

Gualbert H P Oude Essink

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	Joint estimation of groundwater salinity and hydrogeological parameters using variable-density groundwater flow, salt transport modelling and airborne electromagnetic surveys. <i>Advances in Water Resources</i> , 2022, 160, 104118.	1.7	6
2	Nonlinear model predictive control of salinity and water level in polder networks: Case study of Lissertocht catchment. <i>Agricultural Water Management</i> , 2022, 264, 107502.	2.4	5
3	Offshore fresh groundwater in coastal unconsolidated sediment systems as a potential fresh water source in the 21st century. <i>Environmental Research Letters</i> , 2022, 17, 014021.	2.2	8
4	Groundwater Salinity Monitoring Using a New Fiber Optic Sensor. <i>Ground Water Monitoring and Remediation</i> , 2022, 42, 123-124.	0.6	1
5	Factors Determining the Natural Freshwater-Salt Groundwater Distribution in Deltas. <i>Water Resources Research</i> , 2021, 57, e2020WR027290.	1.7	11
6	The three-dimensional groundwater salinity distribution and fresh groundwater volumes in the Mekong Delta, Vietnam, inferred from geostatistical analyses. <i>Earth System Science Data</i> , 2021, 13, 3297-3319.	3.7	5
7	Common irrigation drivers of freshwater salinisation in river basins worldwide. <i>Nature Communications</i> , 2021, 12, 4232.	5.8	63
8	Distributed memory parallel computing of three-dimensional variable-density groundwater flow and salt transport. <i>Advances in Water Resources</i> , 2021, 154, 103976.	1.7	8
9	WaterROUTE: A model for cost optimization of industrial water supply networks when using water resources with varying salinity. <i>Water Research</i> , 2021, 202, 117390.	5.3	9
10	Adaptation to uncertain sea-level rise; how uncertainty in Antarctic mass-loss impacts the coastal adaptation strategy of the Netherlands. <i>Environmental Research Letters</i> , 2020, 15, 034007.	2.2	72
11	A risk-based groundwater modeling framework in coastal aquifers: a case study on Long Island, New York, USA. <i>Hydrogeology Journal</i> , 2020, 28, 2519-2541.	0.9	9
12	Water supply network model for sustainable industrial resource use a case study of Zeeuws-Vlaanderen in the Netherlands. <i>Water Resources and Industry</i> , 2020, 24, 100131.	1.9	9
13	Geological Heterogeneity of Coastal Unconsolidated Groundwater Systems Worldwide and Its Influence on Offshore Fresh Groundwater Occurrence. <i>Frontiers in Earth Science</i> , 2020, 7, .	0.8	28
14	A practical quantification of error sources in regional-scale airborne groundwater salinity mapping. <i>Environmental Research Letters</i> , 2020, 15, 074002.	2.2	2
15	Determining the Relation between Groundwater Flow Velocities and Measured Temperature Differences Using Active Heating-Distributed Temperature Sensing. <i>Water (Switzerland)</i> , 2019, 11, 1619.	1.2	13
16	Global potential for the growth of fresh groundwater resources with large beach nourishments. <i>Scientific Reports</i> , 2019, 9, 12451.	1.6	5
17	Assessing the Freshwater-Saline Groundwater Distribution in the Nile Delta Aquifer Using a 3D Variable-Density Groundwater Flow Model. <i>Water (Switzerland)</i> , 2019, 11, 1946.	1.2	20
18	A Greedy Algorithm for Optimal Sensor Placement to Estimate Salinity in Polder Networks. <i>Water (Switzerland)</i> , 2019, 11, 1101.	1.2	8

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19	Paleo-hydrogeological reconstruction of the fresh-saline groundwater distribution in the Vietnamese Mekong Delta since the late Pleistocene. <i>Journal of Hydrology: Regional Studies</i> , 2019, 23, 100594.	1.0	20
20	A three-dimensional palaeohydrogeological reconstruction of the groundwater salinity distribution in the Nile Delta Aquifer. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 5175-5198.	1.9	28
21	Optimal salinity and water level control of water courses using Model Predictive Control. <i>Environmental Modelling and Software</i> , 2019, 112, 36-45.	1.9	9
22	On the origins of hypersaline groundwater in the Nile Delta aquifer. <i>Journal of Hydrology</i> , 2018, 560, 301-317.	2.3	31
23	Impacts of Sea Level Rise and Groundwater Extraction Scenarios on Fresh Groundwater Resources in the Nile Delta Governorates, Egypt. <i>Water (Switzerland)</i> , 2018, 10, 1690.	1.2	31
24	Groundwater salinity mapping of the Belgian coastal zone to improve local freshwater storage availability. <i>E3S Web of Conferences</i> , 2018, 54, 00040.	0.2	1
25	Quantifying Geophysical Inversion Uncertainty Using Airborne Frequency Domain Electromagnetic Data Applied at the Province of Zeeland, the Netherlands. <i>Water Resources Research</i> , 2018, 54, 8420-8441.	1.7	15
26	Impact of coastal forcing and groundwater recharge on the growth of a fresh groundwater lens in a mega-scale beach nourishment. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1065-1080.	1.9	17
27	Celebrating 50 Years of SWIMs (Salt Water Intrusion Meetings). <i>Hydrogeology Journal</i> , 2018, 26, 1767-1770.	0.9	20
28	Large-scale, probabilistic salinity mapping using airborne electromagnetics for groundwater management in Zeeland, the Netherlands. <i>Environmental Research Letters</i> , 2018, 13, 084011.	2.2	44
29	Estimating the thickness of unconsolidated coastal aquifers along the global coastline. <i>Earth System Science Data</i> , 2018, 10, 1591-1603.	3.7	22
30	Fresh Water Lens Persistence and Root Zone Salinization Hazard Under Temperate Climate. <i>Water Resources Management</i> , 2017, 31, 689-702.	1.9	13
31	Monitoring and simulation of salinity changes in response to tide and storm surges in a sandy coastal aquifer system. <i>Water Resources Research</i> , 2017, 53, 6487-6509.	1.7	45
32	Model Predictive Control of Salinity in a Polder Ditch Under High Saline Groundwater Exfiltration Conditions: A Test Case. <i>IFAC-PapersOnLine</i> , 2017, 50, 3160-3164.	0.5	2
33	Fast calculation of groundwater exfiltration salinity in a lowland catchment using a lumped celerity/velocity approach. <i>Environmental Modelling and Software</i> , 2017, 96, 323-334.	1.9	9
34	Fresh groundwater resources in a large sand replenishment. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3149-3166.	1.9	14
35	Saltwater Upconing Due to Cyclic Pumping by Horizontal Wells in Freshwater Lenses. <i>Ground Water</i> , 2016, 54, 521-531.	0.7	13
36	Global sampling to assess the value of diverse observations in conditioning a real-world groundwater flow and transport model. <i>Water Resources Research</i> , 2016, 52, 1652-1672.	1.7	11

