

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	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
2	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
3	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
4	Climate change and water supply: governance and adaptation planning in Florida. <i>Water Policy</i> , 2021, 23, 521-536.	0.7	10
5	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
6	Changes in Pumping-Induced Groundwater Quality Used to Supply a Large-Capacity Brackish-Water Desalination Facility, Collier County, Florida: A New Aquifer Conceptual Model. <i>Water (Switzerland)</i> , 2021, 13, 1951.	1.2	3
7	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
8	Impacts of Feedwater Quality Change on the Oldest Continuously Operated Brackish-Water Reverse Osmosis Desalination Plant in the United States. <i>Water (Switzerland)</i> , 2021, 13, 2654.	1.2	2
9	Geomorphological impact of Hurricane Irma on Marco Island, Southwest Florida. <i>Natural Hazards</i> , 2021, 106, 1-17.	1.6	5
10	Legacy Phosphorus in Lake Okeechobee (Florida, USA) Sediments: A Review and New Perspective. <i>Water (Switzerland)</i> , 2021, 13, 39.	1.2	12
11	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
12	Aquifer Storage and Recovery Using Saline Aquifers: Hydrogeological Controls and Opportunities. <i>Ground Water</i> , 2020, 58, 9-18.	0.7	13
13	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
14	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
15	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
16	Coping with future change: Optimal design of flexible water distribution systems. <i>Sustainable Cities and Society</i> , 2020, 61, 102306.	5.1	12
17	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
18	Hydraulic Fracturing in Southern Florida: A Critical Analysis of Potential Environmental Impacts. <i>Natural Resources Research</i> , 2020, 29, 3385-3411.	2.2	6

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19	A Clustered, Decentralized Approach to Urban Water Management. <i>Water (Switzerland)</i> , 2020, 12, 185.	1.2	7
20	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. <i>Depositional Record</i> , 2019, 5, 322-347.	0.8	1
21	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
22	Paleohydrological modeling of penesaline reflux dolomitization: Avon Park Formation (Middle Tertiary). <i>Journal of Hydrology</i> , 2019, 570, 102-115.	0.4	1
23	Environmental issues in seawater reverse osmosis desalination: Intakes and outfalls. <i>Desalination</i> , 2018, 434, 198-215.	4.0	214
24	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
25	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
26	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
27	Evolution of Heterogeneous Mixed Siliciclastic/Carbonate Aquifers Containing Metastable Sediments. <i>Ground Water</i> , 2017, 55, 784-796.	0.7	6
28	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
29	Backreef and beach carbonate sediments of the Red Sea, Saudi Arabia: impacts of reef geometry and currents on sediment composition. <i>Coral Reefs</i> , 2017, 36, 1157-1169.	0.9	0
30	Membrane-based seawater desalination: Present and future prospects. <i>Desalination</i> , 2017, 401, 16-21.	4.0	500
31	Aquifer Treatment of Sea Water to Remove Natural Organic Matter Before Desalination. <i>Ground Water</i> , 2017, 55, 316-326.	0.7	8
32	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
33	ORIGIN AND TRANSPORT OF FLUVIAL MUDDY OUTWASH SEDIMENTS OF THE PLIO-PLEISTOCENE RAIGON FORMATION, SOUTHWESTERN URUGUAY. , 2017, , .		1
34	Water Resources Assessment and Management in Drylands. <i>Water (Switzerland)</i> , 2016, 8, 239.	1.2	10
35	Solute Transport Predictive Uncertainty in Alternative Water Supply, Storage, and Treatment Systems. <i>Ground Water</i> , 2016, 54, 627-633.	0.7	5
36	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

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37	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. <i>Desalination and Water Treatment</i> , 2016, 57, 22726-22733.	1.0	3
38	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
39	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
40	Seeking a consensus: water management principles from the monotheistic scriptures. <i>Water Policy</i> , 2015, 17, 984-1002.	0.7	11
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	Well Intake Systems for SWRO Systems: Design and Limitations. <i>Environmental Science and Engineering</i> , 2015, , 147-162.	0.1	4
50	Feasibility and Design of Seabed Gallery Intake Systems Along the Red Sea Coast of Saudi Arabia with Discussion of Design Criteria and Methods. <i>Environmental Science and Engineering</i> , 2015, , 215-250.	0.1	2
51	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. <i>Environmental Science and Engineering</i> , 2015, , 251-273.	0.1	0
52	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
53	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
54	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

