

Enrique Playán

List of Publications by Year in descending order

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79
papers

2,743
citations

186265
28
h-index

197818
49
g-index

79
all docs

79
docs citations

79
times ranked

1495
citing authors

#	ARTICLE	IF	CITATIONS
1	Normalized pressure: a key variable to assess zebra mussel infestation in pressurized irrigation networks. <i>Agricultural Water Management</i> , 2022, 260, 107300.	5.6	1
2	Effect of micro-dams on water flow characteristics in furrow irrigation. <i>Irrigation Science</i> , 2020, 38, 307-319.	2.8	10
3	A 2D curvilinear coupled surface–subsurface flow model for simulation of basin/border irrigation: theory, validation and application. <i>Irrigation Science</i> , 2019, 37, 151-168.	2.8	7
4	Low-pressure sprinkler irrigation in maize: Differences in water distribution above and below the crop canopy. <i>Agricultural Water Management</i> , 2018, 203, 353-365.	5.6	27
5	Assessing zebra mussel colonization of collective pressurized irrigation networks through pressure measurements and simulations. <i>Agricultural Water Management</i> , 2018, 204, 301-313.	5.6	2
6	Assessing telemetry and remote control systems for water users associations in Spain. <i>Agricultural Water Management</i> , 2018, 202, 89-98.	5.6	16
7	Irrigation Governance in Developing Countries: Current Problems and Solutions. <i>Water (Switzerland)</i> , 2018, 10, 1118.	2.7	20
8	A simulation tool for advanced design and management of collective sprinkler-irrigated areas: a study case. <i>Irrigation Science</i> , 2017, 35, 327-345.	2.8	7
9	Assessing low-pressure solid-set sprinkler irrigation in maize. <i>Agricultural Water Management</i> , 2017, 191, 37-49.	5.6	27
10	A modified particle tracking velocimetry technique to characterize sprinkler irrigation drops. <i>Irrigation Science</i> , 2017, 35, 515-531.	2.8	14
11	Closure to “Discharge Coefficient Analysis for Triangular Sharp-Crested Weirs Using Low-Speed Photographic Technique” by C. Bautista-Capetillo, O. Robles, H. Jnez-Ferreira, and E. Playn. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2015, 141, 07014067.	1.0	1
12	Effect of the start–stop cycle of center-pivot towers on irrigation performance: Experiments and simulations. <i>Agricultural Water Management</i> , 2015, 147, 163-174.	5.6	18
13	Discharge Coefficient Analysis for Triangular Sharp-Crested Weirs Using Low-Speed Photographic Technique. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2014, 140, .	1.0	14
14	A particle tracking velocimetry technique for drop characterization in agricultural sprinklers. <i>Irrigation Science</i> , 2014, 32, 437-447.	2.8	22
15	Solid-Set Sprinkler Irrigation Controllers Driven by Simulation Models: Opportunities and Bottlenecks. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2014, 140, .	1.0	12
16	Surface fertigation: a review, gaps and needs. <i>Spanish Journal of Agricultural Research</i> , 2014, 12, 820.	0.6	25
17	Field test of an automatic controller for solid-set sprinkler irrigation. <i>Irrigation Science</i> , 2013, 31, 1237-1249.	2.8	10
18	Optimum Design of Alternate and Conventional Furrow Fertigation to Minimize Nitrate Loss. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2013, 139, 911-921.	1.0	25

