Juan Antonio Rodrguez Daz

List of Publications by Year in Descending Order

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 Bembézar 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