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55	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
56	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
57	Water crisis: the metropolitan Atlanta, Georgia, regional water supply conflict. <i>Water Policy</i> , 2014, 16, 669-689.	0.7	18
58	A new assessment of combined geothermal electric generation and desalination in western Saudi Arabia: targeted hot spot development. <i>Desalination and Water Treatment</i> , 2014, , 1-8.	1.0	0
59	Renewable energy-driven innovative energy-efficient desalination technologies. <i>Applied Energy</i> , 2014, 136, 1155-1165.	5.1	240
60	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
61	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
62	Determination of Hydraulic Conductivity from Grain Size Distribution for Different Depositional Environments. <i>Ground Water</i> , 2014, 52, 399-413.	0.7	111
63	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
64	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
65	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
66	Subsurface intakes for seawater reverse osmosis facilities: Capacity limitation, water quality improvement, and economics. <i>Desalination</i> , 2013, 322, 37-51.	4.0	102
67	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
68	Arid Lands Water Evaluation and Management. <i>Environmental Science and Engineering</i> , 2012, , .	0.1	116
69	Restoration of Wadi Aquifers by Artificial Recharge with Treated Waste Water. <i>Ground Water</i> , 2012, 50, 514-527.	0.7	55
70	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
71	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
72	Aquifer Recharge and Recovery: Groundwater Recharge Systems for Treatment, Storage, and Water Reclamation. <i>Ground Water</i> , 2011, 49, 771-771.	0.7	15

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73	Improved aquifer characterization and the optimization of the design of brackish groundwater desalination systems. <i>Desalination and Water Treatment</i> , 2011, 31, 190-196.	1.0	2
74	Simulations of Impacts of Sand and Rock Mining on Florida Coastal Plain Water Resources. <i>Mine Water and the Environment</i> , 2010, 29, 294-300.	0.9	2
75	Aquifer Storage and Recovery: Developing Sustainable Water Supplies. <i>IDA Journal of Desalination and Water Reuse</i> , 2010, 2, 74-80.	0.4	7
76	Self-cleaning beach gallery design for seawater desalination plants. <i>Desalination and Water Treatment</i> , 2010, 13, 88-95.	1.0	19
77	Water supply development for a new 17.5 MGD (66,200 m ³ /d) brackish-water RO facility for the City of Hialeah, Florida. <i>Desalination and Water Treatment</i> , 2009, 7, 78-85.	1.0	1
78	Diagenesis and porosity preservation in Eocene microporous limestones, South Florida, USA. <i>Sedimentary Geology</i> , 2009, 217, 85-94.	1.0	40
79	Public Health and Global Sustainability Rely on Desalination and Water Reuse. <i>IDA Journal of Desalination and Water Reuse</i> , 2009, 1, 16-16.	0.4	1
80	Vertical migration of municipal wastewater in deep injection well systems, South Florida, USA. <i>Hydrogeology Journal</i> , 2007, 15, 1387-1396.	0.9	24
81	Aquifer Storage and Recovery: Recent Hydrogeological Advances and System Performance. <i>Water Environment Research</i> , 2006, 78, 2428-2435.	1.3	53
82	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
83	Unusual calcite stromatolites and pisoids from a landfill leachate collection system. <i>Geology</i> , 2000, 28, 931-934.	2.0	5
84	Groundwater as a feedwater source for membrane treatment plants: Hydrogeologic controls on water quality variation with time. <i>Desalination</i> , 1994, 98, 451-457.	4.0	3
85	Groundwater quality change impacts on a brackish-water reverse osmosis water treatment plant design: the City of Clearwater, Florida. , 0, 211, 31-44.		7
86	How feedwater characterization changes effect brackish-water reverse osmosis plant operation: the town of Jupiter, Florida. , 0, 227, 1-15.		4
87	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
88	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
89	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
90	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

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91	Long-term pumping-induced groundwater quality changes at a brackish-water desalination facility, Sanibel Island, Florida. , 0, 202, 1-13.		4
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