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List of Publications by Year
in descending order

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Version: 2024-02-01

58 papers	2,040 citations	257357 24 h-index	265120 42 g-index
73 all docs	73 docs citations	73 times ranked	1706 citing authors

#	Article	IF	Citations
1	Effects of climate change on coastal groundwater systems: A modeling study in the Netherlands. Water Resources Research, 2010, 46, .	1.7	262
2	Improving fresh groundwater supplyâ€"problems and solutions. Ocean and Coastal Management, 2001, 44, 429-449.	2.0	188
3	Saltwater intrusion in the unconfined coastal aquifer of Ravenna (Italy): A numerical model. Journal of Hydrology, 2007, 340, 91-104.	2.3	145
4	Title is missing!. , 2001, 43, 137-158.		129
5	Paleo-modeling of coastal saltwater intrusion during the Holocene: an application to the Netherlands. Hydrology and Earth System Sciences, 2014, 18, 3891-3905.	1.9	86
6	An operational, multi-scale, multi-model system for consensus-based, integrated water management and policy analysis: The Netherlands Hydrological Instrument. Environmental Modelling and Software, 2014, 59, 98-108.	1.9	86
7	Upward groundwater flow in boils as the dominant mechanism of salinization in deep polders, The Netherlands. Journal of Hydrology, 2010, 394, 494-506.	2.3	75
8	Adaptation to uncertain sea-level rise; how uncertainty in Antarctic mass-loss impacts the coastal adaptation strategy of the Netherlands. Environmental Research Letters, 2020, 15, 034007.	2.2	72
9	Shallow rainwater lenses in deltaic areas with saline seepage. Hydrology and Earth System Sciences, 2011, 15, 3659-3678.	1.9	67
10	Common irrigation drivers of freshwater salinisation in river basins worldwide. Nature Communications, 2021, 12, 4232.	5.8	63
11	Uncertainty estimation of endâ€member mixing using generalized likelihood uncertainty estimation (GLUE), applied in a lowland catchment. Water Resources Research, 2013, 49, 4792-4806.	1.7	54
12	The rotating movement of three immiscible fluidsâ€"a benchmark problem. Journal of Hydrology, 2004, 287, 270-278.	2.3	47
13	Monitoring and simulation of salinity changes in response to tide and storm surges in a sandy coastal aquifer system. Water Resources Research, 2017, 53, 6487-6509.	1.7	45
14	Large-scale, probabilistic salinity mapping using airborne electromagnetics for groundwater management in Zeeland, the Netherlands. Environmental Research Letters, 2018, 13, 084011.	2.2	44
15	Modelling climate change effects on a Dutch coastal groundwater system using airborne electromagnetic measurements. Hydrology and Earth System Sciences, 2012, 16, 4499-4516.	1.9	39
16	Rainwater lens dynamics and mixing between infiltrating rainwater and upward saline groundwater seepage beneath a tile-drained agricultural field. Journal of Hydrology, 2013, 501, 133-145.	2.3	39
17	Natural saltwater upconing by preferential groundwater discharge through boils. Journal of Hydrology, 2013, 490, 74-87.	2.3	39
18	Saltwater intrusion in 3D large-scale aquifers: a dutch case. Physics and Chemistry of the Earth, 2001, 26, 337-344.	0.3	32

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19	On the origins of hypersaline groundwater in the Nile Delta aquifer. Journal of Hydrology, 2018, 560, 301-317.	2.3	31
20	Impacts of Sea Level Rise and Groundwater Extraction Scenarios on Fresh Groundwater Resources in the Nile Delta Governorates, Egypt. Water (Switzerland), 2018, 10, 1690.	1.2	31
21	Estimating the depth of fresh and brackish groundwater in a predominantly saline region using geophysical and hydrological methods, Zeeland, the Netherlands. Near Surface Geophysics, 2009, 7, 401-412.	0.6	29
22	A three-dimensional palaeohydrogeological reconstruction of the groundwater salinity distribution in the Nile Delta Aquifer. Hydrology and Earth System Sciences, 2019, 23, 5175-5198.	1.9	28
23	Geological Heterogeneity of Coastal Unconsolidated Groundwater Systems Worldwide and Its Influence on Offshore Fresh Groundwater Occurrence. Frontiers in Earth Science, 2020, 7, .	0.8	28
24	Impact of Sea Level Rise in the Netherlands. Theory and Applications of Transport in Porous Media, 1999, , 507-530.	0.4	27
25	Integrated assessment of variable densityâ€“viscosity groundwater flow for a high temperature mono-well aquifer thermal energy storage (HT-ATES) system in a geothermal reservoir. Geothermics, 2015, 55, 58-68.	1.5	27
26	Estimating the thickness of unconsolidated coastal aquifers along the global coastline. Earth System Science Data, 2018, 10, 1591-1603.	3.7	22
27	Celebrating 50Âyears of SWIMs (Salt Water Intrusion Meetings). Hydrogeology Journal, 2018, 26, 1767-1770.	0.9	20
28	Assessing the Freshâ€“Saline Groundwater Distribution in the Nile Delta Aquifer Using a 3D Variable-Density Groundwater Flow Model. Water (Switzerland), 2019, 11, 1946.	1.2	20
29	Paleo-hydrogeological reconstruction of the fresh-saline groundwater distribution in the Vietnamese Mekong Delta since the late Pleistocene. Journal of Hydrology: Regional Studies, 2019, 23, 100594.	1.0	20
30	Impact of coastal forcing and groundwater recharge on the growth of a fresh groundwater lens in a mega-scale beach nourishment. Hydrology and Earth System Sciences, 2018, 22, 1065-1080.	1.9	17
31	Quantifying Geophysical Inversion Uncertainty Using Airborne Frequency Domain Electromagnetic Dataâ€”Applied at the Province of Zeeland, the Netherlands. Water Resources Research, 2018, 54, 8420-8441.	1.7	15
32	Fresh groundwater resources in a large sand replenishment. Hydrology and Earth System Sciences, 2016, 20, 3149-3166.	1.9	14
33	Saltwater Upconing Due to Cyclic Pumping by Horizontal Wells in Freshwater Lenses. Ground Water, 2016, 54, 521-531.	0.7	13
34	Fresh Water Lens Persistence and Root Zone Salinization Hazard Under Temperate Climate. Water Resources Management, 2017, 31, 689-702.	1.9	13
35	Determining the Relation between Groundwater Flow Velocities and Measured Temperature Differences Using Active Heating-Distributed Temperature Sensing. Water (Switzerland), 2019, 11, 1619.	1.2	13
36	Regional scale impact of tidal forcing on groundwater flow in unconfined coastal aquifers. Journal of Hydrology, 2014, 517, 269-283.	2.3	11

