

Marcio H Giacomoni

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

719
citations

687363

13
h-index

610901

24
g-index

48
all docs

48
docs citations

48
times ranked

868
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of Combined Best Management Practices and Low Impact Development for Sustainable Stormwater Management. Journal of the American Water Resources Association, 2010, 46, 907-918.	2.4	171
2	Battle of the Attack Detection Algorithms: Disclosing Cyber Attacks on Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	2.6	127
3	Complex Adaptive Systems Approach to Simulate the Sustainability of Water Resources and Urbanization. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 554-564.	2.6	66
4	Water and Wastewater Systems and Utilities: Challenges and Opportunities during the COVID-19 Pandemic. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	31
5	Low Impact Development practices in the context of United Nations Sustainable Development Goals: A new concept, lessons learned and challenges. Critical Reviews in Environmental Science and Technology, 2022, 52, 2538-2581.	12.8	27
6	Hydrologic Impact Assessment of Land Cover Change and Stormwater Management Using the Hydrologic Footprint Residence. Journal of the American Water Resources Association, 2014, 50, 1242-1256.	2.4	26
7	Bioretention performance under different rainfall regimes in subtropical conditions: A case study in São Carlos, Brazil. Journal of Environmental Management, 2019, 248, 109266.	7.8	23
8	An evolutionary algorithm approach to generate distinct sets of non-dominated solutions for wicked problems. Engineering Applications of Artificial Intelligence, 2013, 26, 1442-1457.	8.1	21
9	A Review on Interpretable and Explainable Artificial Intelligence in Hydroclimatic Applications. Water (Switzerland), 2022, 14, 1230.	2.7	20
10	Hydrologic Footprint Residence: Environmentally Friendly Criteria for Best Management Practices. Journal of Hydrologic Engineering - ASCE, 2012, 17, 99-108.	1.9	18
11	Assessing the performance of sand filter basins in treating urban stormwater runoff. Environmental Monitoring and Assessment, 2018, 190, 697.	2.7	18
12	Multiobjective Genetic Optimization Approach to Identify Pipe Segment Replacements and Inline Storages to Reduce Sanitary Sewer Overflows. Water Resources Management, 2016, 30, 3707-3722.	3.9	17
13	Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming. IEEE Transactions on Control of Network Systems, 2020, 7, 1151-1163.	3.7	16
14	Effects of the COVID-19 Pandemic on Water Utility Operations and Vulnerability. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	14
15	Identification of Cyber Attacks on Water Distribution Systems by Unveiling Low-Dimensionality in the Sensory Data. , 2017, , .		13
16	Revisiting the Water Quality Sensor Placement Problem: Optimizing Network Observability and State Estimation Metrics. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	10
17	Enhancing the Performance of a Multiobjective Evolutionary Algorithm for Sanitary Sewer Overflow Reduction. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	2.6	9
18	Simulation-Optimization Approach for the Logistics Network Design of Biomass Co-Firing with Coal at Power Plants. Sustainability, 2018, 10, 4299.	3.2	9

#	ARTICLE	IF	CITATIONS
19	Probabilistic State Estimation in Water Networks. IEEE Transactions on Control Systems Technology, 2022, 30, 507-519.	5.2	8
20	Application of a Multiobjective Genetic Algorithm to Reduce Wet Weather Sanitary Sewer Overflows and Surcharge. Journal of Sustainable Water in the Built Environment, 2017, 3, .	1.6	7
21	A Fixed-Point Iteration for Steady-State Analysis of Water Distribution Networks. , 2018, , .		7
22	A New Derivative-Free Linear Approximation for Solving the Network Water Flow Problem With Convergence Guarantees. Water Resources Research, 2020, 56, no.	4.2	7
23	Improving the Treatment Performance of Low Impact Development Practices-Comparison of Sand and Bioretention Soil Mixtures Using Column Experiments. Water (Switzerland), 2021, 13, 1210.	2.7	7
24	State Estimation in Water Distribution Networks through a New Successive Linear Approximation. , 2019, , .		6
25	Assessing the Impact of Climate Change on Transportation Infrastructure Using the Hydrologic-Footprint-Residence Metric. Journal of Hydrologic Engineering - ASCE, 2021, 26, .	1.9	6
26	Geometric Programming-Based Control for Nonlinear, DAE-Constrained Water Distribution Networks. , 2019, , .		6
27	Use of Multiobjective Evolutionary Algorithm Optimization for Low-Impact Development Placement. , 2015, , .		5
28	More Integrated Formal Education and Practice in Water Resources Systems Analysis. Journal of Water Resources Planning and Management - ASCE, 2017, 143, 02517001.	2.6	5
29	Using the Hydrologic Footprint Residence to Evaluate Low Impact Development in Urban Areas. , 2010, , .		4
30	Sanitary Sewer Overflow Reduction Optimization Using Genetic Algorithm. , 2015, , .		3
31	Training Water Resources Systems Engineers to Communicate: Acting on Observations from On-the-Job Practitioners. Journal of Professional Issues in Engineering Education and Practice, 2019, 145, 04019012.	0.9	2
32	Assessing the Performance of Bioretention and Sand Filter Media Using Columns and Synthetic Stormwater. , 2019, , .		2
33	Energy-Efficient Optimal Water Flow Considering Pump Efficiency. , 2021, , .		2
34	Improving Hydrologic Sustainability of Texas A&M University Campus. , 2009, , .		1
35	A multi-objective niching co-evolutionary algorithm (MNCA) for identifying diverse sets of non-dominated solutions. , 2011, , .		1
36	Multi-Objective Approach to Reduce Sanitary Sewer Overflow Using Genetic Algorithms. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
37	The Effects of Climate Change on Low Impact Development (LID) Performance—A Case of Study in Sao Carlos, Brazil. , 2018, , .		1
38	Study the Performance of Various Stormwater Control Measures in a Single Full-Scale Low Impact Development (LID) Testbed under Changing Environments Using SWMM. , 2021, , .		1
39	Permeable Pavement Hydrological Model to Assess the Long-Term Efficiency of Maintenance Using High-Resolution Temperature and Rainfall Data. , 2021, , .		1
40	A Coupled Framework of Cellular Automata-based Fire Spread Model and Water Distribution System for Dynamic Simulation of Urban Conflagration Events. , 2013, , .		0
41	Low Impact Development Placement Investigation Using a Multi-Objective Evolutionary Optimization Algorithm. , 2015, , .		0
42	Enhancing the Performance of Multiobjective Evolutionary Algorithms for Sanitary Sewer Rehabilitation Problems. , 2016, , .		0
43	Use of a Cellular Automata Model to Assess Land Use Change and Its Effects on the Hydrologic Flow Regime. , 2016, , .		0
44	Incorporating Dynamic Land Use Change into Hydrologic Model to Assess Urbanization Effects on Hydrologic Flow Regime. , 2017, , .		0
45	Decentralized Low Impact Development (LID) Practices Addressing the Security of the Water-Energy-Food Nexus. , 2018, , .		0
46	Spatial Assessment of Overland Flow, Pollutant Concentration, and First Flush Using a 2D Non-Point Source Pollution and Hydrological Model for Urban Catchments. , 2021, , .		0
47	Low Impact Development Testbed to Study the Performance of Enhanced Bioretention Systems. , 2020, , .		0
48	Impact of Internal Water Storage on the Pollutant Removal Efficiencies of Bioretention Systems and Sand Filter Basins in a Full-Scale Low Impact Development Testbed. , 2022, , .		0