

# Christos Makropoulos

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7328209/christos-makropoulos-publications-by-citations.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Decision support for sustainable option selection in integrated urban water management. <i>Environmental Modelling and Software</i> , <b>2008</b> , 23, 1448-1460	5.2	203
115	How extreme is extreme? An assessment of daily rainfall distribution tails. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 851-862	5.5	118
114	Distributed Water Infrastructure for Sustainable Communities. <i>Water Resources Management</i> , <b>2010</b> , 24, 2795-2816	3.7	101
113	Spatial ordered weighted averaging: incorporating spatially variable attitude towards risk in spatial multi-criteria decision-making. <i>Environmental Modelling and Software</i> , <b>2006</b> , 21, 69-84	5.2	88
112	Diffuse sources of heavy metals entering an urban wastewater catchment. <i>Chemosphere</i> , <b>2006</b> , 63, 64-78	7.4	84
111	SWAT parameterization for the identification of critical diffuse pollution source areas under data limitations. <i>Ecological Modelling</i> , <b>2011</b> , 222, 3500-3512	3	83
110	Fuzzy Logic Spatial Decision Support System for Urban Water Management. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2003</b> , 129, 69-77	2.8	83
109	Decision support for diffuse pollution management. <i>Environmental Modelling and Software</i> , <b>2012</b> , 30, 57-70	5.2	80
108	Reducing surface water pollution through the assessment of the cost-effectiveness of BMPs at different spatial scales. <i>Journal of Environmental Management</i> , <b>2011</b> , 92, 2823-35	7.9	70
107	Source to tap urban water cycle modelling. <i>Environmental Modelling and Software</i> , <b>2013</b> , 41, 139-150	5.2	63
106	GIS supported evaluation of source control applicability in urban areas. <i>Water Science and Technology</i> , <b>1999</b> , 39, 243-252	2.2	62
105	Preliminary flood risk assessment: the case of Athens. <i>Natural Hazards</i> , <b>2012</b> , 61, 441-468	3	61
104	Sources of priority substances entering an urban wastewater catchment--trace organic chemicals. <i>Chemosphere</i> , <b>2006</b> , 63, 581-91	8.4	60
103	Collaborative modelling for active involvement of stakeholders in urban flood risk management. <i>Natural Hazards and Earth System Sciences</i> , <b>2012</b> , 12, 2821-2842	3.9	57
102	Life cycle impact assessment of greywater recycling technologies for new developments. <i>Environmental Monitoring and Assessment</i> , <b>2007</b> , 129, 27-35	3.1	55
101	HESS Opinions: "Climate, hydrology, energy, water: recognizing uncertainty and seeking sustainability". <i>Hydrology and Earth System Sciences</i> , <b>2009</b> , 13, 247-257	5.5	54
100	Impacts of residence time during storage on potential of water saving for grey water recycling system. <i>Water Research</i> , <b>2010</b> , 44, 267-77	12.5	52