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19	Simulation of 1D surface and 2D subsurface water flow and nitrate transport in alternate and conventional furrow fertigation. <i>Irrigation Science</i> , 2013, 31, 301-316.	2.8	41
20	Initial Drop Velocity in a Fixed Spray Plate Sprinkler. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2013, 139, 521-531.	1.0	13
21	Limitations to adopting regulated deficit irrigation in stone fruit orchards: a case study. <i>Spanish Journal of Agricultural Research</i> , 2013, 11, 529.	0.6	6
22	Software for on-farm irrigation scheduling of stone fruit orchards under water limitations. <i>Computers and Electronics in Agriculture</i> , 2012, 88, 52-62.	7.7	13
23	Kinetic energy in sprinkler irrigation: different sources of drop diameter and velocity. <i>Irrigation Science</i> , 2012, 30, 29-41.	2.8	24
24	Distribution and loss of water and nitrate under alternate and conventional furrow fertigation. <i>Spanish Journal of Agricultural Research</i> , 2012, 10, 849.	0.6	11
25	Seasonal on-farm irrigation performance in the Ebro basin (Spain): Crops and irrigation systems. <i>Agricultural Water Management</i> , 2011, 98, 577-587.	5.6	50
26	Farmers' scheduling patterns in on-demand pressurized irrigation. <i>Agricultural Water Management</i> , 2011, 102, 86-96.	5.6	17
27	Irrigation performance in private urban landscapes: A study case in Zaragoza (Spain). <i>Landscape and Urban Planning</i> , 2011, 100, 302-311.	7.5	72
28	Assessing alternate furrow strategies for potato at the Cherfech irrigation district of Tunisia. <i>Biosystems Engineering</i> , 2011, 108, 154-163.	4.3	21
29	Application of a topographic 3D scanner to irrigation research. <i>Irrigation Science</i> , 2010, 28, 245-256.	2.8	14
30	Dynamic model for water application using centre pivot irrigation. <i>Biosystems Engineering</i> , 2010, 105, 476-485.	4.3	18
31	Closure to "Contribution of Evapotranspiration Reduction during Sprinkler Irrigation to Application Efficiency" by A. Martínez-Cob, E. Playán, N. Zapata, J. Caverro, E. T. Medina, and M. Puig. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2010, 136, 671-672.	1.0	3
32	Irrigation Modernization in Spain: Effects on Water Quantity and Quality – A Conceptual Approach. <i>International Journal of Water Resources Development</i> , 2010, 26, 265-282.	2.0	45
33	Irrigation modernization and water conservation in Spain: The case of Riegos del Alto Aragón. <i>Agricultural Water Management</i> , 2010, 97, 1663-1675.	5.6	158
34	Day and night time sprinkler irrigated tomato: Irrigation performance and crop yield. <i>Biosystems Engineering</i> , 2010, 107, 25-35.	4.3	25
35	Simulation of sprinkler irrigation water uniformity impact on corn yield. <i>Spanish Journal of Agricultural Research</i> , 2010, 8, 143.	0.6	13
36	Simulation of a Collective Solid-Set Sprinkler Irrigation Controller for Optimum Water Productivity. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2009, 135, 13-24.	1.0	32

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37	A photographic method for drop characterization in agricultural sprinklers. Irrigation Science, 2009, 27, 307-317.	2.8	58
38	Fertigation in Furrows and Level Furrow Systems. I: Model Description and Numerical Tests. Journal of Irrigation and Drainage Engineering - ASCE, 2009, 135, 401-412.	1.0	26
39	Fertigation in Furrows and Level Furrow Systems. II: Field Experiments, Model Calibration, and Practical Applications. Journal of Irrigation and Drainage Engineering - ASCE, 2009, 135, 413-420.	1.0	19
40	Overland water and salt flows in a set of rice paddies. Agricultural Water Management, 2008, 95, 645-658.	5.6	20
41	Contribution of Evapotranspiration Reduction during Sprinkler Irrigation to Application Efficiency. Journal of Irrigation and Drainage Engineering - ASCE, 2008, 134, 745-756.	1.0	58
42	Instruments for Water Quantity and Quality Management in the Agriculture of Aragon. International Journal of Water Resources Development, 2007, 23, 147-164.	2.0	13
43	From on-farm solid-set sprinkler irrigation design to collective irrigation network design in windy areas. Agricultural Water Management, 2007, 87, 187-199.	5.6	39
44	A database program for enhancing irrigation district management in the Ebro Valley (Spain). Agricultural Water Management, 2007, 87, 209-216.	5.6	26
45	Modernization and optimization of irrigation systems to increase water productivity. Agricultural Water Management, 2006, 80, 100-116.	5.6	317
46	Assessing sprinkler irrigation uniformity using a ballistic simulation model. Agricultural Water Management, 2006, 84, 89-100.	5.6	86
47	Model for the Simulation of Water Flows in Irrigation Districts. II: Application. Journal of Irrigation and Drainage Engineering - ASCE, 2006, 132, 322-331.	1.0	8
48	Model for the Simulation of Water Flows in Irrigation Districts. I: Description. Journal of Irrigation and Drainage Engineering - ASCE, 2006, 132, 310-321.	1.0	13
49	Irrigation evaluation and simulation at the Irrigation District V of Bardenas (Spain). Agricultural Water Management, 2005, 73, 223-245.	5.6	52
50	Day and night wind drift and evaporation losses in sprinkler solid-sets and moving laterals. Agricultural Water Management, 2005, 76, 139-159.	5.6	142
51	Coupled Crop and Solid Set Sprinkler Simulation Model. II: Model Application. Journal of Irrigation and Drainage Engineering - ASCE, 2004, 130, 511-519.	1.0	28
52	Coupled Crop and Solid Set Sprinkler Simulation Model. I: Model Development. Journal of Irrigation and Drainage Engineering - ASCE, 2004, 130, 499-510.	1.0	35
53	Simulation Model for Level Furrows. II: Description, Validation, and Application. Journal of Irrigation and Drainage Engineering - ASCE, 2004, 130, 113-121.	1.0	7
54	Simulation Model for Level Furrows. I: Analysis of Field Experiments. Journal of Irrigation and Drainage Engineering - ASCE, 2004, 130, 106-112.	1.0	13