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37	Polder Flushing: Model Predictive Control of Flushing Operations to Effective and Real Time Control of Salinity in Polders. <i>Procedia Engineering</i> , 2016, 154, 94-98.	1.2	1
38	Low-Resolution Modeling of Dense Drainage Networks in Confining Layers. <i>Ground Water</i> , 2015, 53, 771-781.	0.7	4
39	Integrated assessment of variable density-viscosity groundwater flow for a high temperature mono-well aquifer thermal energy storage (HT-ATES) system in a geothermal reservoir. <i>Geothermics</i> , 2015, 55, 58-68.	1.5	27
40	Increasing a freshwater lens below a creek ridge using a controlled artificial recharge and drainage system: a case study in the Netherlands. <i>Hydrogeology Journal</i> , 2015, 23, 1415-1430.	0.9	11
41	Paleo-modeling of coastal saltwater intrusion during the Holocene: an application to the Netherlands. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3891-3905.	1.9	86
42	An operational, multi-scale, multi-model system for consensus-based, integrated water management and policy analysis: The Netherlands Hydrological Instrument. <i>Environmental Modelling and Software</i> , 2014, 59, 98-108.	1.9	86
43	Regional scale impact of tidal forcing on groundwater flow in unconfined coastal aquifers. <i>Journal of Hydrology</i> , 2014, 517, 269-283.	2.3	11
44	Rainwater lens dynamics and mixing between infiltrating rainwater and upward saline groundwater seepage beneath a tile-drained agricultural field. <i>Journal of Hydrology</i> , 2013, 501, 133-145.	2.3	39
45	Uncertainty estimation of end-member mixing using generalized likelihood uncertainty estimation (GLUE), applied in a lowland catchment. <i>Water Resources Research</i> , 2013, 49, 4792-4806.	1.7	54
46	Natural saltwater upconing by preferential groundwater discharge through boils. <i>Journal of Hydrology</i> , 2013, 490, 74-87.	2.3	39
47	Modelling climate change effects on a Dutch coastal groundwater system using airborne electromagnetic measurements. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4499-4516.	1.9	39
48	Shallow rainwater lenses in deltaic areas with saline seepage. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 3659-3678.	1.9	67
49	Upward groundwater flow in boils as the dominant mechanism of salinization in deep polders, The Netherlands. <i>Journal of Hydrology</i> , 2010, 394, 494-506.	2.3	75
50	Effects of climate change on coastal groundwater systems: A modeling study in the Netherlands. <i>Water Resources Research</i> , 2010, 46, .	1.7	262
51	Estimating the depth of fresh and brackish groundwater in a predominantly saline region using geophysical and hydrological methods, Zeeland, the Netherlands. <i>Near Surface Geophysics</i> , 2009, 7, 401-412.	0.6	29
52	Saltwater intrusion in the unconfined coastal aquifer of Ravenna (Italy): A numerical model. <i>Journal of Hydrology</i> , 2007, 340, 91-104.	2.3	145
53	The rotating movement of three immiscible fluids—a benchmark problem. <i>Journal of Hydrology</i> , 2004, 287, 270-278.	2.3	47
54	Development of a freshwater lens in the inverted Broad Fourteens Basin, Netherlands offshore. <i>Journal of Geochemical Exploration</i> , 2003, 78-79, 321-325.	1.5	1

#	ARTICLE	IF	CITATIONS
55	Improving fresh groundwater supply—problems and solutions. Ocean and Coastal Management, 2001, 44, 429-449.	2.0	188
56	Title is missing!. , 2001, 43, 137-158.		129
57	Saltwater intrusion in 3D large-scale aquifers: a dutch case. Physics and Chemistry of the Earth, 2001, 26, 337-344.	0.3	32
58	Impact of Sea Level Rise in the Netherlands. Theory and Applications of Transport in Porous Media, 1999, , 507-530.	0.4	27