99	Modelling domestic water demand: An agent based approach. <i>Environmental Modelling and Software</i> , <b>2016</b> , 79, 35-54	5.2	47
98	Integrated intelligent water-energy metering systems and informatics: Visioning a digital multi-utility service provider. <i>Environmental Modelling and Software</i> , <b>2018</b> , 105, 94-117	5.2	46
97	A rainfall disaggregation scheme for sub-hourly time scales: Coupling a Bartlett-Lewis based model with adjusting procedures. <i>Journal of Hydrology</i> , <b>2018</b> , 556, 980-992	6	45
96	Multiobjective optimisation on a budget: Exploring surrogate modelling for robust multi-reservoir rules generation under hydrological uncertainty. <i>Environmental Modelling and Software</i> , <b>2015</b> , 69, 396-413	5.2	44
95	Sewer-mining: A water reuse option supporting circular economy, public service provision and entrepreneurship. <i>Journal of Environmental Management</i> , <b>2018</b> , 216, 285-298	7.9	43
94	Water Resources Modelling under Data Scarcity: Coupling MIKE BASIN and ASM Groundwater Model. <i>Water Resources Management</i> , <b>2006</b> , 20, 567-590	3.7	41
93	Assessing the combined benefits of water recycling technologies by modelling the total urban water cycle. <i>Urban Water Journal</i> , <b>2012</b> , 9, 1-10	2.3	39
92	Diffuse Surface Water Pollution: Driving Factors for Different Geoclimatic Regions. <i>Water Resources Management</i> , <b>2011</b> , 25, 3635-3660	3.7	39
91	Simulation and spatio-temporal disaggregation of multi-site rainfall data for urban drainage applications. <i>Hydrological Sciences Journal</i> , <b>2007</b> , 52, 917-935	3.5	39
90	Rethinking urban areas: an example of an integrated blue-green approach. <i>Water Science and Technology: Water Supply</i> , <b>2013</b> , 13, 1534-1542	1.4	38
89	Design Robustness of Local Water-Recycling Schemes. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2010</b> , 136, 531-538	2.8	36
88	Assessing the cost-effectiveness of irrigation water management practices in water stressed agricultural catchments: The case of Pinios. <i>Agricultural Water Management</i> , <b>2014</b> , 139, 31-42	5.9	33
87	Urban Hydroinformatics: Past, Present and Future. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1959	3	31
86	Surrogate-enhanced evolutionary annealing simplex algorithm for effective and efficient optimization of water resources problems on a budget. <i>Environmental Modelling and Software</i> , <b>2016</b> , 77, 122-142	5.2	30
85	Futures: an exploration of scenarios for sustainable urban water management. <i>Water Policy</i> , <b>2008</b> , 10, 345-373	1.6	28
84	A resilience assessment method for urban water systems. <i>Urban Water Journal</i> , <b>2018</b> , 15, 316-328	2.3	27
83	Parameterizing residential water demand pulse models through smart meter readings. <i>Environmental Modelling and Software</i> , <b>2016</b> , 80, 33-40	5.2	26
82	Simulation of Stochastic Processes Exhibiting Any-Range Dependence and Arbitrary Marginal Distributions. <i>Water Resources Research</i> , <b>2018</b> , 54, 9484-9513	5.4	24

81	Stochastic Periodic Autoregressive to Anything (SPARTA): Modeling and Simulation of Cyclostationary Processes With Arbitrary Marginal Distributions. <i>Water Resources Research</i> , <b>2018</b> , 54, 161-185	5.4	23
80	Pipe burst diagnostics using evidence theory. <i>Journal of Hydroinformatics</i> , <b>2011</b> , 13, 596-608	2.6	21
79	Multi-objective optimization for diffuse pollution control at zero cost. <i>Soil Use and Management</i> , <b>2013</b> , 29, 83-93	3.1	20
78	Flood forecasting in transboundary catchments using the Open Modeling Interface. <i>Environmental Modelling and Software</i> , <b>2010</b> , 25, 1640-1649	5.2	20
77	An integrated wave modelling framework for extreme and rare events for climate change in coastal areas – the case of Rethymno, Crete. <i>Oceanologia</i> , <b>2016</b> , 58, 71-89	2.2	19
76	Spatial decisions under uncertainty: fuzzy inference in urban water management. <i>Journal of Hydroinformatics</i> , <b>2004</b> , 6, 3-18	2.6	19
75	Economic assessment tool for greywater recycling systems. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , <b>2005</b> , 158, 155-161	0.9	19
74	Simulating Marginal and Dependence Behaviour of Water Demand Processes at Any Fine Time Scale. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 885	3	18
73	Hydrological modelling for flood forecasting: Calibrating the post-fire initial conditions. <i>Journal of Hydrology</i> , <b>2015</b> , 529, 1838-1850	6	18
72	A multi-model approach to the simulation of large scale karst flows. <i>Journal of Hydrology</i> , <b>2008</b> , 348, 412-424	6	18
71	Optimal Implementation of Irrigation Practices: Cost-Effective Desertification Action Plan for the Pinios Basin. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2014</b> , 140, 05014005	2.8	17
70	Tools for Energy Footprint Assessment in Urban Water Systems. <i>Procedia Engineering</i> , <b>2014</b> , 89, 548-556		17
69	Cyber-Physical Stress-Testing Platform for Water Distribution Networks. <i>Journal of Environmental Engineering, ASCE</i> , <b>2020</b> , 146, 04020061	2	16
68	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> , <b>2005</b> , 22, 85-101	2.1	16
67	Designing water demand management schemes using a socio-technical modelling approach. <i>Science of the Total Environment</i> , <b>2018</b> , 622-623, 1590-1602	10.2	16
66	A Cautionary Note on the Reproduction of Dependencies through Linear Stochastic Models with Non-Gaussian White Noise. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 771	3	16
65	Urban Water System Metabolism Assessment Using WaterMet2 Model. <i>Procedia Engineering</i> , <b>2014</b> , 70, 113-122		15
64	Water and the city: exploring links between urban growth and water demand management. <i>Journal of Hydroinformatics</i> , <b>2015</b> , 17, 176-192	2.6	15

