

Kristine Walraevens

List of Publications by Year in descending order

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86
papers

1,858
citations

279487

23
h-index

301761

39
g-index

89
all docs

89
docs citations

89
times ranked

1692
citing authors

#	ARTICLE	IF	CITATIONS
1	Groundwater Overexploitation and Seawater Intrusion in Coastal Areas of Arid and Semi-Arid Regions. <i>Water (Switzerland)</i> , 2018, 10, 143.	1.2	200
2	Impact of soil and water conservation measures on catchment hydrological response—a case in north Ethiopia. <i>Hydrological Processes</i> , 2010, 24, 1880-1895.	1.1	167
3	Application of a spatially distributed water balance model for assessing surface water and groundwater resources in the Geba basin, Tigray, Ethiopia. <i>Journal of Hydrology</i> , 2013, 499, 110-123.	2.3	87
4	Saltwater intrusion and nitrate pollution in the coastal aquifer of Dar es Salaam, Tanzania. <i>Environmental Earth Sciences</i> , 2013, 70, 1091-1111.	1.3	86
5	Chemical characterization of the Neogene Aquifer, Belgium. <i>Hydrogeology Journal</i> , 2006, 14, 1556-1568.	0.9	81
6	Investigating seawater intrusion due to groundwater pumping with schematic model simulations: The example of the Dar es Salaam coastal aquifer in Tanzania. <i>Journal of African Earth Sciences</i> , 2014, 96, 71-78.	0.9	55
7	Evaluation and Application of Multi-Source Satellite Rainfall Product CHIRPS to Assess Spatio-Temporal Rainfall Variability on Data-Sparse Western Margins of Ethiopian Highlands. <i>Remote Sensing</i> , 2019, 11, 2688.	1.8	51
8	Reaction transport modelling of a freshening aquifer (Tertiary Ledo-Paniselian Aquifer,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (Fla	1.4	48
9	A new correction model for 14C ages in aquifers with complex geochemistry — Application to the Neogene Aquifer, Belgium. <i>Applied Geochemistry</i> , 2009, 24, 768-776.	1.4	44
10	Groundwater recharge and flow in a small mountain catchment in northern Ethiopia. <i>Hydrological Sciences Journal</i> , 2009, 54, 739-753.	1.2	43
11	Groundwater exploitation and hydraulic parameter estimation for a Quaternary aquifer in Dar-es-Salaam Tanzania. <i>Journal of African Earth Sciences</i> , 2009, 55, 134-146.	0.9	43
12	Natural background levels and threshold values for groundwater in fluvial Pleistocene and Tertiary marine aquifers in Flanders, Belgium. <i>Environmental Geology</i> , 2009, 57, 1155-1168.	1.2	41
13	Water leakage investigation of micro-dam reservoirs in Mesozoic sedimentary sequences in Northern Ethiopia. <i>Journal of African Earth Sciences</i> , 2013, 79, 98-110.	0.9	41
14	Overview of micro-dam reservoirs (MDR) in Tigray (northern Ethiopia): Challenges and benefits. <i>Journal of African Earth Sciences</i> , 2016, 123, 210-222.	0.9	38
15	Using stable water isotopes to identify spatio-temporal controls on groundwater recharge in two contrasting East African aquifer systems. <i>Hydrological Sciences Journal</i> , 2018, 63, 862-877.	1.2	37
16	Sources of salinity and urban pollution in the Quaternary sand aquifers of Dar es Salaam, Tanzania. <i>Journal of African Earth Sciences</i> , 2015, 102, 149-165.	0.9	31
17	Water Balance Components for Sustainability Assessment of Groundwater-Dependent Agriculture: Example of the Mendae Plain (Tigray, Ethiopia). <i>Land Degradation and Development</i> , 2015, 26, 725-736.	1.8	30
18	A 40‰ record of temperature and permafrost conditions in northwestern Europe from noble gases in the Ledo-Paniselian Aquifer (Belgium). <i>Journal of Quaternary Science</i> , 2010, 25, 1038-1044.	1.1	29

