

Larry W Mays

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

1,234
citations

20
h-index

33
g-index

65
ext. papers

1,439
ext. citations

2.9
avg, IF

4.95
L-index

#	Paper	IF	Citations
64	Water Distribution System Design Under Uncertainties. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1989 , 115, 630-645	2.8	131
63	Groundwater Resources Sustainability: Past, Present, and Future. <i>Water Resources Management</i> , 2013 , 27, 4409-4424	3.7	79
62	Methodology for Optimal Operation of Pumping Stations in Water Distribution Systems. <i>Journal of Hydraulic Engineering</i> , 1991 , 117, 1551-1569	1.8	77
61	Model for real-time optimal flood control operation of a reservoir system. <i>Water Resources Management</i> , 1990 , 4, 21-46	3.7	74
60	Optimal Operation of Water Distribution Pumps Considering Water Quality. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2000 , 126, 210-220	2.8	69
59	Optimal cost design of branched sewer systems. <i>Water Resources Research</i> , 1975 , 11, 37-47	5.4	64
58	Optimal design of multilevel branching sewer systems. <i>Water Resources Research</i> , 1976 , 12, 913-917	5.4	56
57	Optimizing Retention Basin Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008 , 134, 432-439	2.8	45
56	Development of an Optimization/Simulation Model for Real-Time Flood-Control Operation of River-Reservoirs Systems. <i>Water Resources Management</i> , 2015 , 29, 3987-4005	3.7	42
55	Optimal Design of Detention and Drainage Channel Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1985 , 111, 99-112	2.8	35
54	Sustainability Assessment of Urban Water Distribution Systems. <i>Water Resources Management</i> , 2014 , 28, 4373-4384	3.7	32
53	Sewer System Design Using Simulated Annealing in Excel. <i>Water Resources Management</i> , 2014 , 28, 4551-4565	3.7	31
52	A very brief history of hydraulic technology during antiquity. <i>Environmental Fluid Mechanics</i> , 2008 , 8, 471-484	2.2	30
51	Heuristic Optimization Model for the Optimal Layout and Pipe Design of Sewer Systems. <i>Water Resources Management</i> , 2016 , 30, 1605-1620	3.7	28
50	Optimization Simulation Model for Detention Basin System Design. <i>Water Resources Management</i> , 2014 , 28, 1157-1171	3.7	24
49	Application of an Optimization/Simulation Model for Real-Time Flood-Control Operation of River-Reservoirs Systems. <i>Water Resources Management</i> , 2017 , 31, 2285-2297	3.7	22
48	Technical and Environmental Sustainability Assessment of Water Distribution Systems. <i>Water Resources Management</i> , 2014 , 28, 4699-4713	3.7	21

47	Optimization of Multiple Reservoir Networks for Sedimentation Control. <i>Journal of Hydraulic Engineering</i> , 2000 , 126, 232-242	1.8	21
46	Optimization Modeling for Sedimentation in Alluvial Rivers. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1995 , 121, 251-259	2.8	20
45	Optimal Risk-Based Design of Storm Sewer Networks. <i>American Society of Civil Engineers, Journal of the Environmental Engineering Division</i> , 1975 , 101, 381-398		20
44	Model for Real-Time Operations of Water Distribution Systems under Limited Electrical Power Availability with Consideration of Water Quality. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 04018071	2.8	18
43	Water Resources Sustainability: Development of a Multiobjective Optimization Model. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 04014039	2.8	17
42	The Evolution of Agricultural Drainage from the Earliest Times to the Present. <i>Sustainability</i> , 2020 , 12, 416	3.6	16
41	Model for determining real-time optimal dam releases during flooding conditions. <i>Natural Hazards</i> , 2013 , 65, 1849-1861	3	15
40	Model for Layout and Design of Sewer Systems. <i>Finance and Development</i> , 1976 , 102, 385-405	1	15
39	Optimization-simulation model for real-time pump and valve operation of water distribution systems under critical conditions. <i>Urban Water Journal</i> , 2019 , 16, 45-55	2.3	14
38	Relationship between Hazen-William and Colebrook-White Roughness Values. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 1270-1273	1.8	14
37	Real-Time Flood Management Model for Highland Lake System. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1987 , 113, 620-638	2.8	13
36	Model for Optimal Operation of Water Distribution Pumps with Uncertain Demand Patterns. <i>Water Resources Management</i> , 2017 , 31, 3867-3880	3.7	12
35	Optimization Model for Agricultural Reclaimed Water Allocation Using Mixed-Integer Nonlinear Programming. <i>Water (Switzerland)</i> , 2018 , 10, 1291	3	12
34	Evolution of Toilets Worldwide through the Millennia. <i>Sustainability</i> , 2016 , 8, 779	3.6	11
33	Resilience of Cyber-Enabled Electrical Energy and Water Distribution Systems Considering Infrastructural Robustness Under Conditions of Limited Water and/or Energy Availability. <i>IEEE Transactions on Engineering Management</i> , 2019 , 1-17	2.6	11
32	Optimization Models for the Design of Vegetative Filter Strips for Stormwater Runoff and Sediment Control. <i>Water Resources Management</i> , 2017 , 31, 2545-2560	3.7	10
31	Resilience of Water Distribution Systems during Real-Time Operations under Limited Water and/or Energy Availability Conditions. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019 , 145, 04019045	2.8	9
30	Determination of the Optimal Location for Developments to Minimize Detention Requirements. <i>Water Resources Management</i> , 2013 , 27, 5089-5100	3.7	9

