

Jaume Puig-BarguÃ©s

List of Publications by Year in descending order

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69
papers

1,121
citations

394421

19
h-index

454955

30
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69
all docs

69
docs citations

69
times ranked

629
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of filter, emitter and location on clogging when using effluents. <i>Agricultural Water Management</i> , 2009, 96, 67-79.	5.6	97
2	Artificial neural networks vs. Gene Expression Programming for estimating outlet dissolved oxygen in micro-irrigation sand filters fed with effluents. <i>Computers and Electronics in Agriculture</i> , 2013, 99, 176-185.	7.7	69
3	Effect of flushing frequency on emitter clogging in microirrigation with effluents. <i>Agricultural Water Management</i> , 2010, 97, 883-891.	5.6	63
4	Hydraulic performance of drip irrigation subunits using WWTP effluents. <i>Agricultural Water Management</i> , 2005, 77, 249-262.	5.6	50
5	Effectiveness of sand media filters for removing turbidity and recovering dissolved oxygen from a reclaimed effluent used for micro-irrigation. <i>Agricultural Water Management</i> , 2012, 111, 27-33.	5.6	49
6	Monitoring soil water status for micro-irrigation management versus modelling approach. <i>Biosystems Engineering</i> , 2008, 100, 286-296.	4.3	45
7	Drip-Irrigator: Computer software to simulate soil wetting patterns under surface drip irrigation. <i>Computers and Electronics in Agriculture</i> , 2013, 98, 183-192.	7.7	36
8	Development of Equations for calculating the Head Loss in Effluent Filtration in Microirrigation Systems using Dimensional Analysis. <i>Biosystems Engineering</i> , 2005, 92, 383-390.	4.3	35
9	Pressure drop across sand and recycled glass media used in micro irrigation filters. <i>Biosystems Engineering</i> , 2015, 137, 55-63.	4.3	35
10	Using phosphate fertilizer to reduce emitter clogging of drip fertigation systems with high salinity water. <i>Journal of Environmental Management</i> , 2020, 263, 110366.	7.8	34
11	Performance and backwashing efficiency of disc and screen filters in microirrigation systems. <i>Biosystems Engineering</i> , 2009, 103, 35-42.	4.3	29
12	Assessment of head loss equations developed with dimensional analysis for micro irrigation filters using effluents. <i>Biosystems Engineering</i> , 2010, 106, 521-526.	4.3	27
13	Increasing phosphorus availability by reducing clogging in drip fertigation systems. <i>Journal of Cleaner Production</i> , 2020, 262, 121319.	9.3	26
14	Soil water and nitrate distribution under drip irrigated corn receiving pig slurry. <i>Agricultural Water Management</i> , 2013, 120, 11-22.	5.6	25
15	Using Computational Fluid Dynamics to Predict Head Losses in the Auxiliary Elements of a Microirrigation Sand Filter. <i>Transactions of the ASABE</i> , 2011, 54, 1367-1376.	1.1	23
16	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
17	Effect of Dripline Flushing on Subsurface Drip Irrigation Systems. <i>Transactions of the ASABE</i> , 2010, 53, 147-155.	1.1	22
18	Development of a new underdrain for improving the efficiency of microirrigation sand media filters. <i>Agricultural Water Management</i> , 2017, 179, 296-305.	5.6	22

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19	Effect of underdrain design, media height and filtration velocity on the performance of microirrigation sand filters using reclaimed effluents. <i>Biosystems Engineering</i> , 2019, 187, 292-304.	4.3	22
20	FILTRATION OF EFFLUENTS FOR MICROIRRIGATION SYSTEMS. <i>Transactions of the American Society of Agricultural Engineers</i> , 2005, 48, 969-978.	0.9	21
21	Definition of a SCADA system for a microirrigation network with effluents. <i>Computers and Electronics in Agriculture</i> , 2008, 64, 338-342.	7.7	20
22	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. <i>Computers and Electronics in Agriculture</i> , 2016, 125, 74-80.	7.7	20
23	Pressure drop modelling in sand filters in micro-irrigation using gradient boosted regression trees. <i>Biosystems Engineering</i> , 2018, 171, 41-51.	4.3	19
24	Reducing energy requirements for sand filtration in microirrigation: Improving the underdrain and packing. <i>Biosystems Engineering</i> , 2015, 140, 67-78.	4.3	18
25	Effect of different sand filter underdrain designs on emitter clogging using reclaimed effluents. <i>Agricultural Water Management</i> , 2019, 223, 105683.	5.6	18
26	An experimental and analytical study to analyze hydraulic behavior of nozzle-type underdrains in porous media filters. <i>Agricultural Water Management</i> , 2013, 126, 64-74.	5.6	17
27	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. <i>Computers and Electronics in Agriculture</i> , 2017, 139, 65-74.	7.7	17
28	Prediction by neural networks of filtered volume and outlet parameters in micro-irrigation sand filters using effluents. <i>Biosystems Engineering</i> , 2012, 111, 126-132.	4.3	16
29	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
30	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
31	Effluent particle removal by microirrigation system filters. <i>Spanish Journal of Agricultural Research</i> , 2005, 3, 182.	0.6	15
32	New mathematical model for computing head loss across sand media filter for microirrigation systems. <i>Irrigation Science</i> , 2013, 31, 343-349.	2.8	14
33	Using an anti-clogging relative index (CRI) to assess emitters rapidly for drip irrigation systems with multiple low-quality water sources. <i>Agricultural Water Management</i> , 2019, 221, 270-278.	5.6	13
34	Effects of the underdrain design on the pressure drop in sand filters. <i>Biosystems Engineering</i> , 2016, 150, 1-9.	4.3	12
35	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
36	Fouling of Reverse Osmosis Membranes Processing Swine Wastewater Pretreated by Mechanical Separation and Aerobic Biofiltration. <i>Separation Science and Technology</i> , 2014, 49, 1298-1308.	2.5	8