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19	Hydrochemistry and source of high fluoride in groundwater of the Nairobi area, Kenya / Hydrochimie et origine des fortes concentrations en fluorure dans l'eau souterraine de la région de Nairobi, au Kenya. <i>Hydrological Sciences Journal</i> , 2008, 53, 1230-1240.	1.2	28
20	Understanding the hydrogeochemical evolution of groundwater in Precambrian basement aquifers: A case study of Bugesera region in Burundi. <i>Journal of Geochemical Exploration</i> , 2018, 188, 24-42.	1.5	28
21	Modeling approaches and strategies for data-scarce aquifers: example of the Dar es Salaam aquifer in Tanzania. <i>Hydrogeology Journal</i> , 2013, 21, 341-356.	0.9	26
22	Hydrochemistry in coastal aquifer of southwest Bangladesh: origin of salinity. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	26
23	Groundwater salinization and freshening processes in coastal aquifers from southwest Bangladesh. <i>Science of the Total Environment</i> , 2021, 779, 146339.	3.9	25
24	Groundwater recharge and water table response to changing conditions for aquifers at different physiography: The case of a semi-humid river catchment, northwestern highlands of Ethiopia. <i>Science of the Total Environment</i> , 2020, 748, 142243.	3.9	24
25	Groundwater exploitation and recharge rate estimation of a quaternary sand aquifer in Dar-es-Salaam area, Tanzania. <i>Environmental Earth Sciences</i> , 2011, 63, 559-569.	1.3	23
26	Naturally occurring potentially toxic elements in groundwater from the volcanic landscape around Mount Meru, Arusha, Tanzania and their potential health hazard. <i>Science of the Total Environment</i> , 2022, 807, 150487.	3.9	22
27	Hydrologic interconnection between the volcanic aquifer and springs, Lake Tana basin on the Upper Blue Nile. <i>Journal of African Earth Sciences</i> , 2016, 121, 154-167.	0.9	21
28	Regional groundwater flow modeling of the Geba basin, northern Ethiopia. <i>Hydrogeology Journal</i> , 2017, 25, 639-655.	0.9	21
29	Spatial and temporal variability of groundwater recharge in Geba basin, Northern Ethiopia. <i>Journal of African Earth Sciences</i> , 2017, 134, 198-212.	0.9	21
30	Hydrological Foundation as a Basis for a Holistic Environmental Flow Assessment of Tropical Highland Rivers in Ethiopia. <i>Water (Switzerland)</i> , 2020, 12, 547.	1.2	21
31	Geological and geotechnical constraints for urban planning and natural environment protection: a case study from Mekelle City, Northern Ethiopia. <i>Environmental Earth Sciences</i> , 2013, 69, 783-798.	1.3	20
32	Understanding spatial patterns of soils for sustainable agriculture in northern Ethiopia's tropical mountains. <i>PLoS ONE</i> , 2019, 14, e0224041.	1.1	19
33	Combining resistivity and frequency domain electromagnetic methods to investigate submarine groundwater discharge in the littoral zone. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3539-3555.	1.9	17
34	Persistence and changes in the peripheral Beles basin of Ethiopia. <i>Regional Environmental Change</i> , 2018, 18, 2089-2104.	1.4	16
35	Geophysical exploration of an old dumpsite in the perspective of enhanced landfill mining in Kermt area, Belgium. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 55-67.	1.6	16
36	Recharge-Discharge Relations of Groundwater in Volcanic Terrain of Semi-Humid Tropical Highlands of Ethiopia: The Case of Infranz Springs, in the Upper Blue Nile. <i>Water (Switzerland)</i> , 2020, 12, 853.	1.2	15

