

# Juan Antonio Rodrguez Daz

## List of Publications by Citations

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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.

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	Climate change impacts on irrigation water requirements in the Guadalquivir river basin in Spain. <i>Regional Environmental Change</i> , <b>2007</b> , 7, 149-159	4.3	183
83	Predicting the impacts of climate change: A case study of paddy irrigation water requirements in Sri Lanka. <i>Agricultural Water Management</i> , <b>2007</b> , 93, 19-29	5.9	169
82	Literature Review on Rebound Effect of Water Saving Measures and Analysis of a Spanish Case Study. <i>Water Resources Management</i> , <b>2015</b> , 29, 663-678	3.7	124
81	Water and energy footprint of irrigated agriculture in the Mediterranean region. <i>Environmental Research Letters</i> , <b>2014</b> , 9, 124014	6.2	111
80	Spatial Estimation of Soil Erosion Risk by Land-cover Change in the Andes OF Southern Ecuador. <i>Land Degradation and Development</i> , <b>2015</b> , 26, 565-573	4.4	83
79	A preliminary assessment of climate change impacts on sugarcane in Swaziland. <i>Agricultural Systems</i> , <b>2010</b> , 103, 63-72	6.1	76
78	Benchmarking and multivariate data analysis techniques for improving the efficiency of irrigation districts: An application in Spain. <i>Agricultural Systems</i> , <b>2008</b> , 96, 250-259	6.1	66
77	Linking water footprint accounting with irrigation management in high value crops. <i>Journal of Cleaner Production</i> , <b>2015</b> , 87, 594-602	10.3	61
76	Efficient water and energy use in irrigation modernization: Lessons from Spanish case studies. <i>Agricultural Water Management</i> , <b>2015</b> , 162, 67-77	5.9	58
75	Coupling irrigation scheduling with solar energy production in a smart irrigation management system. <i>Journal of Cleaner Production</i> , <b>2018</b> , 175, 670-682	10.3	57
74	Exploring energy saving scenarios for on-demand pressurised irrigation networks. <i>Biosystems Engineering</i> , <b>2009</b> , 104, 552-561	4.8	57
73	The paradox of irrigation scheme modernization: more efficient water use linked to higher energy demand. <i>Spanish Journal of Agricultural Research</i> , <b>2011</b> , 9, 1000	1.1	56
72	Evaluation of Water and Energy Use in Pressurized Irrigation Networks in Southern Spain. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2011</b> , 137, 644-650	1.1	55
71	Applying benchmarking and data envelopment analysis (DEA) techniques to irrigation districts in Spain. <i>Irrigation and Drainage</i> , <b>2004</b> , 53, 135-143	1.1	51
70	Application of Data Envelopment Analysis to Studies of Irrigation Efficiency in Andalusia. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2004</b> , 130, 175-183	1.1	44
69	Effects of modernization and medium term perspectives on water and energy use in irrigation districts. <i>Agricultural Systems</i> , <b>2014</b> , 131, 56-63	6.1	42
68	Analysis of Virtual Irrigation Water. Application to Water Resources Management in a Mediterranean River Basin. <i>Water Resources Management</i> , <b>2011</b> , 25, 1635-1651	3.7	42

67	Competing demands for irrigation water: golf and agriculture in Spain. <i>Irrigation and Drainage</i> , <b>2007</b> , 56, 541-549	1.1	42
66	Low energy consumption seasonal calendar for sectoring operation in pressurized irrigation networks. <i>Irrigation Science</i> , <b>2011</b> , 29, 157-169	3.1	39
65	Optimisation of water demand forecasting by artificial intelligence with short data sets. <i>Biosystems Engineering</i> , <b>2019</b> , 177, 59-66	4.8	39
64	Detecting Critical Points in On-Demand Irrigation Pressurized Networks  A New Methodology. <i>Water Resources Management</i> , <b>2012</b> , 26, 1693-1713	3.7	37
63	Optimum pumping station management for irrigation networks sectoring: Case of Bembezar MI (Spain). <i>Agricultural Water Management</i> , <b>2014</b> , 144, 150-158	5.9	35
62	Toward precision irrigation for intensive strawberry cultivation. <i>Agricultural Water Management</i> , <b>2015</b> , 151, 43-51	5.9	33
61	Optimal Operation of Pressurized Irrigation Networks with Several Supply Sources. <i>Water Resources Management</i> , <b>2013</b> , 27, 2855-2869	3.7	33
60	Modelling impacts of precision irrigation on crop yield and in-field water management. <i>Precision Agriculture</i> , <b>2018</b> , 19, 497-512	5.6	32
59	Climate change impacts on water for irrigating paddy rice in South Korea. <i>Irrigation and Drainage</i> , <b>2011</b> , 60, 263-273	1.1	30
58	Comparing the environmental and economic impacts of on- or off-grid solar photovoltaics with traditional energy sources for rural irrigation systems. <i>Renewable Energy</i> , <b>2019</b> , 140, 895-904	8.1	28
57	Development of a water-use strategy for horticulture in England and Wales  a case study. <i>Journal of Horticultural Science and Biotechnology</i> , <b>2010</b> , 85, 89-93	1.9	28
56	Optimization of Irrigation Scheduling Using Soil Water Balance and Genetic Algorithms. <i>Water Resources Management</i> , <b>2016</b> , 30, 2815-2830	3.7	28
55	Energy cost optimization in pressurized irrigation networks. <i>Irrigation Science</i> , <b>2016</b> , 34, 1-13	3.1	27
54	Model to Forecast Maximum Flows in On-Demand Irrigation Distribution Networks. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2007</b> , 133, 222-231	1.1	26
53	Hydro-power energy recovery in pressurized irrigation networks: A case study of an Irrigation District in the South of Spain. <i>Agricultural Water Management</i> , <b>2018</b> , 204, 17-27	5.9	25
52	Multiplatform application for precision irrigation scheduling in strawberries. <i>Agricultural Water Management</i> , <b>2017</b> , 183, 194-201	5.9	23
51	Soil Water Balance Modelling Using SWAP: An Application for Irrigation Water Management and Climate Change Adaptation in Citrus. <i>Outlook on Agriculture</i> , <b>2013</b> , 42, 93-102	2.9	23
50	Modernizing Water Distribution Networks: Lessons From the Bemb�zar MD Irrigation District, Spain. <i>Outlook on Agriculture</i> , <b>2012</b> , 41, 229-236	2.9	23

