Larry W Mays

List of Publications by Year
in descending order

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65 papers	1,619 citations	304368 22 h-index	301761 39 g-index
65 all docs	65 docs citations	65 times ranked	1213 citing authors

#	Article	IF	Citations
1	Water Distribution System Design Under Uncertainties. Journal of Water Resources Planning and Management - ASCE, 1989, 115, 630-645.	1.3	175
2	Groundwater Resources Sustainability: Past, Present, and Future. Water Resources Management, 2013, 27, 4409-4424.	1.9	108
3	Optimal Operation of Water Distribution Pumps Considering Water Quality. Journal of Water Resources Planning and Management - ASCE, 2000, 126, 210-220.	1.3	96
4	Methodology for Optimal Operation of Pumping Stations in Water Distribution Systems. Journal of Hydraulic Engineering, 1991, 117, 1551-1569.	0.7	95
5	Model for real-time optimal flood control operation of a reservoir system. Water Resources Management, 1990, 4, 21-46.	1.9	89
6	Optimal cost design of branched sewer systems. Water Resources Research, 1975, 11, 37-47.	1.7	78
7	Optimal design of multilevel branching sewer systems. Water Resources Research, 1976, 12, 913-917.	1.7	62
8	Development of an Optimization/Simulation Model for Real-Time Flood-Control Operation of River-Reservoirs Systems. Water Resources Management, 2015, 29, 3987-4005.	1.9	58
9	Optimizing Retention Basin Networks. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 432-439.	1.3	54
10	A very brief history of hydraulic technology during antiquity. Environmental Fluid Mechanics, 2008, 8, 471-484.	0.7	44
11	Sustainability Assessment of Urban Water Distribution Systems. Water Resources Management, 2014, 28, 4373-4384.	1.9	39
12	Heuristic Optimization Model for the Optimal Layout and Pipe Design of Sewer Systems. Water Resources Management, 2016, 30, 1605-1620.	1.9	38
13	Sewer System Design Using Simulated Annealing in Excel. Water Resources Management, 2014, 28, 4551-4565.	1.9	37
14	Optimal Design of Detention and Drainage Channel Systems. Journal of Water Resources Planning and Management - ASCE, 1985, 111, 99-112.	1.3	36
15	Optimization of Multiple Reservoir Networks for Sedimentation Control. Journal of Hydraulic Engineering, 2000, 126, 232-242.	0.7	32
16	The Evolution of Agricultural Drainage from the Earliest Times to the Present. Sustainability, 2020, 12, 416.	1.6	31
17	Application of an Optimization/Simulation Model for Real-Time Flood-Control Operation of River-Reservoirs Systems. Water Resources Management, 2017, 31, 2285-2297.	1.9	30
18	Optimization â€“ Simulation Model for Detention Basin System Design. Water Resources Management, 2014, 28, 1157-1171.	1.9	29

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19	Technical and Environmental Sustainability Assessment of Water Distribution Systems. Water Resources Management, 2014, 28, 4699-4713.	1.9	25
20	Relationship between Hazenâ€“William and Colebrookâ€“White Roughness Values. Journal of Hydraulic Engineering, 2007, 133, 1270-1273.	0.7	23
21	Optimization Model for Agricultural Reclaimed Water Allocation Using Mixed-Integer Nonlinear Programming. Water (Switzerland), 2018, 10, 1291.	1.2	23
22	Optimization Modeling for Sedimentation in Alluvial Rivers. Journal of Water Resources Planning and Management - ASCE, 1995, 121, 251-259.	1.3	22
23	Water Resources Sustainability: Development of a Multiobjective Optimization Model. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	1.3	22
24	Optimal Risk-Based Design of Storm Sewer Networks. American Society of Civil Engineers, Journal of the Environmental Engineering Division, 1975, 101, 381-398.	0.3	22
25	Model for Real-Time Operations of Water Distribution Systems under Limited Electrical Power Availability with Consideration of Water Quality. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	21
26	Resilience of Cyber-Enabled Electrical Energy and Water Distribution Systems Considering Infrastructural Robustness Under Conditions of Limited Water and/or Energy Availability. IEEE Transactions on Engineering Management, 2022, 69, 639-655.	2.4	21
27	Model for Layout and Design of Sewer Systems. Finance and Development, 1976, 102, 385-405.	0.8	20
28	Model for determining real-time optimal dam releases during flooding conditions. Natural Hazards, 2013, 65, 1849-1861.	1.6	19
29	Model for Optimal Operation of Water Distribution Pumps with Uncertain Demand Patterns. Water Resources Management, 2017, 31, 3867-3880.	1.9	18
30	Optimization-simulation model for real-time pump and valve operation of water distribution systems under critical conditions. Urban Water Journal, 2019, 16, 45-55.	1.0	18
31	Realâ€Time Flood Management Model for Highland Lake System. Journal of Water Resources Planning and Management - ASCE, 1987, 113, 620-638.	1.3	15
32	Water Conflicts: From Ancient to Modern Times and in the Future. Sustainability, 2021, 13, 4237.	1.6	15
33	Evolution of Toilets Worldwide through the Millennia. Sustainability, 2016, 8, 779.	1.6	14
34	Optimal Control Approach for Sedimentation Control in Alluvial Rivers. Journal of Water Resources Planning and Management - ASCE, 1995, 121, 408-417.	1.3	13
35	Genetic Algorithms for Optimal Operation of Soil Aquifer Treatment Systems. Water Resources Management, 1998, 12, 375-396.	1.9	12
36	Optimization Model for the Design of Infiltration Basins. Water Resources Management, 2015, 29, 2789-2804.	1.9	12

