

# Alvaro Sordo-Ward

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,666  
citations

430754

18  
h-index

289141

40  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1663  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological impacts of run-of-river hydropower plantsâ€”Current status and future prospects on the brink of energy transition. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 142, 110833.	8.2	299
2	Influence of hydrologically based environmental flow methods on flow alteration and energy production in a run-of-river hydropower plant. <i>Journal of Cleaner Production</i> , 2019, 232, 1028-1042.	4.6	287
3	Water-energy-ecosystem nexus: Balancing competing interests at a run-of-river hydropower plant coupling a hydrologicâ€”ecohydraulic approach. <i>Energy Conversion and Management</i> , 2020, 223, 113267.	4.4	226
4	Flow regime aspects in determining environmental flows and maximising energy production at run-of-river hydropower plants. <i>Applied Energy</i> , 2019, 256, 113980.	5.1	211
5	Tradeoff between economic and environmental costs and benefits of hydropower production at run-of-river-diversion schemes under different environmental flows scenarios. <i>Journal of Hydrology</i> , 2019, 572, 790-804.	2.3	65
6	Characterizing effects of hydropower plants on sub-daily flow regimes. <i>Journal of Hydrology</i> , 2017, 550, 186-200.	2.3	60
7	Hydropeaking affects germination and establishment of riverbank vegetation. <i>Ecological Applications</i> , 2020, 30, e02076.	1.8	38
8	Responses of riparian guilds to flow alterations in a Mediterranean stream. <i>Journal of Vegetation Science</i> , 2012, 23, 443-458.	1.1	36
9	Characterisation of the Sensitivity of Water Resources Systems to Climate Change. <i>Water Resources Management</i> , 2013, 27, 4237-4258.	1.9	31
10	Extreme flood abatement in large dams with fixed-crest spillways. <i>Journal of Hydrology</i> , 2012, 466-467, 60-72.	2.3	28
11	Improving runoff estimates from regional climate models: a performance analysis in Spain. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 1709-1723.	1.9	28
12	Adaptation Effort and Performance of Water Management Strategies to Face Climate Change Impacts in Six Representative Basins of Southern Europe. <i>Water (Switzerland)</i> , 2019, 11, 1078.	1.2	28
13	Influence of initial reservoir level and gate failure in dam safety analysis. Stochastic approach. <i>Journal of Hydrology</i> , 2017, 550, 669-684.	2.3	27
14	Extreme flood abatement in large dams with gate-controlled spillways. <i>Journal of Hydrology</i> , 2013, 498, 113-123.	2.3	24
15	Impact of Hydrological Uncertainty on Water Management Decisions. <i>Water Resources Management</i> , 2016, 30, 5535-5551.	1.9	23
16	Simulation of overflow nappe impingement jets. <i>Journal of Hydroinformatics</i> , 2014, 16, 922-940.	1.1	21
17	Analysis of Current and Future SPEI Droughts in the La Plata Basin Based on Results from the Regional Eta Climate Model. <i>Water (Switzerland)</i> , 2017, 9, 857.	1.2	20
18	A Parametric Flood Control Method for Dams with Gate-Controlled Spillways. <i>Water (Switzerland)</i> , 2017, 9, 237.	1.2	18

