

Jaume Puig-BarguÃ©s

List of Publications by Year in descending order

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69
papers

1,121
citations

394421

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30
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69
docs citations

69
times ranked

629
citing authors

#	ARTICLE	IF	CITATIONS
1	An improved design of irrigation centrifugal filter for separating water and fine sediment: appropriately increase head loss for high efficiency. <i>Irrigation Science</i> , 2022, 40, 151-161.	2.8	3
2	Effect of type of emitter self-cleaning mechanism and its structure on the performance of drip irrigation system using effluent of rainbow trout fish. <i>Irrigation Science</i> , 2022, 40, 163-175.	2.8	3
3	Effect of different filter media on emitter clogging using reclaimed effluents. <i>Agricultural Water Management</i> , 2022, 266, 107591.	5.6	3
4	Physical, chemical and biological emitter clogging behaviors in drip irrigation systems using high-sediment loaded water. <i>Agricultural Water Management</i> , 2022, 270, 107738.	5.6	16
5	Environmental Assessment of Underdrain Designs for Granular Media Filters in Drip Irrigation Systems. <i>Agriculture (Switzerland)</i> , 2022, 12, 810.	3.1	2
6	Performance of disc, conventional and automatic screen filters under rainbow trout fish farm effluent for drip irrigation system. <i>Environmental Science and Pollution Research</i> , 2022, 29, 80624-80636.	5.3	2
7	Clogging rate of pressure compensating emitters in irrigation with rainbow trout fish farm effluent. <i>Irrigation Science</i> , 2021, 39, 223-233.	2.8	6
8	Assessment of Microirrigation Field Distribution Uniformity Procedures for Pressure-Compensating Emitters under Potential Clogging Conditions. <i>Transactions of the ASABE</i> , 2021, 64, 1063-1071.	1.1	6
9	Effects of coupling multiple factors on CaCO ₃ fouling in agricultural saline water distribution systems. <i>Agricultural Water Management</i> , 2021, 248, 106757.	5.6	2
10	Media filter fouling assessment using optical coherence tomography: New methodology. <i>Biosystems Engineering</i> , 2021, 204, 26-35.	4.3	4
11	Assessment of Different Pressure Drop-Flow Rate Equations in a Pressurized Porous Media Filter for Irrigation Systems. <i>Water (Switzerland)</i> , 2021, 13, 2179.	2.7	6
12	Horizontal roughing filter for reducing emitter composite clogging in drip irrigation systems using high sediment water. <i>Agricultural Water Management</i> , 2021, 258, 107215.	5.6	3
13	Effect of magnetic field on calcium - silica fouling and interactions in brackish water distribution systems. <i>Science of the Total Environment</i> , 2021, 798, 148900.	8.0	10
14	Effect of a combined filtration system and drip irrigation laterals on quality of rainbow trout farm effluent. <i>Irrigation Science</i> , 2020, 38, 131-145.	2.8	4
15	Numerical study of the effects of pod, wand and spike type underdrain systems in pressurised sand filters. <i>Biosystems Engineering</i> , 2020, 200, 338-352.	4.3	6
16	Prediction of outlet dissolved oxygen in micro-irrigation sand media filters using a Gaussian process regression. <i>Biosystems Engineering</i> , 2020, 195, 198-207.	4.3	16
17	Modeling Approaches for Determining Dripline Depth and Irrigation Frequency of Subsurface Drip Irrigated Rice on Different Soil Textures. <i>Water (Switzerland)</i> , 2020, 12, 1724.	2.7	23
18	Effect of wand-type underdrains on the hydraulic performance of pressurised sand media filters. <i>Biosystems Engineering</i> , 2020, 192, 176-187.	4.3	8

