

Christos Makropoulos

List of Publications by Year in Descending Order

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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.

116
papers

2,733
citations

30
h-index

48
g-index

119
ext. papers

3,107
ext. citations

3.5
avg, IF

5.59
L-index

#	Paper	IF	Citations
116	Stress-Testing Framework for Urban Water Systems: A Source to Tap Approach for Stochastic Resilience Assessment. <i>Water (Switzerland)</i> , 2022 , 14, 154	3	2
115	Revisiting Flood Hazard Assessment Practices under a Hybrid Stochastic Simulation Framework. <i>Water (Switzerland)</i> , 2022 , 14, 457	3	1
114	Augmented Reality (AR) Supporting Citizen Engagement in Circular Economy.. <i>Circular Economy and Sustainability</i> , 2022 , 1-28		2
113	Participatory groundwater modeling for managed aquifer recharge as a tool for water resources management of a coastal aquifer in Greece. <i>Hydrogeology Journal</i> , 2022 , 30, 37	3.1	0
112	Sewer Mining as a Distributed Intervention for Water-Energy-Materials in the Circular Economy Suitable for Dense Urban Environments: A Real World Demonstration in the City of Athens. <i>Water (Switzerland)</i> , 2021 , 13, 2764	3	0
111	CyberPhysical Attack Detection in Water Distribution Systems with Temporal Graph Convolutional Neural Networks. <i>Water (Switzerland)</i> , 2021 , 13, 1247	3	6
110	On the Use of Agent Based Modelling for Addressing the Social Component of Urban Water Management in Europe. <i>Computational Water Energy and Environmental Engineering</i> , 2021 , 10, 140-154	0.6	0
109	Resilience Assessment of Water Quality Sensor Designs under Cyber-Physical Attacks. <i>Water (Switzerland)</i> , 2021 , 13, 647	3	6
108	Simulation and vulnerability assessment of water distribution networks under deliberate contamination attacks. <i>Urban Water Journal</i> , 2021 , 18, 209-222	2.3	8
107	Generic Framework for Downscaling Statistical Quantities at Fine Time-Scales and Its Perspectives towards Cost-Effective Enrichment of Water Demand Records. <i>Water (Switzerland)</i> , 2021 , 13, 3429	3	1
106	Sewer Mining as A Basis for Technological, Business and Governance Solutions for Water in the Circular Economy: The NextGen Athens Demo. <i>Environmental Sciences Proceedings</i> , 2020 , 2, 54	1	3
105	Investigating Decision Mechanisms of Statutory Stakeholders in Flood Risk Strategy Formation: A Computational Experiments Approach. <i>Water (Switzerland)</i> , 2020 , 12, 2716	3	2
104	Cyber-Physical Stress-Testing Platform for Water Distribution Networks. <i>Journal of Environmental Engineering, ASCE</i> , 2020 , 146, 04020061	2	16
103	Simulation of Non-Gaussian Correlated Random Variables, Stochastic Processes and Random Fields: Introducing the anySim R-Package for Environmental Applications and Beyond. <i>Water (Switzerland)</i> , 2020 , 12, 1645	3	10
102	Water Stress Mitigation in the Vit River Basin Based on WEAP and MatLab Simulation. <i>Civil Engineering Journal (Iran)</i> , 2020 , 6, 2058-2071	5.2	15
101	Quantifying Failure for Critical Water Infrastructures under Cyber-Physical Threats. <i>Journal of Environmental Engineering, ASCE</i> , 2020 , 146, 04020108	2	7
100	The Nile Water-Food-Energy Nexus under Uncertainty: Impacts of the Grand Ethiopian Renaissance Dam. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04020085	2.8	14