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37	Geological challenges in constructing the proposed Geba dam site, northern Ethiopia. <i>Bulletin of Engineering Geology and the Environment</i> , 2013, 72, 339-352.	1.6	14
38	An integrated approach for detection and delineation of leakage path from Micro-Dam Reservoir (MDR): a case study from Arato MDR, Northern Ethiopia. <i>Bulletin of Engineering Geology and the Environment</i> , 2016, 75, 193-210.	1.6	13
39	Impacts of Large-Scale Groundwater Exploitation Based on Long-Term Evolution of Hydraulic Heads in Dhaka City, Bangladesh. <i>Water (Switzerland)</i> , 2021, 13, 1357.	1.2	13
40	Hydrochemical Characterisation of High-Fluoride Groundwater and Development of a Conceptual Groundwater Flow Model Using a Combined Hydrogeological and Hydrochemical Approach on an Active Volcano: Mount Meru, Northern Tanzania. <i>Water (Switzerland)</i> , 2021, 13, 2159.	1.2	13
41	Pumping test interpretation by combination of Latin hypercube parameter sampling and analytical models. <i>Computers and Geosciences</i> , 2009, 35, 2065-2073.	2.0	12
42	Deducing transmissivity from specific capacity in the heterogeneous upper aquifer system of Jifarah Plain, NW-Libya. <i>Journal of African Earth Sciences</i> , 2013, 85, 12-21.	0.9	12
43	Poor understanding of the hydrogeological structure is a main cause of hand-dug wells failure in developing countries: A case study of a Precambrian basement aquifer in Bugesera region (Burundi). <i>Journal of African Earth Sciences</i> , 2016, 121, 180-199.	0.9	12
44	Geological and geophysical investigation of water leakage from two micro-dam reservoirs: Implications for future site selection, northern Ethiopia. <i>Journal of African Earth Sciences</i> , 2017, 129, 82-93.	0.9	12
45	Redox zonation and organic matter oxidation in palaeogroundwater of glacial origin from the Baltic Artesian Basin. <i>Chemical Geology</i> , 2018, 488, 149-161.	1.4	12
46	Quantification of Recharge and Runoff from Rainfall Using New GIS Tool: Example of the Gaza Strip Aquifer. <i>Water (Switzerland)</i> , 2019, 11, 84.	1.2	12
47	Hydrogeology and groundwater flow in a basalt-capped Mesozoic sedimentary series of the Ethiopian highlands. <i>Hydrogeology Journal</i> , 2011, 19, 641-650.	0.9	11
48	Recent Research Results on Groundwater Resources and Saltwater Intrusion in a Changing Environment. <i>Water (Switzerland)</i> , 2019, 11, 1118.	1.2	11
49	Quantification of Groundwater Exploitation and Assessment of Water Quality Risk Perception in the Dar Es Salaam Quaternary Aquifer, Tanzania. <i>Water (Switzerland)</i> , 2019, 11, 2552.	1.2	9
50	Effect of Groundwater Extraction and Artificial Recharge on the Geophysical Footprints of Fresh Submarine Groundwater Discharge in the Western Belgian Coastal Area. <i>Water (Switzerland)</i> , 2022, 14, 1040.	1.2	9
51	Drought impacts on long-term hydrodynamic behavior of groundwater in the tertiary–quaternary aquifer system of Shahrekord Plain, Iran. <i>Environmental Earth Sciences</i> , 2013, 70, 927-942.	1.3	8
52	Groundwater flow and chemistry of the oases of Al Wahat, NE Libya. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	8
53	Degradation of groundwater quality in coastal aquifer of Sabratah area, NW Libya. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	8
54	Evolution of runoff and groundwater recharge in the Gaza Strip over the last four decades. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	8

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55	Dating of glacial palaeogroundwater in the Ordovician-Cambrian aquifer system, northern Baltic Artesian Basin. <i>Applied Geochemistry</i> , 2019, 102, 64-76.	1.4	8
56	Modelling spatial relationships between land cover change and its drivers in the Afro-Alpine belt of Mount Guna (Ethiopia). <i>Land Degradation and Development</i> , 2021, 32, 3946-3961.	1.8	8
57	Groundwater dynamics converted to a groundwater classification as a tool for nature development programs in the dunes. <i>Journal of Hydrology</i> , 2013, 499, 236-246.	2.3	7
58	Estimation of depth to fresh-salt water interface and its implications for sustainable groundwater resource management: a case study of the Coastal strip of Dar es Salaam, Tanzania. <i>Environmental Earth Sciences</i> , 2015, 73, 6639-6662.	1.3	6
59	Water Resources Studies in Headwaters of the Blue Nile Basin: A Review with Emphasis on Lake Water Balance and Hydrogeological Characterization. <i>Water (Switzerland)</i> , 2021, 13, 1469.	1.2	6
60	The Radius of Influence Myth. <i>Water (Switzerland)</i> , 2022, 14, 149.	1.2	6
61	A palaeoclimatic record from the Ledo-Paniselian Aquifer in Belgium – Indications for groundwater recharge and flow in a periglacial environment. <i>Quaternary International</i> , 2020, 547, 127-144.	0.7	5
62	Geophysical Delineation of Freshwater-Saline Water Interfaces in Coastal Area of Southwest Bangladesh. <i>Water (Switzerland)</i> , 2021, 13, 2527.	1.2	5
63	Hydrogeological and hydrogeochemical investigation of the coastal area of Jifarah Plain, NW Libya. <i>Afrika Focus</i> , 2011, 24, .	0.1	5
64	Identification of low fluoride areas using conceptual groundwater flow model and hydrogeochemical system analysis in the aquifer system on the flanks of an active volcano: Mount Meru, Northern Tanzania. <i>Science of the Total Environment</i> , 2022, 814, 152682.	3.9	5
65	Different Ground Subsidence Contributions Revealed by Integrated Discussion of Sentinel-1 Datasets, Well Discharge, Stratigraphical and Geomorphological Data: The Case of the Gioia Tauro Coastal Plain (Southern Italy). <i>Sustainability</i> , 2022, 14, 2926.	1.6	5
66	Hydrochemical characterization and groundwater potential of the deep aquifer system in southwest coastal region of Bangladesh. <i>Journal of Asian Earth Sciences</i> , 2022, , 105271.	1.0	5
67	Spatial and temporal simulation of groundwater recharge and cross-validation with point estimations in volcanic aquifers with variable topography. <i>Journal of Hydrology: Regional Studies</i> , 2022, 42, 101142.	1.0	5
68	Effects of multi-annual climate variability on the hydrodynamic evolution (1833 to present) in a shallow aquifer system in northern Belgium. <i>Hydrological Sciences Journal</i> , 2010, 55, 763-779.	1.2	4
69	Quantification of water table dynamics as a reference for impact assessment of ecohydrological enhancement measures in a dune area in Belgium. <i>Environmental Earth Sciences</i> , 2015, 73, 2223-2240.	1.3	4
70	Sinkholes Due to Groundwater Withdrawal in Tazerbo Wellfield, <sc>SE</sc> Libya. <i>Ground Water</i> , 2017, 55, 593-601.	0.7	4
71	Occurrences of evaporitic salts in Bugesera region (Burundi) and relation to hydrogeochemical evolution of groundwater. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	4
72	Tectonic link between the Neoproterozoic dextral shear fabrics and Cenozoic extension structures of the Mekelle basin, Northern Ethiopia. <i>International Journal of Earth Sciences</i> , 2020, 109, 1957-1974.	0.9	4

