

# Thomas M Missimer

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

3,635  
citations

279701

23  
h-index

138417

58  
g-index

94  
all docs

94  
docs citations

94  
times ranked

4071  
citing authors

#	ARTICLE	IF	CITATIONS
1	Technical review and evaluation of the economics of water desalination: Current and future challenges for better water supply sustainability. <i>Desalination</i> , 2013, 309, 197-207.	4.0	1,098
2	Membrane-based seawater desalination: Present and future prospects. <i>Desalination</i> , 2017, 401, 16-21.	4.0	500
3	Renewable energy-driven innovative energy-efficient desalination technologies. <i>Applied Energy</i> , 2014, 136, 1155-1165.	5.1	240
4	Environmental issues in seawater reverse osmosis desalination: Intakes and outfalls. <i>Desalination</i> , 2018, 434, 198-215.	4.0	214
5	Arid Lands Water Evaluation and Management. <i>Environmental Science and Engineering</i> , 2012, , .	0.1	116
6	Determination of Hydraulic Conductivity from Grain Size Distribution for Different Depositional Environments. <i>Ground Water</i> , 2014, 52, 399-413.	0.7	111
7	Subsurface intakes for seawater reverse osmosis facilities: Capacity limitation, water quality improvement, and economics. <i>Desalination</i> , 2013, 322, 37-51.	4.0	102
8	Natural Background and Anthropogenic Arsenic Enrichment in Florida Soils, Surface Water, and Groundwater: A Review with a Discussion on Public Health Risk. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2278.	1.2	74
9	Combined desalination, water reuse, and aquifer storage and recovery to meet water supply demands in the GCC/MENA region. <i>Desalination and Water Treatment</i> , 2013, 51, 38-43.	1.0	65
10	Restoration of Wadi Aquifers by Artificial Recharge with Treated Waste Water. <i>Ground Water</i> , 2012, 50, 514-527.	0.7	55
11	Natural Radiation in the Rocks, Soils, and Groundwater of Southern Florida with a Discussion on Potential Health Impacts. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1793.	1.2	54
12	Aquifer Storage and Recovery: Recent Hydrogeological Advances and System Performance. <i>Water Environment Research</i> , 2006, 78, 2428-2435.	1.3	53
13	Use of beach galleries as an intake for future seawater desalination facilities in Florida and globally similar areas. <i>Desalination and Water Treatment</i> , 2014, 52, 1-8.	1.0	50
14	SWRO feed water quality improvement using subsurface intakes in Oman, Spain, Turks and Caicos Islands, and Saudi Arabia. <i>Desalination</i> , 2014, 351, 88-100.	4.0	50
15	Estimation of soil salinity in a drip irrigation system by using joint inversion of multicoil electromagnetic induction measurements. <i>Water Resources Research</i> , 2015, 51, 3490-3504.	1.7	42
16	Sustainable renewable energy seawater desalination using combined-cycle solar and geothermal heat sources. <i>Desalination and Water Treatment</i> , 2013, 51, 1161-1170.	1.0	41
17	Diagenesis and porosity preservation in Eocene microporous limestones, South Florida, USA. <i>Sedimentary Geology</i> , 2009, 217, 85-94.	1.0	40
18	Subsurface intake systems: Green choice for improving feed water quality at SWRO desalination plants, Jeddah, Saudi Arabia. <i>Water Research</i> , 2016, 88, 216-224.	5.3	39