99	Urban Hydroinformatics: Past, Present and Future. <i>Water (Switzerland)</i> , 2019 , 11, 1959	3	31
98	Building a puzzle to solve a riddle: A multi-scale disaggregation approach for multivariate stochastic processes with any marginal distribution and correlation structure. <i>Journal of Hydrology</i> , 2019 , 575, 354-380	6	14
97	Simulating Marginal and Dependence Behaviour of Water Demand Processes at Any Fine Time Scale. <i>Water (Switzerland)</i> , 2019 , 11, 885	3	18
96	Tackling the "New Normal" A Resilience Assessment Method Applied to Real-World Urban Water Systems. <i>Water (Switzerland)</i> , 2019 , 11, 330	3	12
95	Towards Circular Water Neighborhoods: Simulation-Based Decision Support for Integrated Decentralized Urban Water Systems. <i>Water (Switzerland)</i> , 2019 , 11, 1227	3	7
94	Exploring the Effects of Alternative Water Demand Management Strategies Using an Agent-Based Model. <i>Water (Switzerland)</i> , 2019 , 11, 2216	3	6
93	Water management in the military: The SmartBlue Camp Profiling Tool. <i>Science of the Total Environment</i> , 2019 , 651, 493-505	10.2	1
92	Integrated intelligent water-energy metering systems and informatics: Visioning a digital multi-utility service provider. <i>Environmental Modelling and Software</i> , 2018 , 105, 94-117	5.2	46
91	Stochastic Periodic Autoregressive to Anything (SPARTA): Modeling and Simulation of Cyclostationary Processes With Arbitrary Marginal Distributions. <i>Water Resources Research</i> , 2018 , 54, 161-185	5.4	23
90	A rainfall disaggregation scheme for sub-hourly time scales: Coupling a Bartlett-Lewis based model with adjusting procedures. <i>Journal of Hydrology</i> , 2018 , 556, 980-992	6	45
89	Sewer-mining: A water reuse option supporting circular economy, public service provision and entrepreneurship. <i>Journal of Environmental Management</i> , 2018 , 216, 285-298	7.9	43
88	A Monte-Carlo-Based Method for the Optimal Placement and Operation Scheduling of Sewer Mining Units in Urban Wastewater Networks. <i>Water (Switzerland)</i> , 2018 , 10, 200	3	5
87	A resilience assessment method for urban water systems. <i>Urban Water Journal</i> , 2018 , 15, 316-328	2.3	27
86	Developing a Stress-Testing Platform for Cyber-Physical Water Infrastructure 2018 ,		5
85	Designing water demand management schemes using a socio-technical modelling approach. <i>Science of the Total Environment</i> , 2018 , 622-623, 1590-1602	10.2	16
84	Exploring the Statistical and Distributional Properties of Residential Water Demand at Fine Time Scales. <i>Water (Switzerland)</i> , 2018 , 10, 1481	3	12
83	Simulation of Stochastic Processes Exhibiting Any-Range Dependence and Arbitrary Marginal Distributions. <i>Water Resources Research</i> , 2018 , 54, 9484-9513	5.4	24
82	A Cautionary Note on the Reproduction of Dependencies through Linear Stochastic Models with Non-Gaussian White Noise. <i>Water (Switzerland)</i> , 2018 , 10, 771	3	16

