

Pilar Montesinos

List of Publications by Year in Descending Order

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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.

46
papers

1,249
citations

22
h-index

34
g-index

50
ext. papers

1,457
ext. citations

4.6
avg, IF

4.71
L-index

#	Paper	IF	Citations
46	IoT platform for failure management in water transmission systems. <i>Expert Systems With Applications</i> , 2022 , 199, 116974	7.8	1
45	An ICT-based decision support system for precision irrigation management in outdoor orange and greenhouse tomato crops. <i>Agricultural Water Management</i> , 2022 , 269, 107686	5.9	
44	Verifiable Water Use Inventory Using ICTs in Industrial Agriculture. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2021 , 1-34	0.9	1
43	Open-Source Application for Water Supply System Management: Implementation in a Water Transmission System in Southern Spain. <i>Water (Switzerland)</i> , 2021 , 13, 3652	3	0
42	Trends and Challenges in Irrigation Scheduling in the Semi-Arid Area of Spain. <i>Water (Switzerland)</i> , 2020 , 12, 785	3	24
41	Design and Implementation of a Pressure Monitoring System Based on IoT for Water Supply Networks. <i>Sensors</i> , 2020 , 20,	3.8	11
40	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> , 2019 , 140, 895-904	8.1	28
39	Middleware to Operate Smart Photovoltaic Irrigation Systems in Real Time. <i>Water (Switzerland)</i> , 2019 , 11, 1508	3	6
38	Prediction of irrigation event occurrence at farm level using optimal decision trees. <i>Computers and Electronics in Agriculture</i> , 2019 , 157, 173-180	6.5	20
37	Optimisation of water demand forecasting by artificial intelligence with short data sets. <i>Biosystems Engineering</i> , 2019 , 177, 59-66	4.8	39
36	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> , 2018 , 204, 17-27	5.9	25
35	Coupling irrigation scheduling with solar energy production in a smart irrigation management system. <i>Journal of Cleaner Production</i> , 2018 , 175, 670-682	10.3	57
34	Prediction of applied irrigation depths at farm level using artificial intelligence techniques. <i>Agricultural Water Management</i> , 2018 , 206, 229-240	5.9	14
33	Optimal Design of Pressurized Irrigation Networks to Minimize the Operational Cost under Different Management Scenarios. <i>Water Resources Management</i> , 2017 , 31, 1995-2010	3.7	16
32	Semi-arranged demand as an energy saving measure for pressurized irrigation networks. <i>Agricultural Water Management</i> , 2017 , 193, 22-29	5.9	8
31	Drip Irrigation Scheduling Using Hydrus 2-D Numerical Model Application for Strawberry Production in South-West Spain. <i>Irrigation and Drainage</i> , 2017 , 66, 797-807	1.1	12
30	Multiplatform application for precision irrigation scheduling in strawberries. <i>Agricultural Water Management</i> , 2017 , 183, 194-201	5.9	23

