Juan Antonio Rodrguez Daz

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/6999419/juan-antonio-rodriguez-diaz-publications-by-year.pdf
Version: 2024-04-28

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.

84 papers	2,344 citations	28 h-index	45 g-index
91 ext. papers	2,697 ext. citations	4.1 avg, IF	5.33 L-index

#	Paper	IF	Citations
84	Spatio-temporal analysis of nitrogen variations in an irrigation distribution network using reclaimed water for irrigating olive trees. *Agricultural Water Management*, **2021**, 262, 107353	5.9	0
83	Energy Recovery Potential in Industrial and Municipal Wastewater Networks Using Micro-Hydropower in Spain. *Water (Switzerland)*, **2021**, 13, 691	3	6
82	Multi-Country Scale Assessment of Available Energy Recovery Potential Using Micro-Hydropower in Drinking, Pressurised Irrigation and Wastewater Networks, Covering Part of the EU. *Water (Switzerland)*, **2021**, 13, 899	3	10
81	DESIDS: An Integrated Decision Support System for the Planning, Analysis, Management and Rehabilitation of Pressurised Irrigation Distribution Systems. *Modelling*, **2021**, 2, 308-326	2.5	0
80	Optimization-Based Methodology for Selection of Pump-as-Turbine in Water Distribution Networks: Effects of Different Objectives and Machine Operation Limits on Best Efficiency Point. *Journal of Water Resources Planning and Management - ASCE*, **2021**, 147, 04021019	2.8	4
79	Evaluation of the design and performance of a micro hydropower plant in a pressurised irrigation network: Real world application at farm-level in Southern Spain. *Renewable Energy*, **2021**, 169, 1106-1120	8.1	6
78	Sustainable Water-Energy Nexus towards Developing Countries: Water Sector Efficiency. *Energies*, **2021**, 14, 3525	3.1	6
77	Forecasting of applied irrigation depths at farm level for energy tariff periods using Coactive neuro-genetic fuzzy system. *Agricultural Water Management*, **2021**, 256, 107068	5.9	6
76	Estimating regional potential for micro-hydropower energy recovery in irrigation networks on a large geographical scale. *Renewable Energy*, **2020**, 155, 396-406	8.1	11
75	Generating Hydrants' Configurations for Efficient Analysis and Management of Pressurized Irrigation Distribution Systems. *Water (Switzerland)*, **2020**, 12, 204	3	3
74	Open source application for optimum irrigation and fertilization using reclaimed water in olive orchards. *Computers and Electronics in Agriculture*, **2020**, 173, 105407	6.5	4
73	Comprehensive sizing methodology of smart photovoltaic irrigation systems. *Agricultural Water Management*, **2020**, 229, 105888	5.9	4
72	Hydropower energy recovery in irrigation networks: Validation of a methodology for flow prediction and pump as turbine selection. *Renewable Energy*, **2020**, 147, 1728-1738	8.1	22
71	Pump-as-Turbine Selection Methodology for Energy Recovery in Irrigation Networks: Minimising the Payback Period. *Water (Switzerland)*, **2019**, 11, 149	3	12
70	Comparing the environmental and economic impacts of on- or off-grid solar photovoltaics with traditional energy sources for rural irrigation systems. *Renewable Energy*, **2019**, 140, 895-904	8.1	28
69	Middleware to Operate Smart Photovoltaic Irrigation Systems in Real Time. *Water (Switzerland)*, **2019**, 11, 1508	3	6
68	REUTIVAR: Model for Precision Fertigation Scheduling for Olive Orchards Using Reclaimed Water. *Water (Switzerland)*, **2019**, 11, 2632	3	2