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55	Characterizing pivot sprinklers using an experimental irrigation machine. Agricultural Water Management, 2004, 70, 177-193.	5.6	31
56	Wind effects on solid set sprinkler irrigation depth and yield of maize (Zea mays). Irrigation Science, 2003, 22, 67-77.	2.8	83
57	Analysis of an irrigation district in northeastern Spain. Agricultural Water Management, 2003, 61, 75-92.	5.6	61
58	Analysis of an irrigation district in northeastern Spain. Agricultural Water Management, 2003, 61, 93-109.	5.6	54
59	Field Verification of Two-Dimensional Surface Irrigation Model. Journal of Irrigation and Drainage Engineering - ASCE, 2003, 129, 402-411.	1.0	19
60	Performance of Rotating Spray Plate Sprinklers in Indoor Experiments. Journal of Irrigation and Drainage Engineering - ASCE, 2003, 129, 376-380.	1.0	37
61	Numerical Modeling of Basin Irrigation with an Upwind Scheme. Journal of Irrigation and Drainage Engineering - ASCE, 2002, 128, 212-223.	1.0	24
62	Simulation of Maize Grain Yield Variability within a Surface-Irrigated Field. Agronomy Journal, 2001, 93, 773-782.	1.8	19
63	Comparison of Fixed and Rotating Spray Plate Sprinklers. Journal of Irrigation and Drainage Engineering - ASCE, 2001, 127, 224-233.	1.0	80
64	Elevation and infiltration in a level basin. II. Impact on soil water and corn yield. Irrigation Science, 2000, 19, 165-173.	2.8	13
65	Solute Transport Modeling in Overland Flow Applied to Fertigation. Journal of Irrigation and Drainage Engineering - ASCE, 2000, 126, 33-40.	1.0	46
66	Water Reuse in Sequential Basin Irrigation. Journal of Irrigation and Drainage Engineering - ASCE, 2000, 126, 362-370.	1.0	7
67	Simulating Elevation and Infiltration in Level-Basin Irrigation. Journal of Irrigation and Drainage Engineering - ASCE, 2000, 126, 78-84.	1.0	23
68	A case study for irrigation modernisation. Agricultural Water Management, 2000, 42, 313-334.	5.6	53
69	A case study for irrigation modernisation: II. Agricultural Water Management, 2000, 42, 335-354.	5.6	54
70	Salinity-Grain Yield Response Functions of Barley Cultivars Assessed with a Drip-Injection Irrigation System. Soil Science Society of America Journal, 2000, 64, 359-365.	2.2	25
71	A New Drip-Injection Irrigation System for Crop Salt Tolerance Evaluation. Soil Science Society of America Journal, 1999, 63, 1397-1403.	2.2	8
72	Yield-rainfall relationships in cereal cropping systems in the Ebro river valley of Spain. European Journal of Agronomy, 1998, 8, 239-248.	4.1	92

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73	Water storage in soils during the fallow: prediction of the effects of rainfall pattern and soil conditions in the Ebro valley of Spain. Agricultural Water Management, 1998, 36, 213-231.	5.6	13
74	Radial Flow Modeling for Estimating Level-Basin Irrigation Parameters. Journal of Irrigation and Drainage Engineering - ASCE, 1997, 123, 229-237.	1.0	8
75	Border fertigation: field experiments and a simple model. Irrigation Science, 1997, 17, 163-171.	2.8	41
76	Characterizing microtopographical effects on level-basin irrigation performance. Agricultural Water Management, 1996, 29, 129-145.	5.6	24
77	Modeling Microtopography in Basin Irrigation. Journal of Irrigation and Drainage Engineering - ASCE, 1996, 122, 339-347.	1.0	43
78	Two-Dimensional Simulation of Basin Irrigation. I: Theory. Journal of Irrigation and Drainage Engineering - ASCE, 1994, 120, 837-856.	1.0	60
79	Two-Dimensional Simulation of Basin Irrigation. II: Applications. Journal of Irrigation and Drainage Engineering - ASCE, 1994, 120, 857-870.	1.0	31