81	Integrated Subsurface Water Solutions for Coastal Wetland Restoration through Integrated Pump&Treat and Aquifer Storage and Recovery (ASR). <i>Proceedings (mdpi)</i> , 2018 , 2, 665	0.3	1
80	Thinking platforms for smarter urban water systems: fusing technical and socio-economic models and tools. <i>Geological Society Special Publication</i> , 2017 , 408, 201-219	1.7	10
79	Exploration of domestic water demand attitudes using qualitative and quantitative social research methods. <i>Urban Water Journal</i> , 2017 , 14, 307-314	2.3	11
78	Exploring the effects of domestic water management measures to water conservation attitudes using agent based modelling. <i>Water Science and Technology: Water Supply</i> , 2017 , 17, 552-560	1.4	5
77	An ontology framework for decentralized water management and analytics using wireless sensor networks. <i>Desalination and Water Treatment</i> , 2016 , 57, 26355-26368		6
76	Modelling domestic water demand: An agent based approach. <i>Environmental Modelling and Software</i> , 2016 , 79, 35-54	5.2	47
75	Surrogate-enhanced evolutionary annealing simplex algorithm for effective and efficient optimization of water resources problems on a budget. <i>Environmental Modelling and Software</i> , 2016 , 77, 122-142	5.2	30
74	Parameterizing residential water demand pulse models through smart meter readings. <i>Environmental Modelling and Software</i> , 2016 , 80, 33-40	5.2	26
73	An integrated wave modelling framework for extreme and rare events for climate change in coastal areas [the case of Rethymno, Crete. <i>Oceanologia</i> , 2016 , 58, 71-89	2.2	19
72	Providing Evidence-Based, Intelligent Support for Flood Resilient Planning and Policy: The PEARL Knowledge Base. <i>Water (Switzerland)</i> , 2016 , 8, 392	3	8
71	FLIRE DSS: A web tool for the management of floods and wildfires in urban and periurban areas. <i>Open Geosciences</i> , 2016 , 8,	1.3	2
70	An integrated system dynamics [cellular automata model for distributed water-infrastructure planning. <i>Water Science and Technology: Water Supply</i> , 2016 , 16, 1519-1527	1.4	14
69	Assessing the Applicability of the Bartlett-Lewis Model in Simulating Residential Water Demands. <i>Procedia Engineering</i> , 2016 , 154, 123-131		7
68	Tethys: Sensor-Based Aquatic Quality Monitoring in Waterways 2016 ,		3
67	A web based DSS for the management of floods and wildfires (FLIRE) in urban and periurban areas. <i>Environmental Modelling and Software</i> , 2016 , 86, 111-115	5.2	13
66	Balancing water demand reduction and rainfall runoff minimisation: modelling green roofs, rainwater harvesting and greywater reuse systems. <i>Water Science and Technology: Water Supply</i> , 2015 , 15, 248-255	1.4	8
65	A Surrogate Based Optimization Approach for the Development of Uncertainty-Aware Reservoir Operational Rules: the Case of Nestos Hydrosystem. <i>Water Resources Management</i> , 2015 , 29, 4719-4734 ^{3.7}		12
64	Multiobjective optimisation on a budget: Exploring surrogate modelling for robust multi-reservoir rules generation under hydrological uncertainty. <i>Environmental Modelling and Software</i> , 2015 , 69, 396-413 ^{5.2}		44

63	Management tools for hydro energy interventions in water supply systems. <i>Water Practice and Technology</i> , 2015 , 10, 214-228	0.9	5
62	Framework for Technical Evaluation of Decision Support Systems Based on Water Smart Metering: The iWIDGET Case. <i>Procedia Engineering</i> , 2015 , 119, 1348-1355		8
61	Water and the city: exploring links between urban growth and water demand management. <i>Journal of Hydroinformatics</i> , 2015 , 17, 176-192	2.6	15
60	Hydrological modelling for flood forecasting: Calibrating the post-fire initial conditions. <i>Journal of Hydrology</i> , 2015 , 529, 1838-1850	6	18
59	Optimal Implementation of Irrigation Practices: Cost-Effective Desertification Action Plan for the Pinios Basin. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 05014005	2.8	17
58	Urban Water System Metabolism Assessment Using WaterMet2 Model. <i>Procedia Engineering</i> , 2014 , 70, 113-122		15
57	Smart metering use cases to increase water and energy efficiency in water supply systems. <i>Water Science and Technology: Water Supply</i> , 2014 , 14, 898-908	1.4	8
56	Tools for Energy Footprint Assessment in Urban Water Systems. <i>Procedia Engineering</i> , 2014 , 89, 548-556		17
55	A Web-based Platform for Water Efficient Households. <i>Procedia Engineering</i> , 2014 , 89, 1128-1135		15
54	An eLearning Approach for Improving Household Water Efficiency. <i>Procedia Engineering</i> , 2014 , 89, 1113-1119		11
53	Assessing the cost-effectiveness of irrigation water management practices in water stressed agricultural catchments: The case of Pinios. <i>Agricultural Water Management</i> , 2014 , 139, 31-42	5.9	33
52	Source to tap urban water cycle modelling. <i>Environmental Modelling and Software</i> , 2013 , 41, 139-150	5.2	63
51	Rethinking urban areas: an example of an integrated blue-green approach. <i>Water Science and Technology: Water Supply</i> , 2013 , 13, 1534-1542	1.4	38
50	Multi-objective optimization for diffuse pollution control at zero cost. <i>Soil Use and Management</i> , 2013 , 29, 83-93	3.1	20
49	How extreme is extreme? An assessment of daily rainfall distribution tails. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 851-862	5.5	118
48	Decision support for diffuse pollution management. <i>Environmental Modelling and Software</i> , 2012 , 30, 57-70	5.2	80
47	Preliminary flood risk assessment: the case of Athens. <i>Natural Hazards</i> , 2012 , 61, 441-468	3	61
46	Assessing the combined benefits of water recycling technologies by modelling the total urban water cycle. <i>Urban Water Journal</i> , 2012 , 9, 1-10	2.3	39