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37	Resilience of Water Distribution Systems during Real-Time Operations under Limited Water and/or Energy Availability Conditions. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	12
38	Interdependent electric and water infrastructure modelling, optimisation and control. IET Energy Systems Integration, 2020, 2, 9-21.	1.1	12
39	Optimization Model for the Sustainable Water Resource Management of River Basins. Water Resources Management, 2016, 30, 3247-3264.	1.9	11
40	Testing of an Optimization-Simulation Model for Real-Time Flood Operation of River-Reservoir Systems. Water (Switzerland), 2021, 13, 1207.	1.2	11
41	Determination of the Optimal Location for Developments to Minimize Detention Requirements. Water Resources Management, 2013, 27, 5089-5100.	1.9	10
42	Optimization Models for the Design of Vegetative Filter Strips for Stormwater Runoff and Sediment Control. Water Resources Management, 2017, 31, 2545-2560.	1.9	10
43	Austin Detention Basin Optimization Model. Journal of Hydraulic Engineering, 1987, 113, 860-878.	0.7	9
44	OPTIMAL CONTROL OF RESERVOIR RELEASES TO MINIMIZE SEDIMENTATION IN RIVERS AND RESERVOIRS. Journal of the American Water Resources Association, 2001, 37, 197-211.	1.0	9
45	Application of an Optimization Model for the Sustainable Water Resource Management of River Basins. Water Resources Management, 2016, 30, 4883-4898.	1.9	8
46	Determination of Optimal Unit Hydrographs and Green-Ampt Parameters for Watersheds. Journal of Hydrologic Engineering - ASCE, 2014, 19, 375-383.	0.8	7
47	A Reclaimed Wastewater Allocation Optimization Model for Agricultural Irrigation. Environment and Natural Resources Research, 2018, 8, 55.	0.1	7
48	Application of an Optimization Model for Assessing the Performance of Water Appropriation in Iraq. Environment and Natural Resources Research, 2017, 8, 105.	0.1	6
49	Application of an Optimization/Simulation Model for the Real-Time Flood Operation of River-Reservoir Systems with One- and Two-Dimensional Unsteady Flow Modeling. Water (Switzerland), 2022, 14, 87.	1.2	6
50	New Methodology for Optimal Operation of Soil Aquifer Treatment Systems. Water Resources Management, 2000, 14, 13-33.	1.9	5
51	A survey of ancient Minoan water technologies. Water Science and Technology: Water Supply, 2011, 11, 388-399.	1.0	5
52	Model for the Real-Time Operation of Water Distribution Systems under Limited Power Availability. , 2017, , .		5
53	Closure to â€œOptimal Operation of Water Distribution Pumps Considering Water Qualityâ€•by A. Burcu Altan Sakarya and Larry W. Mays. Journal of Water Resources Planning and Management - ASCE, 2003, 129, 82-82.	1.3	4
54	Testing an Optimization/Simulation Model for the Real-Time Operations of Water Distribution Systems under Limited Power Availability. , 2017, , .		4

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55	Optimization Models for Layout and Pipe Design for Storm Sewer Systems. Water Resources Management, 2021, 35, 4841-4854.	1.9	4
56	Successive Approximation Linear Quadratic Regulator for Estuarine Management Problem. Water Resources Management, 2000, 14, 157-175.	1.9	3
57	Optimization Modeling Approach in the Design of Stable Channel System. , 2000, , 1.		2
58	Feedback Method of Control for Estuary Management. Water Resources Management, 1999, 13, 315-334.	1.9	1
59	Sustainability Assessment of Urban Water Distribution Systems. , 2014, 28, 4373.		1
60	Technical and Environmental Sustainability Assessment of Water Distribution Systems. , 2014, 28, 4699.		1
61	Calibration and Control for Estuary System under Uncertainty. Water Resources Management, 1997, 11, 339-363.	1.9	0
62	Closure to â€œPrediction of Intake Vortex Risk by Nearest Neighbors Modelingâ€•by Quentin B. Travis and Larry W. Mays. Journal of Hydraulic Engineering, 2012, 138, 375-376.	0.7	0
63	Sustainability Index for the Management of River Basins Based Upon Ecological, Environmental and Hydrological Integrity and the Minimization of Long Term Risks to Supply. Environment and Natural Resources Research, 2017, 7, 1.	0.1	0
64	Resilience Computations for Optimal Operation of Water Distribution Systems. , 2018, , .		0
65	Sustainable Water Allocation in Umarkhed Taluka through Optimization of Reservoir Operation in the Wardha Sub-Basin, India. Water (Switzerland), 2022, 14, 114.	1.2	0