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19	A new predictive model for the outlet turbidity in micro-irrigation sand filters fed with effluents using Gaussian process regression. Computers and Electronics in Agriculture, 2020, 170, 105292.	7.7	7
20	Increasing phosphorus availability by reducing clogging in drip fertigation systems. Journal of Cleaner Production, 2020, 262, 121319.	9.3	26
21	Using phosphate fertilizer to reduce emitter clogging of drip fertigation systems with high salinity water. Journal of Environmental Management, 2020, 263, 110366.	7.8	34
22	Effect of different sand filter underdrain designs on emitter clogging using reclaimed effluents. Agricultural Water Management, 2019, 223, 105683.	5.6	18
23	Assessment of Field Water Uniformity Distribution in a Microirrigation System using a SCADA System. Water (Switzerland), 2019, 11, 1346.	2.7	5
24	Effect of underdrain design, media height and filtration velocity on the performance of microirrigation sand filters using reclaimed effluents. Biosystems Engineering, 2019, 187, 292-304.	4.3	22
25	Using an anti-clogging relative index (CRI) to assess emitters rapidly for drip irrigation systems with multiple low-quality water sources. Agricultural Water Management, 2019, 221, 270-278.	5.6	13
26	Efecto de la altura de medio filtrante y la velocidad de filtración en el comportamiento de distintos modelos de filtro de arena en instalaciones de riego por goteo con aguas regeneradas. , 2019, , .		0
27	Efecto de diferentes diseños de drenajes de filtros de arena en la obtención de goteros utilizando aguas residuales regeneradas. , 2019, , .		0
28	Environmental assessment of underdrain designs for a sand media filter. Biosystems Engineering, 2018, 167, 126-136.	4.3	8
29	Pressure drop modelling in sand filters in micro-irrigation using gradient boosted regression trees. Biosystems Engineering, 2018, 171, 41-51.	4.3	19
30	Modeling pressure drop produced by different filtering media in microirrigation sand filters using the hybrid ABC-MARS-based approach, MLP neural network and M5 model tree. Computers and Electronics in Agriculture, 2017, 139, 65-74.	7.7	17
31	Development of a new underdrain for improving the efficiency of microirrigation sand media filters. Agricultural Water Management, 2017, 179, 296-305.	5.6	22
32	Simplified Equations to Estimate Flushline Diameter for Subsurface Drip Irrigation Systems. Transactions of the ASABE, 2017, 60, 185-192.	1.1	3
33	A new predictive model for the filtered volume and outlet parameters in micro-irrigation sand filters fed with effluents using the hybrid PSO-SVM-based approach. Computers and Electronics in Agriculture, 2016, 125, 74-80.	7.7	20
34	Effects of the underdrain design on the pressure drop in sand filters. Biosystems Engineering, 2016, 150, 1-9.	4.3	12
35	Pressure drop across sand and recycled glass media used in micro irrigation filters. Biosystems Engineering, 2015, 137, 55-63.	4.3	35
36	Reducing energy requirements for sand filtration in microirrigation: Improving the underdrain and packing. Biosystems Engineering, 2015, 140, 67-78.	4.3	18

