	0.1	0
36	Hydrogeological conceptual model building and testing: A review. <i>Journal of Hydrology</i> , 2019, 569, 310-329.	5.4	97

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37	Response of vegetation cover to climate variability in protected and grazed arid rangelands of South Australia. <i>Journal of Arid Environments</i> , 2019, 161, 64-71.	2.4	11
38	Case Study Kleine Nete: Observation Error and Uncertainty. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018, , 75-86.	0.4	0
39	The Water Retention Index: Using land use planning to manage water resources in Europe. <i>Sustainable Development</i> , 2018, 26, 122-131.	12.5	17
40	Flux dynamics at the groundwater-surface water interface in a tropical catchment. <i>Limnologica</i> , 2018, 68, 36-45.	1.5	9
41	Dissolved Si export: Impact of increased water fluxes through soil. <i>Geoderma</i> , 2018, 312, 151-158.	5.1	1
42	Uncertainty of groundwater recharge estimated from a water and energy balance model. <i>Journal of Hydrology</i> , 2018, 561, 1081-1093.	5.4	36
43	Physical water scarcity metrics for monitoring progress towards SDG target 6.4: An evaluation of indicator 6.4.2 "Level of water stress". <i>Science of the Total Environment</i> , 2018, 613-614, 218-232.	8.0	223
44	Delineation of spatial-temporal patterns of groundwater/surface-water interaction along a river reach (Aa River, Belgium) with transient thermal modeling. <i>Hydrogeology Journal</i> , 2018, 26, 819-835.	2.1	16
45	Hyporheic Exchange Controls Fate of Trace Organic Compounds in an Urban Stream. <i>Environmental Science & Technology</i> , 2018, 52, 12285-12294.	10.0	60
46	Wetlands in flux: looking for the drivers in a central European case. <i>Wetlands Ecology and Management</i> , 2018, 26, 849-863.	1.5	17
47	Comparison of MODIS and SWAT evapotranspiration over a complex terrain at different spatial scales. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2775-2794.	4.9	42
48	Using hydraulic head, chloride and electrical conductivity data to distinguish between mountain-front and mountain-block recharge to basin aquifers. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1629-1648.	4.9	46
49	Active heat pulse sensing of 3-D-flow fields in streambeds. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1917-1929.	4.9	21
50	Introduction: Setting the Scene. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018, , 1-14.	0.4	0
51	The Zone-Integrated Double Constraint Method. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018, , 87-98.	0.4	0
52	Foundations of Forward and Inverse Groundwater Flow Models. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018, , 15-33.	0.4	1
53	Time Dependency. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018, , 57-74.	0.4	0
54	Geophysics to enhance agricultural productivity and livelihoods of smallholder farmers through improved groundwater management of the Vientiane Plain, Lao PDR. , 2018, , .		0

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55	A distributed monthly water balance model: formulation and application on Black Volta Basin. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	56
56	Spatial and temporal variability of groundwater recharge in Geba basin, Northern Ethiopia. <i>Journal of African Earth Sciences</i> , 2017, 134, 198-212.	2.0	21
57	Groundwater residence time and aquifer recharge in multilayered, semi-confined and faulted aquifer systems using environmental tracers. <i>Journal of Hydrology</i> , 2017, 546, 150-165.	5.4	47
58	Trajectory analysis of land use and land cover maps to improve spatial-temporal patterns, and impact assessment on groundwater recharge. <i>Journal of Hydrology</i> , 2017, 554, 558-569.	5.4	45
59	Estimation of GRACE water storage components by temporal decomposition. <i>Journal of Hydrology</i> , 2017, 552, 341-350.	5.4	46
60	Spatial-Temporal Simulation of LAI on Basis of Rainfall and Growing Degree Days. <i>Remote Sensing</i> , 2017, 9, 1207.	4.0	3
61	Improved DisTrad for Downscaling Thermal MODIS Imagery over Urban Areas. <i>Remote Sensing</i> , 2017, 9, 1243.	4.0	42