67	Prediction of irrigation event occurrence at farm level using optimal decision trees. *Computers and Electronics in Agriculture*, **2019**, 157, 173-180	6.5	20
66	Optimisation of water demand forecasting by artificial intelligence with short data sets. *Biosystems Engineering*, **2019**, 177, 59-66	4.8	39
65	Hydro-power energy recovery in pressurized irrigation networks: A case study of an Irrigation District in the South of Spain. *Agricultural Water Management*, **2018**, 204, 17-27	5.9	25
64	Coupling irrigation scheduling with solar energy production in a smart irrigation management system. *Journal of Cleaner Production*, **2018**, 175, 670-682	10.3	57
63	Assessing telemetry and remote control systems for water users associations in Spain. *Agricultural Water Management*, **2018**, 202, 89-98	5.9	12
62	Multi-Objective Optimization Model Based on Localized Loops for the Rehabilitation of Gravity-fed Pressurized Irrigation Networks. *Water Resources Management*, **2018**, 32, 465-480	3.7	5
61	Modelling impacts of precision irrigation on crop yield and in-field water management. *Precision Agriculture*, **2018**, 19, 497-512	5.6	32
60	Prediction of applied irrigation depths at farm level using artificial intelligence techniques. *Agricultural Water Management*, **2018**, 206, 229-240	5.9	14
59	Energy Saving Measures in Pressurized Irrigation Networks: A New Challenge for Power Generation. *Proceedings (mdpi)*, **2018**, 2, 1440	0.3	1
58	Potential Energy Recovery Using Micro-Hydropower Technology in Irrigation Networks: Real-World Case Studies in the South of Spain. *Proceedings (mdpi)*, **2018**, 2, 679	0.3	5
57	Reducing the Energy Dependency of Water Networks in Irrigation, Public Drinking Water, and Process Industry: REDAWN Project. *Proceedings (mdpi)*, **2018**, 2, 681	0.3	3
56	WaterEnergy Nexus in Irrigated Areas. Lessons From Real Case Studies **2018**, 41-59		2
55	Water Footprint Accounting for Improving Irrigation Management in Olive Trees **2018**, 61-72		2
54	Performance indicators to assess the implementation of automation in golf courses located in Southeast Spain. *Agricultural Water Management*, **2017**, 183, 35-40	5.9	6
53	Optimal operation of pressurised irrigation distribution systems operating by gravity. *Agricultural Water Management*, **2017**, 184, 77-85	5.9	5
52	Optimal Design of Pressurized Irrigation Networks to Minimize the Operational Cost under Different Management Scenarios. *Water Resources Management*, **2017**, 31, 1995-2010	3.7	16
51	Semi-arranged demand as an energy saving measure for pressurized irrigation networks. *Agricultural Water Management*, **2017**, 193, 22-29	5.9	8
50	Drip Irrigation Scheduling Using Hydrus 2-D Numerical Model Application for Strawberry Production in South-West Spain. *Irrigation and Drainage*, **2017**, 66, 797-807	1.1	12

49	Multiplatform application for precision irrigation scheduling in strawberries. *Agricultural Water Management*, **2017**, 183, 194-201	5.9	23
48	Energy cost optimization in pressurized irrigation networks. *Irrigation Science*, **2016**, 34, 1-13	3.1	27
47	A GIS-based decision tool for reducing salinization risks in olive orchards. *Agricultural Water Management*, **2016**, 166, 33-41	5.9	10
46	Incorporating the Irrigation Demand Simultaneity in the Optimal Operation of Pressurized Networks with Several Water Supply Points. *Water Resources Management*, **2016**, 30, 1085-1099	3.7	1
45	Rehabilitating pressurized irrigation networks for an increased energy efficiency. *Agricultural Water Management*, **2016**, 164, 212-222	5.9	8
44	Optimization of Irrigation Scheduling Using Soil Water Balance and Genetic Algorithms. *Water Resources Management*, **2016**, 30, 2815-2830	3.7	28
43	Influence of spatio temporal scales in crop water footprinting and water use management: Evidences from sugar beet production in Northern Spain. *Journal of Cleaner Production*, **2016**, 139, 1485-1495	10.3	16
42	Literature Review on Rebound Effect of Water Saving Measures and Analysis of a Spanish Case Study. *Water Resources Management*, **2015**, 29, 663-678	3.7	124
41	Irrigation Demand Forecasting Using Artificial Neuro-Genetic Networks. *Water Resources Management*, **2015**, 29, 5551-5567	3.7	18
40	Efficient water and energy use in irrigation modernization: Lessons from Spanish case studies. *Agricultural Water Management*, **2015**, 162, 67-77	5.9	58
39	Spatial Estimation of Soil Erosion Risk by Land-cover Change in the Andes OF Southern Ecuador. *Land Degradation and Development*, **2015**, 26, 565-573	4.4	83
38	Toward precision irrigation for intensive strawberry cultivation. *Agricultural Water Management*, **2015**, 151, 43-51	5.9	33
37	Linking water footprint accounting with irrigation management in high value crops. *Journal of Cleaner Production*, **2015**, 87, 594-602	10.3	61
36	Methodology for Detecting Critical Points in Pressurized Irrigation Networks with Multiple Water Supply Points. *Water Resources Management*, **2014**, 28, 1095-1109	3.7	15
35	Critical points: interactions between on-farm irrigation systems and water distribution network. *Irrigation Science*, **2014**, 32, 255-265	3.1	16
34	Effects of modernization and medium term perspectives on water and energy use in irrigation districts. *Agricultural Systems*, **2014**, 131, 56-63	6.1	42
33	New model for sustainable management of pressurized irrigation networks. Application to Bembezar MD irrigation district (Spain). *Science of the Total Environment*, **2014**, 473-474, 1-8	10.2	17
32	Optimum pumping station management for irrigation networks sectoring: Case of Bembezar MI (Spain). *Agricultural Water Management*, **2014**, 144, 150-158	5.9	35