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37	Un modelo para diseñar aprendizajes mediante proyectos multidisciplinares. Revista De Docencia Universitaria, 2015, 13, 73.	0.3	3
38	The efficiency of various chemical solutions to clean reverse osmosis membranes processing swine wastewater. Water Quality Research Journal of Canada, 2014, 49, 295-306.	2.7	4
39	Fouling of Reverse Osmosis Membranes Processing Swine Wastewater Pretreated by Mechanical Separation and Aerobic Biofiltration. Separation Science and Technology, 2014, 49, 1298-1308.	2.5	8
40	New mathematical model for computing head loss across sand media filter for microirrigation systems. Irrigation Science, 2013, 31, 343-349.	2.8	14
41	Drip-Irrigator: Computer software to simulate soil wetting patterns under surface drip irrigation. Computers and Electronics in Agriculture, 2013, 98, 183-192.	7.7	36
42	Artificial neural networks vs. Gene Expression Programming for estimating outlet dissolved oxygen in micro-irrigation sand filters fed with effluents. Computers and Electronics in Agriculture, 2013, 99, 176-185.	7.7	69
43	An experimental and analytical study to analyze hydraulic behavior of nozzle-type underdrains in porous media filters. Agricultural Water Management, 2013, 126, 64-74.	5.6	17
44	Soil water and nitrate distribution under drip irrigated corn receiving pig slurry. Agricultural Water Management, 2013, 120, 11-22.	5.6	25
45	Effect of Flushing Velocity and Flushing Duration on Sediment Transport in Microirrigation Driplines. Transactions of the ASABE, 2013, , 1821-1828.	1.1	7
46	Effect of flushing velocity and elapsed time on sediment transport in driplines. , 2013, , .		0
47	An approach to costs and energy consumption in private urban Spanish Mediterranean landscapes from a simplified model in sprinkle irrigation. Spanish Journal of Agricultural Research, 2013, 11, 244.	0.6	3
48	Effectiveness of sand media filters for removing turbidity and recovering dissolved oxygen from a reclaimed effluent used for micro-irrigation. Agricultural Water Management, 2012, 111, 27-33.	5.6	49
49	Prediction by neural networks of filtered volume and outlet parameters in micro-irrigation sand filters using effluents. Biosystems Engineering, 2012, 111, 126-132.	4.3	16
50	Using Computational Fluid Dynamics to Predict Head Losses in the Auxiliary Elements of a Microirrigation Sand Filter. Transactions of the ASABE, 2011, 54, 1367-1376.	1.1	23
51	Irrigation performance and gross water productivity in furrow-irrigated ornamental tree production. Spanish Journal of Agricultural Research, 2011, 9, 627.	0.6	3
52	Private micro-irrigation costs using reclaimed water. Spanish Journal of Agricultural Research, 2011, 9, 1120.	0.6	4
53	Cómo adquirir competencias específicas y transversales a partir de los mass media. Una aplicación original de app en la udg. Vivat Academia, 2011, .	0.2	1
54	Assessment of head loss equations developed with dimensional analysis for micro irrigation filters using effluents. Biosystems Engineering, 2010, 106, 521-526.	4.3	27

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55	Effect of Dripline Flushing on Subsurface Drip Irrigation Systems. Transactions of the ASABE, 2010, 53, 147-155.	1.1	22
56	Preliminary planning for reclaimed water reuse for agricultural irrigation in the province of Girona, Catalonia (Spain). Desalination and Water Treatment, 2010, 22, 47-55.	1.0	7
57	Effect of flushing frequency on emitter clogging in microirrigation with effluents. Agricultural Water Management, 2010, 97, 883-891.	5.6	63
58	Dripline Flushing Velocities for SDI. , 2009, , .		1
59	Irrigation Performance and Water Productivity in Ornamental Plant Production in Girona (Spain). , 2009, , .		0
60	Performance and backwashing efficiency of disc and screen filters in microirrigation systems. Biosystems Engineering, 2009, 103, 35-42.	4.3	29
61	Effect of filter, emitter and location on clogging when using effluents. Agricultural Water Management, 2009, 96, 67-79.	5.6	97
62	Monitoring soil water status for micro-irrigation management versus modelling approach. Biosystems Engineering, 2008, 100, 286-296.	4.3	45
63	Definition of a SCADA system for a microirrigation network with effluents. Computers and Electronics in Agriculture, 2008, 64, 338-342.	7.7	20
64	Filter and emitter performance of micro-irrigation systems using secondary and tertiary effluents. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	1
65	Development of Equations for calculating the Head Loss in Effluent Filtration in Microirrigation Systems using Dimensional Analysis. Biosystems Engineering, 2005, 92, 383-390.	4.3	35
66	FILTRATION OF EFFLUENTS FOR MICROIRRIGATION SYSTEMS. Transactions of the American Society of Agricultural Engineers, 2005, 48, 969-978.	0.9	21
67	Hydraulic performance of drip irrigation subunits using WWTP effluents. Agricultural Water Management, 2005, 77, 249-262.	5.6	50
68	Effluent particle removal by microirrigation system filters. Spanish Journal of Agricultural Research, 2005, 3, 182.	0.6	15
69	Efficiency of EDTA, SDS and NaOH solutions to clean RO membranes processing swine wastewater. Separation Science and Technology, 0, , 150629134718002.	2.5	4