49	Developing UK farmers' institutional capacity to defend their water rights and effectively manage limited water resources. <i>Irrigation and Drainage</i> , <b>2008</b> , 57, 322-331	1.1	23
48	Hydropower energy recovery in irrigation networks: Validation of a methodology for flow prediction and pump as turbine selection. <i>Renewable Energy</i> , <b>2020</b> , 147, 1728-1738	8.1	22
47	Impacts of irrigation network sectoring as an energy saving measure on olive grove production. <i>Journal of Environmental Management</i> , <b>2012</b> , 111, 1-9	7.9	21
46	Developing a Strategy to Improve Irrigation Efficiency in a Temperate Climate: A Case Study in England. <i>Outlook on Agriculture</i> , <b>2009</b> , 38, 303-309	2.9	21
45	Prediction of irrigation event occurrence at farm level using optimal decision trees. <i>Computers and Electronics in Agriculture</i> , <b>2019</b> , 157, 173-180	6.5	20
44	Irrigation Demand Forecasting Using Artificial Neuro-Genetic Networks. <i>Water Resources Management</i> , <b>2015</b> , 29, 5551-5567	3.7	18
43	New model for sustainable management of pressurized irrigation networks. Application to Bembézar MD irrigation district (Spain). <i>Science of the Total Environment</i> , <b>2014</b> , 473-474, 1-8	10.2	17
42	Quality of Service in Irrigation Distribution Networks: Case of Palos de la Frontera Irrigation District (Spain). <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2009</b> , 135, 755-762	1.1	17
41	Optimal Design of Pressurized Irrigation Networks to Minimize the Operational Cost under Different Management Scenarios. <i>Water Resources Management</i> , <b>2017</b> , 31, 1995-2010	3.7	16
40	Critical points: interactions between on-farm irrigation systems and water distribution network. <i>Irrigation Science</i> , <b>2014</b> , 32, 255-265	3.1	16
39	Influence of spatio temporal scales in crop water footprinting and water use management: Evidences from sugar beet production in Northern Spain. <i>Journal of Cleaner Production</i> , <b>2016</b> , 139, 1485-1495	10.3	16
38	Methodology for Detecting Critical Points in Pressurized Irrigation Networks with Multiple Water Supply Points. <i>Water Resources Management</i> , <b>2014</b> , 28, 1095-1109	3.7	15
37	Prediction of applied irrigation depths at farm level using artificial intelligence techniques. <i>Agricultural Water Management</i> , <b>2018</b> , 206, 229-240	5.9	14
36	Assessing the potential of solar energy in pressurized irrigation networks. The case of Bembézar MI irrigation district (Spain). <i>Spanish Journal of Agricultural Research</i> , <b>2014</b> , 12, 838	1.1	13
35	Pump-as-Turbine Selection Methodology for Energy Recovery in Irrigation Networks: Minimising the Payback Period. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 149	3	12
34	Assessing telemetry and remote control systems for water users associations in Spain. <i>Agricultural Water Management</i> , <b>2018</b> , 202, 89-98	5.9	12
33	Drip Irrigation Scheduling Using Hydrus 2-D Numerical Model Application for Strawberry Production in South-West Spain. <i>Irrigation and Drainage</i> , <b>2017</b> , 66, 797-807	1.1	12
32	Estimating regional potential for micro-hydropower energy recovery in irrigation networks on a large geographical scale. <i>Renewable Energy</i> , <b>2020</b> , 155, 396-406	8.1	11