63	A Web-based Platform for Water Efficient Households. <i>Procedia Engineering</i> , <b>2014</b> , 89, 1128-1135		15
62	Water Stress Mitigation in the Vit River Basin Based on WEAP and MatLab Simulation. <i>Civil Engineering Journal (Iran)</i> , <b>2020</b> , 6, 2058-2071	5.2	15
61	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> , <b>2019</b> , 575, 354-380	6	14
60	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> , <b>2020</b> , 146, 04020085	2.8	14
59	An integrated system dynamics cellular automata model for distributed water-infrastructure planning. <i>Water Science and Technology: Water Supply</i> , <b>2016</b> , 16, 1519-1527	1.4	14
58	A web based DSS for the management of floods and wildfires (FLIRE) in urban and periurban areas. <i>Environmental Modelling and Software</i> , <b>2016</b> , 86, 111-115	5.2	13
57	Tackling the New Normal: A Resilience Assessment Method Applied to Real-World Urban Water Systems. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 330	3	12
56	A Surrogate Based Optimization Approach for the Development of Uncertainty-Aware Reservoir Operational Rules: the Case of Nestos Hydrosystem. <i>Water Resources Management</i> , <b>2015</b> , 29, 4719-4734	3.7	12
55	Exploring the Statistical and Distributional Properties of Residential Water Demand at Fine Time Scales. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1481	3	12
54	Exploration of domestic water demand attitudes using qualitative and quantitative social research methods. <i>Urban Water Journal</i> , <b>2017</b> , 14, 307-314	2.3	11
53	An eLearning Approach for Improving Household Water Efficiency. <i>Procedia Engineering</i> , <b>2014</b> , 89, 1113-1119		11
52	Thinking platforms for smarter urban water systems: fusing technical and socio-economic models and tools. <i>Geological Society Special Publication</i> , <b>2017</b> , 408, 201-219	1.7	10
51	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> , <b>2020</b> , 12, 1645	3	10
50	Simulation of urban wastewater systems using artificial neural networks: embedding urban areas in integrated catchment modelling. <i>Journal of Hydroinformatics</i> , <b>2010</b> , 12, 140-149	2.6	10
49	A suitability evaluation tool for siting wastewater treatment facilities in new urban developments. <i>Urban Water Journal</i> , <b>2007</b> , 4, 61-78	2.3	9
48	GIS supported evaluation of source control applicability in urban areas. <i>Water Science and Technology</i> , <b>1999</b> , 39, 243	2.2	9
47	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> , <b>2015</b> , 15, 248-255	1.4	8
46	Smart metering use cases to increase water and energy efficiency in water supply systems. <i>Water Science and Technology: Water Supply</i> , <b>2014</b> , 14, 898-908	1.4	8

45	Framework for Technical Evaluation of Decision Support Systems Based on Water Smart Metering: The iWIDGET Case. <i>Procedia Engineering</i> , <b>2015</b> , 119, 1348-1355		8
44	Integrated modelling for river basin management planning. <i>Water Management</i> , <b>2011</b> , 164, 405-419	1	8
43	A decision support framework for sustainable urban water planning and management in new urban areas. <i>Water Science and Technology</i> , <b>2006</b> , 54, 451-8	2.2	8
42	Providing Evidence-Based, Intelligent Support for Flood Resilient Planning and Policy: The PEARL Knowledge Base. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 392	3	8
41	Simulation and vulnerability assessment of water distribution networks under deliberate contamination attacks. <i>Urban Water Journal</i> , <b>2021</b> , 18, 209-222	2.3	8
40	Towards Circular Water Neighborhoods: Simulation-Based Decision Support for Integrated Decentralized Urban Water Systems. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1227	3	7
39	Quantifying Failure for Critical Water Infrastructures under Cyber-Physical Threats. <i>Journal of Environmental Engineering, ASCE</i> , <b>2020</b> , 146, 04020108	2	7
38	Assessing the Applicability of the Bartlett-Lewis Model in Simulating Residential Water Demands. <i>Procedia Engineering</i> , <b>2016</b> , 154, 123-131		7
37	An ontology framework for decentralized water management and analytics using wireless sensor networks. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 26355-26368		6
36	A performance investigation of small-bore sewers. <i>Water Science and Technology</i> , <b>2007</b> , 55, 85-91	2.2	6
35	Modelling sustainable urban water management options. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , <b>2005</b> , 158, 143-153	0.9	6
34	CyberPhysical Attack Detection in Water Distribution Systems with Temporal Graph Convolutional Neural Networks. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 1247	3	6
33	Exploring the Effects of Alternative Water Demand Management Strategies Using an Agent-Based Model. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 2216	3	6
32	Resilience Assessment of Water Quality Sensor Designs under Cyber-Physical Attacks. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 647	3	6
31	Exploring the effects of domestic water management measures to water conservation attitudes using agent based modelling. <i>Water Science and Technology: Water Supply</i> , <b>2017</b> , 17, 552-560	1.4	5
30	A Monte-Carlo-Based Method for the Optimal Placement and Operation Scheduling of Sewer Mining Units in Urban Wastewater Networks. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 200	3	5
29	Developing a Stress-Testing Platform for Cyber-Physical Water Infrastructure <b>2018</b> ,		5
28	Management tools for hydro energy interventions in water supply systems. <i>Water Practice and Technology</i> , <b>2015</b> , 10, 214-228	0.9	5