45	Collaborative modelling for active involvement of stakeholders in urban flood risk management. <i>Natural Hazards and Earth System Sciences</i> , 2012 , 12, 2821-2842	3.9	57
44	Integrated modelling for river basin management planning. <i>Water Management</i> , 2011 , 164, 405-419	1	8
43	Reducing surface water pollution through the assessment of the cost-effectiveness of BMPs at different spatial scales. <i>Journal of Environmental Management</i> , 2011 , 92, 2823-35	7.9	70
42	SWAT parameterization for the identification of critical diffuse pollution source areas under data limitations. <i>Ecological Modelling</i> , 2011 , 222, 3500-3512	3	83
41	Diffuse Surface Water Pollution: Driving Factors for Different Geoclimatic Regions. <i>Water Resources Management</i> , 2011 , 25, 3635-3660	3.7	39
40	Validation of satellite rainfall products for operational flood forecasting: the case of the Evros catchment. <i>Theoretical and Applied Climatology</i> , 2011 , 104, 403-414	3	5
39	Pipe burst diagnostics using evidence theory. <i>Journal of Hydroinformatics</i> , 2011 , 13, 596-608	2.6	21
38	Simulation of urban wastewater systems using artificial neural networks: embedding urban areas in integrated catchment modelling. <i>Journal of Hydroinformatics</i> , 2010 , 12, 140-149	2.6	10
37	Impact of system factors on the water saving efficiency of household grey water recycling. <i>Desalination and Water Treatment</i> , 2010 , 24, 226-235		3
36	Impacts of residence time during storage on potential of water saving for grey water recycling system. <i>Water Research</i> , 2010 , 44, 267-77	12.5	52
35	Design Robustness of Local Water-Recycling Schemes. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010 , 136, 531-538	2.8	36
34	Distributed Water Infrastructure for Sustainable Communities. <i>Water Resources Management</i> , 2010 , 24, 2795-2816	3.7	101
33	Flood forecasting in transboundary catchments using the Open Modeling Interface. <i>Environmental Modelling and Software</i> , 2010 , 25, 1640-1649	5.2	20
32	Conceptual Risk-Based Decision Support Methodology for Improved Near Real-Time Response to WDS Failures 2009 ,		3
31	Project Neptune: Improved Operation of Water Distribution Networks 2009 ,		2
30	HESS Opinions: "Climate, hydrology, energy, water: recognizing uncertainty and seeking sustainability". <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 247-257	5.5	54
29	A multi-model approach to the simulation of large scale karst flows. <i>Journal of Hydrology</i> , 2008 , 348, 412-424	6	18
28	Futures: an exploration of scenarios for sustainable urban water management. <i>Water Policy</i> , 2008 , 10, 345-373	1.6	28