29	Genetic Algorithms for Optimal Operation of Soil Aquifer Treatment Systems. <i>Water Resources Management</i> , 1998 , 12, 375-396	3.7	9
28	Optimal Control Approach for Sedimentation Control in Alluvial Rivers. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1995 , 121, 408-417	2.8	9
27	Austin Detention Basin Optimization Model. <i>Journal of Hydraulic Engineering</i> , 1987 , 113, 860-878	1.8	9
26	Optimization Model for the Sustainable Water Resource Management of River Basins. <i>Water Resources Management</i> , 2016 , 30, 3247-3264	3.7	9
25	Optimization Model for the Design of Infiltration Basins. <i>Water Resources Management</i> , 2015 , 29, 2789-2894	3.7	7
24	Interdependent electric and water infrastructure modelling, optimisation and control. <i>IET Energy Systems Integration</i> , 2020 , 2, 9-21	3.3	7
23	Application of an Optimization Model for the Sustainable Water Resource Management of River Basins. <i>Water Resources Management</i> , 2016 , 30, 4883-4898	3.7	7
22	OPTIMAL CONTROL OF RESERVOIR RELEASES TO MINIMIZE SEDIMENTATION IN RIVERS AND RESERVOIRS1. <i>Journal of the American Water Resources Association</i> , 2001 , 37, 197-211	2.1	7
21	Testing of an Optimization-Simulation Model for Real-Time Flood Operation of River-Reservoir Systems. <i>Water (Switzerland)</i> , 2021 , 13, 1207	3	7
20	Determination of Optimal Unit Hydrographs and Green-Ampt Parameters for Watersheds. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 375-383	1.8	6
19	A Reclaimed Wastewater Allocation Optimization Model for Agricultural Irrigation. <i>Environment and Natural Resources Research</i> , 2018 , 8, 55	1.1	5
18	A survey of ancient Minoan water technologies. <i>Water Science and Technology: Water Supply</i> , 2011 , 11, 388-399	1.4	5
17	Water Conflicts: From Ancient to Modern Times and in the Future. <i>Sustainability</i> , 2021 , 13, 4237	3.6	5
16	Application of an Optimization Model for Assessing the Performance of Water Appropriation in Iraq. <i>Environment and Natural Resources Research</i> , 2017 , 8, 105	1.1	4
15	New Methodology for Optimal Operation of Soil Aquifer Treatment Systems. <i>Water Resources Management</i> , 2000 , 14, 13-33	3.7	4
14	Model for the Real-Time Operation of Water Distribution Systems under Limited Power Availability 2017 ,		3
13	Testing an Optimization/Simulation Model for the Real-Time Operations of Water Distribution Systems under Limited Power Availability 2017 ,		3
12	Closure to Optimal Operation of Water Distribution Pumps Considering Water Quality by A. Burcu Altan Sakarya and Larry W. Mays. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2003 , 129, 82-82	2.8	3

11	Optimization Modeling Approach in the Design of Stable Channel System 2000 , 1		2
10	Successive Approximation Linear Quadratic Regulator for Estuarine Management Problem. <i>Water Resources Management</i> , 2000 , 14, 157-175	3.7	2
9	Application of an Optimization/Simulation Model for the Real-Time Flood Operation of River-Reservoir Systems with One- and Two-Dimensional Unsteady Flow Modeling. <i>Water (Switzerland)</i> , 2022 , 14, 87	3	2
8	Feedback Method of Control for Estuary Management. <i>Water Resources Management</i> , 1999 , 13, 315-334	3.7	1
7	Optimization Models for Layout and Pipe Design for Storm Sewer Systems. <i>Water Resources Management</i> , 1	3.7	1
6	Sustainability Assessment of Urban Water Distribution Systems 2014 , 28, 4373		0
5	Technical and Environmental Sustainability Assessment of Water Distribution Systems 2014 , 28, 4699		0
4	Sustainability Index for the Management of River Basins Based Upon Ecological, Environmental and Hydrological Integrity and the Minimization of Long Term Risks to Supply. <i>Environment and Natural Resources Research</i> , 2017 , 7, 1	1.1	
3	Closure to Prediction of Intake Vortex Risk by Nearest Neighbors Modeling by Quentin B. Travis and Larry W. Mays. <i>Journal of Hydraulic Engineering</i> , 2012 , 138, 375-376	1.8	
2	Calibration and Control for Estuary System under Uncertainty. <i>Water Resources Management</i> , 1997 , 11, 339-363	3.7	
1	Sustainable Water Allocation in Umarkhed Taluka through Optimization of Reservoir Operation in the Wardha Sub-Basin, India. <i>Water (Switzerland)</i> , 2022 , 14, 114		3