27	Validation of satellite rainfall products for operational flood forecasting: the case of the Evros catchment. <i>Theoretical and Applied Climatology</i> , <b>2011</b> , 104, 403-414	3	5
26	PLANNING SITE-SPECIFIC WATER-DEMAND MANAGEMENT STRATEGIES. <i>Water and Environment Journal</i> , <b>2004</b> , 18, 29-35	1.7	5
25	Promoting on-site urban wastewater reuse through MBR-RO treatment <sup>91</sup> , 2-11		5
24	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> , <b>2020</b> , 2, 54	1	3
23	Impact of system factors on the water saving efficiency of household grey water recycling. <i>Desalination and Water Treatment</i> , <b>2010</b> , 24, 226-235		3
22	Conceptual Risk-Based Decision Support Methodology for Improved Near Real-Time Response to WDS Failures <b>2009</b> ,		3
21	Stress-testing water distribution networks for cyber-physical attacks on water quality. <i>Urban Water Journal</i> , 1-15	2.3	3
20	Turning black into green: ecosystem services from treated wastewater <sup>91</sup> , 198-205		3
19	Priority pollutants and other micropollutants removal in an MBR-RO wastewater treatment system <sup>127</sup> , 121-131		3
18	Tethys: Sensor-Based Aquatic Quality Monitoring in Waterways <b>2016</b> ,		3
17	Investigating Decision Mechanisms of Statutory Stakeholders in Flood Risk Strategy Formation: A Computational Experiments Approach. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2716	3	2
16	Project Neptune: Improved Operation of Water Distribution Networks <b>2009</b> ,		2
15	Survey of priority substances entering thirty English wastewater treatment works. <i>Water and Environment Journal</i> , <b>2006</b> , 20, 060606025927018-???	1.7	2
14	Stress-Testing Framework for Urban Water Systems: A Source to Tap Approach for Stochastic Resilience Assessment. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 154	3	2
13	Augmented Reality (AR) Supporting Citizen Engagement in Circular Economy.. <i>Circular Economy and Sustainability</i> , <b>2022</b> , 1-28		2
12	RISKNOUGHT: Stress-testing platform for cyber-physical water distribution networks		2
11	FLIRE DSS: A web tool for the management of floods and wildfires in urban and periurban areas. <i>Open Geosciences</i> , <b>2016</b> , 8,	1.3	2
10	GIS-Supported Stormwater Source Control Implementation and Urban Flood Risk Mitigation <b>2001</b> , 95-105		1

9	Revisiting Flood Hazard Assessment Practices under a Hybrid Stochastic Simulation Framework. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 457	3	1
8	&lt;i>HES&lt;/i> Opinions&lt;/i> &quot;Climate, hydrology, energy, water: recognizing uncertainty and seeking sustainability&quot;		1
7	Water management in the military: The SmartBlue Camp Profiling Tool. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 493-505	10.2	1
6	Integrated Subsurface Water Solutions for Coastal Wetland Restoration through Integrated Pump&Treat and Aquifer Storage and Recovery (ASR). <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 665	0.3	1
5	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> , <b>2021</b> , 13, 3429	3	1
4	Participatory groundwater modeling for managed aquifer recharge as a tool for water resources management of a coastal aquifer in Greece. <i>Hydrogeology Journal</i> , <b>2022</b> , 30, 37	3.1	0
3	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> , <b>2021</b> , 13, 2764	3	0
2	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> , <b>2021</b> , 10, 140-154	0.6	0
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