31	Water and energy footprint of irrigated agriculture in the Mediterranean region. *Environmental Research Letters*, **2014**, 9, 124014	6.2	111
30	Assessing the potential of solar energy in pressurized irrigation networks. The case of Bembézar MI irrigation district (Spain). *Spanish Journal of Agricultural Research*, **2014**, 12, 838	1.1	13
29	Optimal Operation of Pressurized Irrigation Networks with Several Supply Sources. *Water Resources Management*, **2013**, 27, 2855-2869	3.7	33
28	Soil Water Balance Modelling Using SWAP: An Application for Irrigation Water Management and Climate Change Adaptation in Citrus. *Outlook on Agriculture*, **2013**, 42, 93-102	2.9	23
27	Impacts of irrigation network sectoring as an energy saving measure on olive grove production. *Journal of Environmental Management*, **2012**, 111, 1-9	7.9	21
26	Detecting Critical Points in On-Demand Irrigation Pressurized Networks – A New Methodology. *Water Resources Management*, **2012**, 26, 1693-1713	3.7	37
25	Development of an integrated computational tool to improve performance of irrigation districts. *Journal of Hydroinformatics*, **2012**, 14, 716-730	2.6	4
24	Modernizing Water Distribution Networks: Lessons from the Bembézar MD Irrigation District, Spain. *Outlook on Agriculture*, **2012**, 41, 229-236	2.9	23
23	Analysis of Virtual Irrigation Water. Application to Water Resources Management in a Mediterranean River Basin. *Water Resources Management*, **2011**, 25, 1635-1651	3.7	42
22	Low energy consumption seasonal calendar for sectoring operation in pressurized irrigation networks. *Irrigation Science*, **2011**, 29, 157-169	3.1	39
21	Climate change impacts on water for irrigating paddy rice in South Korea. *Irrigation and Drainage*, **2011**, 60, 263-273	1.1	30
20	BENCHMARKING IRRIGATION WATER USE IN GOLF COURSES – A CASE STUDY IN SPAIN. *Irrigation and Drainage*, **2011**, 60, 381-392	1.1	9
19	Evaluation of Water and Energy Use in Pressurized Irrigation Networks in Southern Spain. *Journal of Irrigation and Drainage Engineering - ASCE*, **2011**, 137, 644-650	1.1	55
18	Estimating Evapotranspiration by Using Atmometers for Irrigation Scheduling in a Humid Environment. *Journal of Irrigation and Drainage Engineering - ASCE*, **2011**, 137, 685-691	1.1	7
17	The paradox of irrigation scheme modernization: more efficient water use linked to higher energy demand. *Spanish Journal of Agricultural Research*, **2011**, 9, 1000	1.1	56
16	Irrigation Distribution Networks' Vulnerability to Climate Change. *Journal of Irrigation and Drainage Engineering - ASCE*, **2010**, 136, 486-493	1.1	11
15	Development of a water-use strategy for horticulture in England and Wales – a case study. *Journal of Horticultural Science and Biotechnology*, **2010**, 85, 89-93	1.9	28
14	Sustaining Mediterranean Irrigated Agriculture under a Changing Climate. *Outlook on Agriculture*, **2010**, 39, 269-275	2.9	7

13	A preliminary assessment of climate change impacts on sugarcane in Swaziland. *Agricultural Systems*, **2010**, 103, 63-72	6.1	76
12	Developing a Strategy to Improve Irrigation Efficiency in a Temperate Climate: A Case Study in England. *Outlook on Agriculture*, **2009**, 38, 303-309	2.9	21
11	Quality of Service in Irrigation Distribution Networks: Case of Palos de la Frontera Irrigation District (Spain). *Journal of Irrigation and Drainage Engineering - ASCE*, **2009**, 135, 755-762	1.1	17
10	Exploring energy saving scenarios for on-demand pressurised irrigation networks. *Biosystems Engineering*, **2009**, 104, 552-561	4.8	57
9	Benchmarking and multivariate data analysis techniques for improving the efficiency of irrigation districts: An application in spain. *Agricultural Systems*, **2008**, 96, 250-259	6.1	66
8	Developing UK farmers' institutional capacity to defend their water rights and effectively manage limited water resources. *Irrigation and Drainage*, **2008**, 57, 322-331	1.1	23
7	Competing demands for irrigation water: golf and agriculture in Spain. *Irrigation and Drainage*, **2007** , 56, 541-549	1.1	42
6	Climate change impacts on irrigation water requirements in the Guadalquivir river basin in Spain. *Regional Environmental Change*, **2007**, 7, 149-159	4.3	183
5	Model to Forecast Maximum Flows in On-Demand Irrigation Distribution Networks. *Journal of Irrigation and Drainage Engineering - ASCE*, **2007**, 133, 222-231	1.1	26
4	Predicting the impacts of climate change: A case study of paddy irrigation water requirements in Sri Lanka. *Agricultural Water Management*, **2007**, 93, 19-29	5.9	169
3	IGRA. A tool for applying the benchmarking initiative to irrigated areas. *Irrigation and Drainage*, **2005**, 54, 307-319	1.1	5
2	Application of Data Envelopment Analysis to Studies of Irrigation Efficiency in Andalusia. *Journal of Irrigation and Drainage Engineering - ASCE*, **2004**, 130, 175-183	1.1	44
1	Applying benchmarking and data envelopment analysis (DEA) techniques to irrigation districts in Spain. *Irrigation and Drainage*, **2004**, 53, 135-143	1.1	51