27	Decision support for sustainable option selection in integrated urban water management. <i>Environmental Modelling and Software</i> , 2008 , 23, 1448-1460	5.2	203
26	Simulation and spatio-temporal disaggregation of multi-site rainfall data for urban drainage applications. <i>Hydrological Sciences Journal</i> , 2007 , 52, 917-935	3.5	39
25	Life cycle impact assessment of greywater recycling technologies for new developments. <i>Environmental Monitoring and Assessment</i> , 2007 , 129, 27-35	3.1	55
24	A suitability evaluation tool for siting wastewater treatment facilities in new urban developments. <i>Urban Water Journal</i> , 2007 , 4, 61-78	2.3	9
23	A performance investigation of small-bore sewers. <i>Water Science and Technology</i> , 2007 , 55, 85-91	2.2	6
22	Diffuse sources of heavy metals entering an urban wastewater catchment. <i>Chemosphere</i> , 2006 , 63, 64-78	2.4	84
21	Sources of priority substances entering an urban wastewater catchment--trace organic chemicals. <i>Chemosphere</i> , 2006 , 63, 581-91	8.4	60
20	A decision support framework for sustainable urban water planning and management in new urban areas. <i>Water Science and Technology</i> , 2006 , 54, 451-8	2.2	8
19	Survey of priority substances entering thirty English wastewater treatment works. <i>Water and Environment Journal</i> , 2006 , 20, 060606025927018-???	1.7	2
18	Spatial ordered weighted averaging: incorporating spatially variable attitude towards risk in spatial multi-criteria decision-making. <i>Environmental Modelling and Software</i> , 2006 , 21, 69-84	5.2	88
17	Water Resources Modelling under Data Scarcity: Coupling MIKE BASIN and ASM Groundwater Model. <i>Water Resources Management</i> , 2006 , 20, 567-590	3.7	41
16	A multi-objective evolutionary programming approach to the object location spatial analysis and optimisation problem within the urban water management domain. <i>Civil Engineering and Environmental Systems</i> , 2005 , 22, 85-101	2.1	16
15	Modelling sustainable urban water management options. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2005 , 158, 143-153	0.9	6
14	Economic assessment tool for greywater recycling systems. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2005 , 158, 155-161	0.9	19
13	Spatial decisions under uncertainty: fuzzy inference in urban water management. <i>Journal of Hydroinformatics</i> , 2004 , 6, 3-18	2.6	19
12	PLANNING SITE-SPECIFIC WATER-DEMAND MANAGEMENT STRATEGIES. <i>Water and Environment Journal</i> , 2004 , 18, 29-35	1.7	5
11	Fuzzy Logic Spatial Decision Support System for Urban Water Management. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2003 , 129, 69-77	2.8	83
10	GIS-Supported Stormwater Source Control Implementation and Urban Flood Risk Mitigation 2001 , 95-105		1

9	GIS supported evaluation of source control applicability in urban areas. <i>Water Science and Technology</i> , 1999 , 39, 243-252	2.2	62
8	GIS supported evaluation of source control applicability in urban areas. <i>Water Science and Technology</i> , 1999 , 39, 243	2.2	9
7	Stress-testing water distribution networks for cyber-physical attacks on water quality. <i>Urban Water Journal</i> ,1-15	2.3	3
6	Promoting on-site urban wastewater reuse through MBR-RO treatment ⁹¹ , 2-11		5
5	Turning black into green: ecosystem services from treated wastewater ⁹¹ , 198-205		3
4	RISKNOUGHT: Stress-testing platform for cyber-physical water distribution networks		2
3	<i>>HESS Opinions</i> "Climate, hydrology, energy, water: recognizing uncertainty and seeking sustainability"		1
2	Priority pollutants and other micropollutants removal in an MBR-RO wastewater treatment system ¹²⁷ , 121-131		3
1	Individual water consumption behavior in relation to urban residential dynamics: The Case of Qatar. <i>Urban Water Journal</i> ,1-11	2.3	0