62	Model-based classification of CPT data and automated lithostratigraphic mapping for high-resolution characterization of a heterogeneous sedimentary aquifer. <i>PLoS ONE</i> , 2017, 12, e0176656.	2.5	8
63	Large-scale vegetation responses to terrestrial moisture storage changes. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4469-4478.	4.9	42
64	GIS MODULE FOR THE ESTIMATION OF THE HILLSLOPE TORRENTIAL PEAK FLOW. <i>Environmental Engineering and Management Journal</i> , 2017, 16, 1137-1144.	0.6	3
65	Impact assessment of climate change on a coastal groundwater system, Central Vietnam. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	7
66	Groundwater flow systems theory: research challenges beyond the specified-head top boundary condition. <i>Hydrogeology Journal</i> , 2016, 24, 1087-1090.	2.1	30
67	Reactive transport modeling of redox processes to assess Fe(OH) ₃ precipitation around aquifer thermal energy storage wells in phreatic aquifers. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	11
68	Hydrodynamics of porous formations: Simple indices for calibration and identification of spatio-temporal scales. <i>Marine and Petroleum Geology</i> , 2016, 78, 690-700.	3.3	11
69	Rainfall-runoff modelling using a spatially distributed electrical circuit analogue. <i>Natural Hazards</i> , 2016, 82, 1279-1300.	3.4	3
70	Hydrogeological controls of water table-land surface interactions. <i>Geophysical Research Letters</i> , 2016, 43, 9653-9661.	4.0	19
71	LPMLE3: A novel approach to study water flow in streambeds using heat as a tracer. <i>Water Resources Research</i> , 2016, 52, 6596-6610.	4.2	33
72	Ecohydrology and Its Relation to Integrated Groundwater Management. , 2016, , 297-312.		2

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73	Contrasting responses of water use efficiency to drought across global terrestrial ecosystems. <i>Scientific Reports</i> , 2016, 6, 23284.	3.3	227
74	From streambed temperature measurements to spatial-temporal flux quantification: using the LPML method to study groundwater-surface water interaction. <i>Hydrological Processes</i> , 2016, 30, 203-216.	2.6	31
75	Hydrological connectivity of alluvial Andean valleys: a groundwater/surface-water interaction case study in Ecuador. <i>Hydrogeology Journal</i> , 2016, 24, 955-969.	2.1	18
76	Determining groundwater-surface water exchange from temperature-time series: Combining a local polynomial method with a maximum likelihood estimator. <i>Water Resources Research</i> , 2015, 51, 922-939.	4.2	43
77	Comparative analysis of baseflow characteristics of two Andean catchments, Ecuador. <i>Hydrological Processes</i> , 2015, 29, 3051-3064.	2.6	17
78	Estimation of Surface Soil Moisture from Thermal Infrared Remote Sensing Using an Improved Trapezoid Method. <i>Remote Sensing</i> , 2015, 7, 8250-8270.	4.0	50
79	Spatial sensitivity analysis of snow cover data in a distributed rainfall-runoff model. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 1887-1904.	4.9	16
80	Scenarios for shale gas development and their related land use impacts in the Baltic Basin, Northern Poland. <i>Energy Policy</i> , 2015, 84, 80-95.	8.8	27
81	Factors controlling Si export from soils: A soil column approach. <i>Catena</i> , 2015, 133, 85-96.	5.0	12
82	Spatial distribution of groundwater recharge and base flow: Assessment of controlling factors. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 349-368.	2.4	103
83	Hydrological modelling of urbanized catchments: A review and future directions. <i>Journal of Hydrology</i> , 2015, 529, 62-81.	5.4	293
84	Skill of remote sensing snow products for distributed runoff prediction. <i>Journal of Hydrology</i> , 2015, 524, 718-732.	5.4	22
85	Impact of Shale Gas Development on Water Resources: A Case Study in Northern Poland. <i>Environmental Management</i> , 2015, 55, 1285-1299.	2.7	54
86	Application of multiple-point geostatistics to simulate the effect of small-scale aquifer heterogeneity on the efficiency of aquifer thermal energy storage. <i>Hydrogeology Journal</i> , 2015, 23, 971-981.	2.1	18