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19	Enhancement of wadi recharge using dams coupled with aquifer storage and recovery wells. <i>Environmental Earth Sciences</i> , 2015, 73, 7723-7731.	1.3	36
20	Critical Zone Assessments of an Alluvial Aquifer System Using the Multi-influencing Factor (MIF) and Analytical Hierarchy Process (AHP) Models in Western Iran. <i>Natural Resources Research</i> , 2020, 29, 1163-1191.	2.2	28
21	Changes in feedwater organic matter concentrations based on intake type and pretreatment processes at SWRO facilities, Red Sea, Saudi Arabia. <i>Desalination</i> , 2015, 360, 19-27.	4.0	27
22	Geothermal electricity generation and desalination: an integrated process design to conserve latent heat with operational improvements. <i>Desalination and Water Treatment</i> , 2016, 57, 23110-23118.	1.0	27
23	Vertical migration of municipal wastewater in deep injection well systems, South Florida, USA. <i>Hydrogeology Journal</i> , 2007, 15, 1387-1396.	0.9	24
24	Managed Aquifer Recharge (MAR) Economics for Wastewater Reuse in Low Population Wadi Communities, Kingdom of Saudi Arabia. <i>Water (Switzerland)</i> , 2014, 6, 2322-2338.	1.2	24
25	Economics and Energy Consumption of Brackish Water Reverse Osmosis Desalination: Innovations and Impacts of Feedwater Quality. <i>Membranes</i> , 2021, 11, 616.	1.4	21
26	Method of Relating Grain Size Distribution to Hydraulic Conductivity in Dune Sands to Assist in Assessing Managed Aquifer Recharge Projects: Wadi Khulays Dune Field, Western Saudi Arabia. <i>Water (Switzerland)</i> , 2015, 7, 6411-6426.	1.2	20
27	Self-cleaning beach gallery design for seawater desalination plants. <i>Desalination and Water Treatment</i> , 2010, 13, 88-95.	1.0	19
28	Water crisis: the metropolitan Atlanta, Georgia, regional water supply conflict. <i>Water Policy</i> , 2014, 16, 669-689.	0.7	18
29	Mapping to assess feasibility of using subsurface intakes for SWRO, Red Sea coast of Saudi Arabia. <i>Desalination and Water Treatment</i> , 2014, 52, 2351-2361.	1.0	17
30	Index-based Groundwater Sustainability Assessment in the Socio-Economic Context: a Case Study in the Western Iran. <i>Environmental Management</i> , 2021, 67, 648-666.	1.2	17
31	Strategic Aquifer Storage and Recovery of Desalinated Water to Achieve Water Security in the GCC/MENA Region. <i>International Journal of Environment and Sustainability</i> , 2012, 1, .	0.3	17
32	Aquifer Recharge and Recovery: Groundwater Recharge Systems for Treatment, Storage, and Water Reclamation. <i>Ground Water</i> , 2011, 49, 771-771.	0.7	15
33	Technical feasibility of using gallery intakes for seawater RO facilities, northern Red Sea coast of Saudi Arabia: the King Abdullah Economic City site. <i>Desalination and Water Treatment</i> , 2013, 51, 6472-6481.	1.0	15
34	Seabed gallery intakes: Investigation of the water pretreatment effectiveness of the active layer using a long-term column experiment. <i>Water Research</i> , 2017, 121, 95-108.	5.3	15
35	Hydrogeology, water quality, and microbial assessment of a coastal alluvial aquifer in western Saudi Arabia: potential use of coastal wadi aquifers for desalination water supplies. <i>Hydrogeology Journal</i> , 2014, 22, 1921-1934.	0.9	14
36	Impact of well intake systems on bacterial, algae, and organic carbon reduction in SWRO desalination systems, SAWACO, Jeddah, Saudi Arabia. <i>Desalination and Water Treatment</i> , 2015, 55, 2594-2600.	1.0	14

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37	Aquifer Storage and Recovery Using Saline Aquifers: Hydrogeological Controls and Opportunities. <i>Ground Water</i> , 2020, 58, 9-18.	0.7	13
38	Organic compounds and microbial assessment of a seawater reverse osmosis facility at Tampa Bay Water, USA. <i>Desalination</i> , 2020, 496, 114735.	4.0	13
39	Injection Well Options for Sustainable Disposal of Desalination Concentrate. <i>IDA Journal of Desalination and Water Reuse</i> , 2011, 3, 17-23.	0.4	12
40	Technical feasibility of a seabed gallery system for SWRO facilities at Shoaiba, Saudi Arabia, and regions with similar geology. <i>Desalination and Water Treatment</i> , 2014, 52, 7431-7442.	1.0	12
41	Organic carbon movement through two SWRO facilities from source water to pretreatment to product with relevance to membrane biofouling. <i>Desalination</i> , 2017, 407, 52-60.	4.0	12
42	Coping with future change: Optimal design of flexible water distribution systems. <i>Sustainable Cities and Society</i> , 2020, 61, 102306.	5.1	12
43	Legacy Phosphorus in Lake Okeechobee (Florida, USA) Sediments: A Review and New Perspective. <i>Water (Switzerland)</i> , 2021, 13, 39.	1.2	12
44	Seeking a consensus: water management principles from the monotheistic scriptures. <i>Water Policy</i> , 2015, 17, 984-1002.	0.7	11
45	Late Miocene fluvial sediment transport from the southern Appalachian Mountains to southern Florida: An example of an old mountain belt sediment production surge. <i>Sedimentology</i> , 2017, 64, 1846-1870.	1.6	11
46	Water Resources Assessment and Management in Drylands. <i>Water (Switzerland)</i> , 2016, 8, 239.	1.2	10
47	Climate change and water supply: governance and adaptation planning in Florida. <i>Water Policy</i> , 2021, 23, 521-536.	0.7	10
48	A GIS-expert-based approach for groundwater quality monitoring network design in an alluvial aquifer: a case study and a practical guide. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 684.	1.3	9
49	Enhancing spatial prediction of sinkhole susceptibility by mixed waters geochemistry evaluation: application of ROC and GIS. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	9
50	Aquifer Treatment of Sea Water to Remove Natural Organic Matter Before Desalination. <i>Ground Water</i> , 2017, 55, 316-326.	0.7	8
51	Statistical comparisons of grain size characteristics, hydraulic conductivity, and porosity of barchan desert dunes to coastal dunes. <i>Aeolian Research</i> , 2020, 43, 100576.	1.1	8
52	Advanced coagulation with liquid ferrate as SWRO desalination pretreatment during severe algal bloom. Process performance, environmental impact, and cost analysis. <i>Desalination</i> , 2022, 537, 115864.	4.0	8
53	Dolomitization-induced aquifer heterogeneity: Evidence from the upper Floridan aquifer, southwest Florida. <i>Bulletin of the Geological Society of America</i> , 2002, 114, 419-427.	1.6	7
54	Aquifer Storage and Recovery: Developing Sustainable Water Supplies. <i>IDA Journal of Desalination and Water Reuse</i> , 2010, 2, 74-80.	0.4	7