29	Multi-Objective Spatial Optimization: Sustainable Land Use Allocation at Sub-Regional Scale. <i>Sustainability</i> , 2017 , 9, 927	3.6	14
28	Energy cost optimization in pressurized irrigation networks. <i>Irrigation Science</i> , 2016 , 34, 1-13	3.1	27
27	Incorporating the Irrigation Demand Simultaneity in the Optimal Operation of Pressurized Networks with Several Water Supply Points. <i>Water Resources Management</i> , 2016 , 30, 1085-1099	3.7	1
26	Rehabilitating pressurized irrigation networks for an increased energy efficiency. <i>Agricultural Water Management</i> , 2016 , 164, 212-222	5.9	8
25	Optimization of Irrigation Scheduling Using Soil Water Balance and Genetic Algorithms. <i>Water Resources Management</i> , 2016 , 30, 2815-2830	3.7	28
24	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> , 2016 , 139, 1485-1495	10.3	16
23	Literature Review on Rebound Effect of Water Saving Measures and Analysis of a Spanish Case Study. <i>Water Resources Management</i> , 2015 , 29, 663-678	3.7	124
22	Irrigation Demand Forecasting Using Artificial Neuro-Genetic Networks. <i>Water Resources Management</i> , 2015 , 29, 5551-5567	3.7	18
21	Spatial Estimation of Soil Erosion Risk by Land-cover Change in the Andes OF Southern Ecuador. <i>Land Degradation and Development</i> , 2015 , 26, 565-573	4.4	83
20	Toward precision irrigation for intensive strawberry cultivation. <i>Agricultural Water Management</i> , 2015 , 151, 43-51	5.9	33
19	Linking water footprint accounting with irrigation management in high value crops. <i>Journal of Cleaner Production</i> , 2015 , 87, 594-602	10.3	61
18	Methodology for Detecting Critical Points in Pressurized Irrigation Networks with Multiple Water Supply Points. <i>Water Resources Management</i> , 2014 , 28, 1095-1109	3.7	15
17	Critical points: interactions between on-farm irrigation systems and water distribution network. <i>Irrigation Science</i> , 2014 , 32, 255-265	3.1	16
16	Effects of modernization and medium term perspectives on water and energy use in irrigation districts. <i>Agricultural Systems</i> , 2014 , 131, 56-63	6.1	42
15	New model for sustainable management of pressurized irrigation networks. Application to Bemb�zar MD irrigation district (Spain). <i>Science of the Total Environment</i> , 2014 , 473-474, 1-8	10.2	17
14	Assessing the potential of solar energy in pressurized irrigation networks. The case of Bemb�zar MI irrigation district (Spain). <i>Spanish Journal of Agricultural Research</i> , 2014 , 12, 838	1.1	13
13	Optimal Operation of Pressurized Irrigation Networks with Several Supply Sources. <i>Water Resources Management</i> , 2013 , 27, 2855-2869	3.7	33
12	Impacts of irrigation network sectoring as an energy saving measure on olive grove production. <i>Journal of Environmental Management</i> , 2012 , 111, 1-9	7.9	21

11	Detecting Critical Points in On-Demand Irrigation Pressurized Networks [A New Methodology]. <i>Water Resources Management</i> , 2012 , 26, 1693-1713	3.7	37
10	Modernizing Water Distribution Networks: Lessons from the Bemb�zar MD Irrigation District, Spain. <i>Outlook on Agriculture</i> , 2012 , 41, 229-236	2.9	23
9	Analysis of Virtual Irrigation Water. Application to Water Resources Management in a Mediterranean River Basin. <i>Water Resources Management</i> , 2011 , 25, 1635-1651	3.7	42
8	Low energy consumption seasonal calendar for sectoring operation in pressurized irrigation networks. <i>Irrigation Science</i> , 2011 , 29, 157-169	3.1	39
7	The paradox of irrigation scheme modernization: more efficient water use linked to higher energy demand. <i>Spanish Journal of Agricultural Research</i> , 2011 , 9, 1000	1.1	56
6	Exploring energy saving scenarios for on-demand pressurised irrigation networks. <i>Biosystems Engineering</i> , 2009 , 104, 552-561	4.8	57
5	Linear regressions and neural approaches to water demand forecasting in irrigation districts with telemetry systems. <i>Biosystems Engineering</i> , 2007 , 97, 283-293	4.8	63
4	Application of genetic algorithms for optimal seasonal furrow irrigation. <i>Journal of Hydroinformatics</i> , 2002 , 4, 145-156	2.6	3
3	Seasonal furrow irrigation model with genetic algorithms (OPTIMEC). <i>Agricultural Water Management</i> , 2001 , 52, 1-16	5.9	16
2	Water distribution network optimization using a modified genetic algorithm. <i>Water Resources Research</i> , 1999 , 35, 3467-3473	5.4	54
1	Optimizaci�n de redes de distribuci�n de agua utilizando un algoritmo gen�tico. <i>Ingenier�a Del Agua</i> , 1997 , 4,	0.7	1