31	Irrigation Distribution Networks Vulnerability to Climate Change. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2010</b> , 136, 486-493	1.1	11
30	A GIS-based decision tool for reducing salinization risks in olive orchards. <i>Agricultural Water Management</i> , <b>2016</b> , 166, 33-41	5.9	10
29	Multi-Country Scale Assessment of Available Energy Recovery Potential Using Micro-Hydropower in Drinking, Pressurised Irrigation and Wastewater Networks, Covering Part of the EU. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 899	3	10
28	BENCHMARKING IRRIGATION WATER USE IN GOLF COURSES DA CASE STUDY IN SPAIN. <i>Irrigation and Drainage</i> , <b>2011</b> , 60, 381-392	1.1	9
27	Semi-arranged demand as an energy saving measure for pressurized irrigation networks. <i>Agricultural Water Management</i> , <b>2017</b> , 193, 22-29	5.9	8
26	Rehabilitating pressurized irrigation networks for an increased energy efficiency. <i>Agricultural Water Management</i> , <b>2016</b> , 164, 212-222	5.9	8
25	Sustaining Mediterranean Irrigated Agriculture under a Changing Climate. <i>Outlook on Agriculture</i> , <b>2010</b> , 39, 269-275	2.9	7
24	Estimating Evapotranspiration by Using Atmometers for Irrigation Scheduling in a Humid Environment. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2011</b> , 137, 685-691	1.1	7
23	Performance indicators to assess the implementation of automation in golf courses located in Southeast Spain. <i>Agricultural Water Management</i> , <b>2017</b> , 183, 35-40	5.9	6
22	Middleware to Operate Smart Photovoltaic Irrigation Systems in Real Time. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1508	3	6
21	Energy Recovery Potential in Industrial and Municipal Wastewater Networks Using Micro-Hydropower in Spain. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 691	3	6
20	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. <i>Renewable Energy</i> , <b>2021</b> , 169, 1106-1120	8.1	6
19	Sustainable Water-Energy Nexus towards Developing Countries Water Sector Efficiency. <i>Energies</i> , <b>2021</b> , 14, 3525	3.1	6
18	Forecasting of applied irrigation depths at farm level for energy tariff periods using Coactive neuro-genetic fuzzy system. <i>Agricultural Water Management</i> , <b>2021</b> , 256, 107068	5.9	6
17	Optimal operation of pressurised irrigation distribution systems operating by gravity. <i>Agricultural Water Management</i> , <b>2017</b> , 184, 77-85	5.9	5
16	Multi-Objective Optimization Model Based on Localized Loops for the Rehabilitation of Gravity-fed Pressurized Irrigation Networks. <i>Water Resources Management</i> , <b>2018</b> , 32, 465-480	3.7	5
15	IGRA. A tool for applying the benchmarking initiative to irrigated areas. <i>Irrigation and Drainage</i> , <b>2005</b> , 54, 307-319	1.1	5
14	Potential Energy Recovery Using Micro-Hydropower Technology in Irrigation Networks: Real-World Case Studies in the South of Spain. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 679	0.3	5

13	Open source application for optimum irrigation and fertilization using reclaimed water in olive orchards. <i>Computers and Electronics in Agriculture</i> , <b>2020</b> , 173, 105407	6.5	4
12	Development of an integrated computational tool to improve performance of irrigation districts. <i>Journal of Hydroinformatics</i> , <b>2012</b> , 14, 716-730	2.6	4
11	Comprehensive sizing methodology of smart photovoltaic irrigation systems. <i>Agricultural Water Management</i> , <b>2020</b> , 229, 105888	5.9	4
10	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. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2021</b> , 147, 04021019	2.8	4
9	Generating Hydrants Configurations for Efficient Analysis and Management of Pressurized Irrigation Distribution Systems. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 204	3	3
8	Reducing the Energy Dependency of Water Networks in Irrigation, Public Drinking Water, and Process Industry: REDAWN Project. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 681	0.3	3
7	REUTIVAR: Model for Precision Fertigation Scheduling for Olive Orchards Using Reclaimed Water. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 2632	3	2
6	WaterEnergy Nexus in Irrigated Areas. Lessons From Real Case Studies <b>2018</b> , 41-59		2
5	Water Footprint Accounting for Improving Irrigation Management in Olive Trees <b>2018</b> , 61-72		2
4	Incorporating the Irrigation Demand Simultaneity in the Optimal Operation of Pressurized Networks with Several Water Supply Points. <i>Water Resources Management</i> , <b>2016</b> , 30, 1085-1099	3.7	1
3	Energy Saving Measures in Pressurized Irrigation Networks: A New Challenge for Power Generation. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 1440	0.3	1
2	Spatio-temporal analysis of nitrogen variations in an irrigation distribution network using reclaimed water for irrigating olive trees. <i>Agricultural Water Management</i> , <b>2021</b> , 262, 107353	5.9	0
1	DESIDS: An Integrated Decision Support System for the Planning, Analysis, Management and Rehabilitation of Pressurised Irrigation Distribution Systems. <i>Modelling</i> , <b>2021</b> , 2, 308-326	2.5	0