87	Dissolved phosphorus transport from soil to surface water in catchments with different land use. <i>Ambio</i> , 2015, 44, 228-240.	5.5	40
88	Comparison of three dual-source remote sensing evapotranspiration models during the MUSOEXE12 campaign: Revisit of model physics. <i>Water Resources Research</i> , 2015, 51, 3145-3165.	4.2	97
89	Multi-model approach to assess the impact of climate change on runoff. <i>Journal of Hydrology</i> , 2015, 529, 1601-1616.	5.4	75
90	Simple Hydraulic Conductivity Estimation by the Kalman Filtered Double Constraint Method. <i>Ground Water</i> , 2015, 53, 401-413.	1.3	12

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91	A Wavelet-Enhanced Inversion Method for Water Quality Retrieval From High Spectral Resolution Data for Complex Waters. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 869-882.	6.3	5
92	<i>Hydrology: An International and Interdisciplinary Scientific Open Access Journal</i> . <i>Hydrology</i> , 2014, 1, 112-113.	3.0	0
93	Mapping current and future European public water withdrawals and consumption. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 407-416.	4.9	20
94	Influence of Aquifer Thermal Energy Storage on groundwater quality: A review illustrated by seven case studies from Belgium. <i>Journal of Hydrology: Regional Studies</i> , 2014, 2, 20-34.	2.4	50
95	Spatial variability of chloride deposition in a vegetated coastal area: Implications for groundwater recharge estimation. <i>Journal of Hydrology</i> , 2014, 519, 1177-1191.	5.4	45
96	Groundwater-surface water interaction in Lake Nasser, Southern Egypt. <i>Hydrological Processes</i> , 2014, 28, 414-430.	2.6	28
97	Using Multiple-Point Geostatistics for Tracer Test Modeling in a Clay-Drift Environment with Spatially Variable Conductivity and Sorption Coefficient. <i>Mathematical Geosciences</i> , 2014, 46, 519-537.	2.4	8
98	A Wavelet Approach for Estimating Chlorophyll-A From Inland Waters With Reflectance Spectroscopy. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 89-93.	3.1	14
99	Intercomparison of five lumped and distributed models for catchment runoff and extreme flow simulation. <i>Journal of Hydrology</i> , 2014, 511, 335-349.	5.4	78
100	High-resolution saturated hydraulic conductivity logging of borehole cores using air permeability measurements. <i>Hydrogeology Journal</i> , 2014, 22, 1345-1358.	2.1	10
101	Science-policy interfacing on the issue of groundwater and groundwater-dependent ecosystems in Europe: implications for research and policy. <i>Wiley Interdisciplinary Reviews: Water</i> , 2014, 1, 561-571.	6.5	3
102	The usefulness of outcrop analogue air permeameter measurements for analyzing aquifer heterogeneity: quantifying outcrop hydraulic conductivity and its spatial variability. <i>Hydrological Processes</i> , 2014, 28, 5176-5188.	2.6	9
103	Evapotranspiration of bush encroachments on a temperate mire meadow – A nonlinear function of landscape composition and groundwater flow. <i>Ecological Engineering</i> , 2014, 73, 598-609.	3.6	29
104	Intercomparison of hydrological model structures and calibration approaches in climate scenario impact projections. <i>Journal of Hydrology</i> , 2014, 519, 743-755.	5.4	61
105	Three-dimensional hydrostratigraphical modelling to support evaluation of recharge and saltwater intrusion in a coastal groundwater system in Vietnam. <i>Hydrogeology Journal</i> , 2014, 22, 1749-1762.	2.1	24
106	Combining flux estimation techniques to improve characterization of groundwater-surface-water interaction in the Zenne River, Belgium. <i>Hydrogeology Journal</i> , 2014, 22, 1657-1668.	2.1	14
107	Multi-scale aquifer characterization and groundwater flow model parameterization using direct push technologies. <i>Environmental Earth Sciences</i> , 2014, 72, 1303-1324.	2.7	11
108	Downscaling of thermal images over urban areas using the land surface temperature-impervious percentage relationship. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2013, 23, 95-108.	2.8	66