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73	Application of multi-hydrochemical indices for spatial groundwater quality assessment: Ziway Lake Basin of the Ethiopian Rift Valley. <i>Environmental Earth Sciences</i> , 2022, 81, 1.	1.3	4
74	Hydrogeochemical investigation of groundwater in Jericho area in the Jordan Valley, West Bank, Palestine. <i>Journal of African Earth Sciences</i> , 2013, 82, 15-32.	0.9	3
75	Quantification of Submarine Groundwater Discharge in the Gaza Strip. <i>Water (Switzerland)</i> , 2018, 10, 1818.	1.2	3
76	Identifying the Major Hydrogeochemical Factors Governing Groundwater Chemistry in the Coastal Aquifers of Southwest Bangladesh Using Statistical Analysis. <i>Hydrology</i> , 2022, 9, 20.	1.3	3
77	Soil and Irrigation Water Management: Farmer's Practice, Insight, and Major Constraints in Upper Blue Nile Basin, Ethiopia. <i>Agriculture (Switzerland)</i> , 2021, 11, 383.	1.4	2
78	Groundwater inflow in rivers as a controlling factor to surface water nitrate concentrations and impact of groundwater age distribution on response times for remediation strategies. <i>Journal of Contaminant Hydrology</i> , 2021, 241, 103820.	1.6	2
79	Topography Impacts Hydrology in the Sub-Humid Ethiopian Highlands. <i>Water (Switzerland)</i> , 2022, 14, 196.	1.2	2
80	Hydrochemical characteristics and flow of the Nubian Aquifer System in Tazerbo Wellfield, SE Libya. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	1
81	Exploring the hydrological effects of normal faults at the boundary of the Roer Valley Graben in Belgium using a catchment-scale groundwater flow model. <i>Hydrogeology Journal</i> , 0, , 1.	0.9	1
82	The origin of high sulfate concentrations and hydrochemistry of the Upper Miocene-Pliocene-Quaternary aquifer complex of Jifarah Plain, NW Libya. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	0
83	Hydrodynamical and hydrochemical groundwater controls on abiotic environmental gradients in a nature reserve in Flanders (Belgium). <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	0
84	Understanding the mechanisms of groundwater recharge and flow in periglacial environments: New insights from the Ledo-Paniselian aquifer in Belgium. <i>Journal of Contaminant Hydrology</i> , 2021, 241, 103819.	1.6	0
85	Hydrogeological and hydrogeochemical investigation of the coastal area of Jifarah Plain, NW Libya. <i>Afrika Focus</i> , 2011, 24, 95-99.	0.1	0
86	Hydrogeochemical processes and groundwater quality of over-exploited Dupi Tila aquifer in Dhaka city, Bangladesh. <i>Environmental Science and Pollution Research</i> , 0, , .	2.7	0