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55	Seabed gallery intake technical feasibility for SWRO facilities at Shuqaiq, Saudi Arabia. <i>Journal of Applied Water Engineering and Research</i> , 2014, 2, 3-12.	1.0	7
56	Experimental Measurement of Diffusive Extinction Depth and Soil Moisture Gradients in a Dune Sand Aquifer in Western Saudi Arabia: Assessment of Evaporation Loss for Design of an MAR System. <i>Water (Switzerland)</i> , 2015, 7, 6967-6982.	1.2	7
57	Feasibility of using a subsurface intake for SWRO facility, south of Jeddah, Saudi Arabia. <i>Desalination and Water Treatment</i> , 2015, 55, 3527-3537.	1.0	7
58	A Clustered, Decentralized Approach to Urban Water Management. <i>Water (Switzerland)</i> , 2020, 12, 185.	1.2	7
59	Green method of stemming the tide of invasive marine and freshwater organisms by natural filtration of shipping ballast water. <i>Environmental Science and Pollution Research</i> , 2021, 28, 5116-5125.	2.7	7
60	Groundwater quality change impacts on a brackish-water reverse osmosis water treatment plant design: the City of Clearwater, Florida. , 0, 211, 31-44.		7
61	Management of BWRO systems using long-term monitoring of feed water quality to avoid future membrane process failure. <i>Desalination and Water Treatment</i> , 2016, 57, 16209-16219.	1.0	6
62	Evolution of Heterogeneous Mixed Siliciclastic/Carbonate Aquifers Containing Metastable Sediments. <i>Ground Water</i> , 2017, 55, 784-796.	0.7	6
63	Hydraulic Fracturing in Southern Florida: A Critical Analysis of Potential Environmental Impacts. <i>Natural Resources Research</i> , 2020, 29, 3385-3411.	2.2	6
64	Solute Transport Predictive Uncertainty in Alternative Water Supply, Storage, and Treatment Systems. <i>Ground Water</i> , 2016, 54, 627-633.	0.7	5
65	Geomorphological impact of Hurricane Irma on Marco Island, Southwest Florida. <i>Natural Hazards</i> , 2021, 106, 1-17.	1.6	5
66	Unusual calcite stromatolites and pisoids from a landfill leachate collection system. <i>Geology</i> , 2000, 28, 931-934.	2.0	5
67	Impacts of projected changes in feed-water salinity on the City of Cape Coral Florida north brackish-water reverse osmosis desalination plant operation. , 0, 181, 1-16.		5
68	Understanding transparent exopolymer particle occurrence and interaction with algae, bacteria, and the fractions of natural organic matter in the Red Sea: implications for seawater desalination. , 0, 192, 78-96.		5
69	Technical feasibility of a seabed gallery seawater intake at Ras Abu Ali Island, Arabian Gulf, Saudi Arabia. <i>Desalination and Water Treatment</i> , 2015, 55, 3538-3546.	1.0	4
70	Long-Term Managed Aquifer Recharge in a Saline-Water Aquifer as a Critical Component of an Integrated Water Scheme in Southwestern Florida, USA. <i>Water (Switzerland)</i> , 2017, 9, 774.	1.2	4
71	Cumene Contamination in Groundwater: Observed Concentrations, Evaluation of Remediation by Sulfate Enhanced Bioremediation (SEB), and Public Health Issues. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8380.	1.2	4
72	How feedwater characterization changes effect brackish-water reverse osmosis plant operation: the town of Jupiter, Florida. , 0, 227, 1-15.		4