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109	A System-based Paradigm of Drought Analysis for Operational Management. <i>Water Resources Management</i> , 2013, 27, 5281-5297.	3.9	112
110	Assessing urbanisation effects on rainfall-runoff using a remote sensing supported modelling strategy. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2013, 21, 92-102.	2.8	54
111	Transport of Dissolved Si from Soil to River: A Conceptual Mechanistic Model. <i>Silicon</i> , 2013, 5, 115-133.	3.3	17
112	Mapping impervious surface change from remote sensing for hydrological modeling. <i>Journal of Hydrology</i> , 2013, 485, 84-95.	5.4	98
113	Climate change impact on river flows and catchment hydrology: a comparison of two spatially distributed models. <i>Hydrological Processes</i> , 2013, 27, 3649-3662.	2.6	53
114	Predicted impacts of land use change on groundwater recharge of the upper Berg catchment, South Africa. <i>Water S A</i> , 2013, 39, .	0.4	10
115	Assessing Groundwater Storage Changes Using Remote Sensing-Based Evapotranspiration and Precipitation at a Large Semiarid Basin Scale. <i>Journal of Hydrometeorology</i> , 2013, 14, 1733-1753.	1.9	21
116	The usefulness of outcrop-analogue air-permeameter measurements for analysing aquifer heterogeneity: testing outcrop hydrogeological parameters with independent borehole data. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 5155-5166.	4.9	8
117	Satellite-based analysis of recent trends in the ecohydrology of a semi-arid region. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3779-3794.	4.9	15
118	Use of land-cover fractions derived from MESMA for urban water balance calculation. , 2012, , .		3
119	Evaluation of the DisTrad thermal sharpening methodology for urban areas. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 19, 163-172.	2.8	100
120	Integration of soil moisture in SEBS for improving evapotranspiration estimation under water stress conditions. <i>Remote Sensing of Environment</i> , 2012, 121, 261-274.	11.0	117
121	Impact of remotely sensed land-cover proportions on urban runoff prediction. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 16, 54-65.	2.8	24
122	Impact of Urban Land-Cover Classification on Groundwater Recharge Uncertainty. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 1859-1867.	4.9	21
123	An ecohydrological sketch of climate change impacts on water and natural ecosystems for the Netherlands: bridging the gap between science and society. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3945-3957.	4.9	23
124	Spatio-temporal impact of climate change on the groundwater system. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 1517-1531.	4.9	67
125	A hierarchical approach on groundwater-surface water interaction in wetlands along the upper Biebrza River, Poland. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2329-2346.	4.9	43
126	Estimation of Hydraulic Conductivity and Its Uncertainty from Grain-Size Data Using GLUE and Artificial Neural Networks. <i>Mathematical Geosciences</i> , 2012, 44, 739-763.	2.4	39

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127	Improving evapotranspiration in a land surface model using biophysical variables derived from MSG/SEVIRI satellite. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2567-2583.	4.9	40
128	Application of the WetSpa distributed hydrological model for catchment with significant contribution of organic soil. Upper Biebrza case study. <i>Annals of Warsaw University of Life Sciences, Land Reclamation</i> , 2011, 43, .	0.2	10
129	A simple thermal mapping method for seasonal spatial patterns of groundwaterâ€“surface water interaction. <i>Journal of Hydrology</i> , 2011, 397, 93-104.	5.4	100
130	Improving surfaceâ€“subsurface water budgeting using high resolution satellite imagery applied on a brownfield. <i>Science of the Total Environment</i> , 2011, 409, 800-809.	8.0	16
131	Uma abordagem multi-an�lise com base em detec�o remota para mapear recursos h�dricos subterr�neos no Vale c�rsico de Meo Vac, Vietnam. <i>Hydrogeology Journal</i> , 2011, 19, 275-287.	2.1	7