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37	Increasing a freshwater lens below a creek ridge using a controlled artificial recharge and drainage system: a case study in the Netherlands. Hydrogeology Journal, 2015, 23, 1415-1430.	0.9	11
38	Global sampling to assess the value of diverse observations in conditioning a realâ€world groundwater flow and transport model. Water Resources Research, 2016, 52, 1652-1672.	1.7	11
39	Factors Determining the Natural Freshâ€Salt Groundwater Distribution in Deltas. Water Resources Research, 2021, 57, e2020WR027290.	1.7	11
40	Fast calculation of groundwater exfiltration salinity in a lowland catchment using a lumped celerity/velocity approach. Environmental Modelling and Software, 2017, 96, 323-334.	1.9	9
41	Optimal salinity and water level control of water courses using Model Predictive Control. Environmental Modelling and Software, 2019, 112, 36-45.	1.9	9
42	A risk-based groundwater modeling framework in coastal aquifers: a case study on Long Island, New York, USA. Hydrogeology Journal, 2020, 28, 2519-2541.	0.9	9
43	Water supply network model for sustainable industrial resource use a case study of Zeeuws-Vlaanderen in the Netherlands. Water Resources and Industry, 2020, 24, 100131.	1.9	9
44	WaterROUTE: A model for cost optimization of industrial water supply networks when using water resources with varying salinity. Water Research, 2021, 202, 117390.	5.3	9
45	A Greedy Algorithm for Optimal Sensor Placement to Estimate Salinity in Polder Networks. Water (Switzerland), 2019, 11, 1101.	1.2	8
46	Distributed memory parallel computing of three-dimensional variable-density groundwater flow and salt transport. Advances in Water Resources, 2021, 154, 103976.	1.7	8
47	Offshore fresh groundwater in coastal unconsolidated sediment systems as a potential fresh water source in the 21st century. Environmental Research Letters, 2022, 17, 014021.	2.2	8
48	Joint estimation of groundwater salinity and hydrogeological parameters using variable-density groundwater flow, salt transport modelling and airborne electromagnetic surveys. Advances in Water Resources, 2022, 160, 104118.	1.7	6
49	Global potential for the growth of fresh groundwater resources with large beach nourishments. Scientific Reports, 2019, 9, 12451.	1.6	5
50	The three-dimensional groundwater salinity distribution and fresh groundwater volumes in the Mekong Delta, Vietnam, inferred from geostatistical analyses. Earth System Science Data, 2021, 13, 3297-3319.	3.7	5
51	Nonlinear model predictive control of salinity and water level in polder networks: Case study of Lissertocht catchment. Agricultural Water Management, 2022, 264, 107502.	2.4	5
52	Lowâ€Resolution Modeling of Dense Drainage Networks in Confining Layers. Ground Water, 2015, 53, 771-781.	0.7	4
53	Model Predictive Control of Salinity in a Polder Ditch Under High Saline Groundwater Exfiltration Conditions: A Test Case. IFAC-PapersOnLine, 2017, 50, 3160-3164.	0.5	2
54	A practical quantification of error sources in regional-scale airborne groundwater salinity mapping. Environmental Research Letters, 2020, 15, 074002.	2.2	2

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55	Development of a freshwater lens in the inverted Broad Fourteens Basin, Netherlands offshore. Journal of Geochemical Exploration, 2003, 78-79, 321-325.	1.5	1
56	Polder Flushing: Model Predictive Control of Flushing Operations to Effective and Real Time Control of Salinity in Polders. Procedia Engineering, 2016, 154, 94-98.	1.2	1
57	Groundwater salinity mapping of the Belgian coastal zone to improve local freshwater storage availability. E3S Web of Conferences, 2018, 54, 00040.	0.2	1
58	Groundwater Salinity Monitoring Using a New Fiber Optic Sensor. Ground Water Monitoring and Remediation, 2022, 42, 123-124.	0.6	1