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37	Environmental assessment of underdrain designs for a sand media filter. <i>Biosystems Engineering</i> , 2018, 167, 126-136.	4.3	8
38	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
39	Preliminary planning for reclaimed water reuse for agricultural irrigation in the province of Girona, Catalonia (Spain). <i>Desalination and Water Treatment</i> , 2010, 22, 47-55.	1.0	7
40	Effect of Flushing Velocity and Flushing Duration on Sediment Transport in Microirrigation Driplines. <i>Transactions of the ASABE</i> , 2013, , 1821-1828.	1.1	7
41	A new predictive model for the outlet turbidity in micro-irrigation sand filters fed with effluents using Gaussian process regression. <i>Computers and Electronics in Agriculture</i> , 2020, 170, 105292.	7.7	7
42	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
43	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
44	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
45	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
46	Assessment of Field Water Uniformity Distribution in a Microirrigation System using a SCADA System. <i>Water (Switzerland)</i> , 2019, 11, 1346.	2.7	5
47	The efficiency of various chemical solutions to clean reverse osmosis membranes processing swine wastewater. <i>Water Quality Research Journal of Canada</i> , 2014, 49, 295-306.	2.7	4
48	Efficiency of EDTA, SDS and NaOH solutions to clean RO membranes processing swine wastewater. <i>Separation Science and Technology</i> , 0, , 150629134718002.	2.5	4
49	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
50	Media filter fouling assessment using optical coherence tomography: New methodology. <i>Biosystems Engineering</i> , 2021, 204, 26-35.	4.3	4
51	Private micro-irrigation costs using reclaimed water. <i>Spanish Journal of Agricultural Research</i> , 2011, 9, 1120.	0.6	4
52	Simplified Equations to Estimate Flushline Diameter for Subsurface Drip Irrigation Systems. <i>Transactions of the ASABE</i> , 2017, 60, 185-192.	1.1	3
53	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
54	Un modelo para diseñar aprendizajes mediante proyectos multidisciplinares. <i>Revista De Docencia Universitaria</i> , 2015, 13, 73.	0.3	3

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55	Irrigation performance and gross water productivity in furrow-irrigated ornamental tree production. Spanish Journal of Agricultural Research, 2011, 9, 627.	0.6	3
56	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
57	An improved design of irrigation centrifugal filter for separating water and fine sediment: appropriately increase head loss for high efficiency. Irrigation Science, 2022, 40, 151-161.	2.8	3
58	Effect of type of emitter self-cleaning mechanism and its structure on the performance of drip irrigation system using effluent of rainbow trout fish. Irrigation Science, 2022, 40, 163-175.	2.8	3
59	Effect of different filter media on emitter clogging using reclaimed effluents. Agricultural Water Management, 2022, 266, 107591.	5.6	3
60	Effects of coupling multiple factors on CaCO ₃ fouling in agricultural saline water distribution systems. Agricultural Water Management, 2021, 248, 106757.	5.6	2
61	Environmental Assessment of Underdrain Designs for Granular Media Filters in Drip Irrigation Systems. Agriculture (Switzerland), 2022, 12, 810.	3.1	2
62	Performance of disc, conventional and automatic screen filters under rainbow trout fish farm effluent for drip irrigation system. Environmental Science and Pollution Research, 2022, 29, 80624-80636.	5.3	2
63	Dripline Flushing Velocities for SDI. , 2009, , .		1
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	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
66	Irrigation Performance and Water Productivity in Ornamental Plant Production in Girona (Spain). , 2009, , .		0
67	Effect of flushing velocity and elapsed time on sediment transport in driplines. , 2013, , .		0
68	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
69	Efecto de diferentes diseños de drenajes de filtros de arena en la obtención de goteros utilizando aguas residuales regeneradas. , 2019, , .		0