#	ARTICLE	IF	CITATIONS
19	Risk-based methodology for parameter calibration of a reservoir flood control model. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 965-981.	1.5	17
20	Probabilistic-Multiobjective Comparison of User-Defined Operating Rules. Case Study: Hydropower Dam in Spain. <i>Water (Switzerland)</i> , 2015, 7, 956-974.	1.2	14
21	Blue Water in Europe: Estimates of Current and Future Availability and Analysis of Uncertainty. <i>Water (Switzerland)</i> , 2019, 11, 420.	1.2	14
22	Considerations for the design of bottom intake systems. <i>Journal of Hydroinformatics</i> , 2018, 20, 232-245.	1.1	13
23	How Safe is Hydrologic Infrastructure Design? Analysis of Factors Affecting Extreme Flood Estimation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, .	0.8	12
24	Hydrological Risk Analysis of Dams: The Influence of Initial Reservoir Level Conditions. <i>Water (Switzerland)</i> , 2019, 11, 461.	1.2	12
25	Fully Stochastic Distributed Methodology for Multivariate Flood Frequency Analysis. <i>Water (Switzerland)</i> , 2016, 8, 225.	1.2	11
26	The Influence of the Annual Number of Storms on the Derivation of the Flood Frequency Curve through Event-Based Simulation. <i>Water (Switzerland)</i> , 2016, 8, 335.	1.2	11
27	Exploring the Role of Reservoir Storage in Enhancing Resilience to Climate Change in Southern Europe. <i>Water (Switzerland)</i> , 2021, 13, 85.	1.2	11
28	Dataset of Georeferenced Dams in South America (DDSA). <i>Earth System Science Data</i> , 2021, 13, 213-229.	3.7	10
29	Probabilistic Model for Real-Time Flood Operation of a Dam Based on a Deterministic Optimization Model. <i>Water (Switzerland)</i> , 2020, 12, 3206.	1.2	7
30	Multi-Objective Approach for Determining Optimal Sustainable Urban Drainage Systems Combination at City Scale. The Case of San Luis Potosí (Mexico). <i>Water (Switzerland)</i> , 2020, 12, 835.	1.2	7
31	Estimation of Fuzzy Parameters in the Linear Muskingum Model with the Aid of Particle Swarm Optimization. <i>Sustainability</i> , 2021, 13, 7152.	1.6	7
32	Shifts in Riparian Plant Life Forms Following Flow Regulation. <i>Forests</i> , 2020, 11, 518.	0.9	6
33	Flood Control Versus Water Conservation in Reservoirs: A New Policy to Allocate Available Storage. <i>Water (Switzerland)</i> , 2020, 12, 994.	1.2	6
34	A Stochastic Procedure for Temporal Disaggregation of Daily Rainfall Data in SuDS Design. <i>Water (Switzerland)</i> , 2021, 13, 403.	1.2	6
35	Influence of Erodible Beds on Shallow Water Hydrodynamics during Flood Events. <i>Water (Switzerland)</i> , 2020, 12, 3340.	1.2	5
36	A New Tool for Assessing Environmental Impacts of Altering Short-Term Flow and Water Level Regimes. <i>Water (Switzerland)</i> , 2020, 12, 2913.	1.2	5

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37	A Continental Assessment of Reservoir Storage and Water Availability in South America. Water (Switzerland), 2021, 13, 1992.	1.2	5
38	Sanitation Network Sulfide Modeling as a Tool for Asset Management. The Case of the City of Murcia (Spain). Sustainability, 2020, 12, 7643.	1.6	4
39	Facing Future Water Scarcity in the Duero-Douro Basin: Comparative Effect of Policy Measures on Irrigation Water Availability. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	1.3	4
40	Influencia del nivel inicial en la definición de resguardos estacionales en presas. Ingeniería Del Agua, 2018, 22, 225.	0.2	4
41	Dependence Between Extreme Rainfall Events and the Seasonality and Bivariate Properties of Floods. A Continuous Distributed Physically-Based Approach. Water (Switzerland), 2019, 11, 1896.	1.2	3
42	Effects of Key Properties of Rainfall Series on Hydrologic Design of Sustainable Urban Drainage Systems (SUDS). Proceedings (mdpi), 2019, 7, 17.	0.2	1
43	Preface to the Special Issue: Managing Water Resources for a Sustainable Future. Water Resources Management, 2020, 34, 4307-4311.	1.9	1
44	Stochastic Assessment of the Influence of Reservoir Operation in Hydrological Dam Safety through Risk Indexes. Proceedings (mdpi), 2018, 7, .	0.2	0
45	Stochastic Hybrid Event Based and Continuous Approach to Derive Flood Frequency Curve. Water (Switzerland), 2021, 13, 1931.	1.2	0