132	Flood mapping with remote sensing and hydrochemistry: A new method to distinguish the origin of flood water during floods. <i>Ecological Engineering</i> , 2011, 37, 1334-1349.	3.6	74
133	Groundwater Modelling and Hydrological System Analysis of Wetlands in the Middle Biebrza Basin. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2011, , 89-109.	0.2	10
134	Application of a multimodel approach to account for conceptual model and scenario uncertainties in groundwater modelling. <i>Journal of Hydrology</i> , 2010, 394, 416-435.	5.4	82
135	Assessment of conceptual model uncertainty for the regional aquifer Pampa del Tamarugal â€“ North Chile. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 171-192.	4.9	60
136	Historical land use change has lowered terrestrial silica mobilization. <i>Nature Communications</i> , 2010, 1, 129.	12.8	189
137	Bayesian data fusion for water table interpolation: Incorporating a hydrogeological conceptual model in kriging. <i>Water Resources Research</i> , 2010, 46, .	4.2	28
138	On the value of conditioning data to reduce conceptual model uncertainty in groundwater modeling. <i>Water Resources Research</i> , 2010, 46, .	4.2	41
139	Coupling urban expansion models and hydrological models: How important are spatial patterns?. <i>Land Use Policy</i> , 2010, 27, 965-975.	5.6	52
140	Estimating the effects of climate change on groundwater recharge and baseflow in the upper Ssezibwa catchment, Uganda. <i>Hydrological Sciences Journal</i> , 2009, 54, 713-726.	2.6	77
141	Throughflow as a determining factor for habitat contiguity in a near-natural fen. <i>Journal of Hydrology</i> , 2009, 379, 30-40.	5.4	36
142	Transient or steady�state? Using vertical temperature profiles to quantify groundwaterâ€“surface water exchange. <i>Hydrological Processes</i> , 2009, 23, 2165-2177.	2.6	120
143	Comparison of Two Mathematical Models for 3D Groundwater Flow: Block-Centered Heads and Edge-Based Stream Functions. <i>Transport in Porous Media</i> , 2009, 79, 469-485.	2.6	4
144	Benefit and Implementation of Groundwater Protection Zoning in South Africa. <i>Water Resources Management</i> , 2009, 23, 2895-2911.	3.9	20

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145	Assessing and predicting biodiversity in a floodplain ecosystem: Assimilation of net primary production derived from imaging spectrometer data into a dynamic vegetation model. <i>Remote Sensing of Environment</i> , 2008, 112, 2118-2130.	11.0	28
146	Determining discharges from the Table Mountain Group (TMG) aquifer to wetlands in the Southern Cape, South Africa. <i>Hydrobiologia</i> , 2008, 607, 175-186.	2.0	13
147	Improving Distributed Runoff Prediction in Urbanized Catchments with Remote Sensing based Estimates of Impervious Surface Cover. <i>Sensors</i> , 2008, 8, 910-932.	3.8	82
148	Predicting land-use change and its impact on the groundwater system of the Kleine Nete catchment, Belgium. <i>Hydrology and Earth System Sciences</i> , 2008, 12, 1369-1385.	4.9	92
149	Remote Sensing and Wetland Ecology: a South African Case Study. <i>Sensors</i> , 2008, 8, 3542-3556.	3.8	47
150	Improved distributed runoff modelling of urbanised catchments by integration of multi-resolution remote sensing. , 2007, , .		7
151	Measuring and modeling urban dynamics: impact on quality of life and hydrology. , 2007, , .		3
152	GIS-based recharge estimation by coupling surface and subsurface water balances. <i>Journal of Hydrology</i> , 2007, 337, 337-355.	5.4	209
153	Integrating Remote Sensing and Wetland Ecology: a Case Study on South African Wetlands. , 2007, , .		3
154	Effects of climate change on the groundwater system in the Grote-Nete catchment, Belgium. <i>Hydrogeology Journal</i> , 2007, 15, 891-901.	2.1	146
155	Large-scale GIS-based hydrogeological modeling of Flanders: a tool for groundwater management. <i>Environmental Geology</i> , 2006, 50, 1201-1209.	1.2	21
156	Eco-Hydrological Functioning of the Biebrza Wetlands: Lessons for the Conservation and Restoration of Deteriorated Wetlands. <i>Ecological Studies</i> , 2006, , 285-310.	1.2	34
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