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73	Well Intake Systems for SWRO Systems: Design and Limitations. Environmental Science and Engineering, 2015, , 147-162.	0.1	4
74	Changes in feed water salinity with pumping of a wellfield used to supply a brackish water RO facility at the City of Fort Myers, Florida. , 0, 177, 1-13.		4
75	Long-term pumping-induced groundwater quality changes at a brackish-water desalination facility, Sanibel Island, Florida. , 0, 202, 1-13.		4
76	Groundwater as a feedwater source for membrane treatment plants: Hydrogeologic controls on water quality variation with time. Desalination, 1994, 98, 451-457.	4.0	3
77	Effects of nearshore evaporation rates on the design of seabed gallery intake systems for SWRO facilities located along the Red Sea shoreline of Saudi Arabia. Desalination and Water Treatment, 2016, 57, 22726-22733.	1.0	3
78	Changes in Pumping-Induced Groundwater Quality Used to Supply a Large-Capacity Brackish-Water Desalination Facility, Collier County, Florida: A New Aquifer Conceptual Model. Water (Switzerland), 2021, 13, 1951.	1.2	3
79	Impacts of natural pore-water and offshore aquifer chemistry on the operation and economics of some subsurface intakes types for SWRO plants. , 0, 132, 1-9.		3
80	Simulations of Impacts of Sand and Rock Mining on Florida Coastal Plain Water Resources. Mine Water and the Environment, 2010, 29, 294-300.	0.9	2
81	Improved aquifer characterization and the optimization of the design of brackish groundwater desalination systems. Desalination and Water Treatment, 2011, 31, 190-196.	1.0	2
82	Impacts of Feedwater Quality Change on the Oldest Continuously Operated Brackish-Water Reverse Osmosis Desalination Plant in the United States. Water (Switzerland), 2021, 13, 2654.	1.2	2
83	Feasibility and Design of Seabed Gallery Intake Systems Along the Red Sea Coast of Saudi Arabia with Discussion of Design Criteria and Methods. Environmental Science and Engineering, 2015, , 215-250.	0.1	2
84	Water supply development for a new 17.5 MGD (66,200 m <sup>3</sup> /d) brackish-water RO facility for the City of Hialeah, Florida. Desalination and Water Treatment, 2009, 7, 78-85.	1.0	1
85	Immature beach/dune sands along a passive continental margin: Composition, grain size and hydraulic properties of coastal sands, Parque del Plata and Las Vegas, Uruguay. Depositional Record, 2019, 5, 322-347.	0.8	1
86	Paleohydrological modeling of penesaline reflux dolomitization: Avon Park Formation (Middle) Tj ETQq0 0 0 rgBT /Overlock 1Q Tf 50 222	0.4	1
87	ORIGIN AND TRANSPORT OF FLUVIAL MUDDY OUTWASH SEDIMENTS OF THE PLIO-PLEISTOCENE RAIGON FORMATION, SOUTHWESTERN URUGUAY. , 2017, , .		1
88	Public Health and Global Sustainability Rely on Desalination and Water Reuse. IDA Journal of Desalination and Water Reuse, 2009, 1, 16-16.	0.4	1
89	A new assessment of combined geothermal electric generation and desalination in western Saudi Arabia: targeted hot spot development. Desalination and Water Treatment, 2014, , 1-8.	1.0	0
90	Backreef and beach carbonate sediments of the Red Sea, Saudi Arabia: impacts of reef geometry and currents on sediment composition. Coral Reefs, 2017, 36, 1157-1169.	0.9	0

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91	Feasibility and Design of Seabed Gallery Intake Systems Along the Arabian Gulf Coast of Saudi Arabia with a Discussion on Gallery Intake Use for the Entire Arabian Gulf Region. Environmental Science and Engineering, 2015, , 251-273.	0.1	0
92	Evaluation of Extensive Secondary Maximum Contaminant Level Exceedances Following Remediation by In Situ Chemical Oxidation. Ground Water Monitoring and Remediation, 0, , .	0.6	0