Rafael MuÃ±oz-Carpena

List of Publications by Year
in descending order

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160	6,328	81743	76769
papers	citations	39 h-index	74 g-index

192	192	192	7679
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling the response of dry bean yield to irrigation water availability controlled by watershed hydrology. Agricultural Water Management, 2021, 243, 106429.	2.4	5
2	High-Resolution Pore-Scale Water Content Measurement in a Translucent Soil Profile from Light Transmission. Transactions of the ASABE, 2021, 64, 949-962.	1.1	2
3	Advancing Surface Water Pesticide Exposure Assessments for Ecosystem Protection. Transactions of the ASABE, 2021, 64, 377-387.	1.1	9
4	An empirical nonlinear dynamics approach to analyzing emergent behavior of agent-based models. AIP Advances, 2021, 11, .	0.6	1
5	Model prediction capacity of ephemeral gully evolution in conservation tillage systems. Earth Surface Processes and Landforms, 2021, 46, 1909-1925.	1.2	7
6	Parsimonious Mechanistic Modeling of Bacterial Runoff into Irrigation Ponds To Inform Food Safety Management of Agricultural Water Quality. Applied and Environmental Microbiology, 2021, 87, e0059621.	1.4	0
7	Quantifying the Importance of Preferential Flow in a Riparian Buffer. Transactions of the ASABE, 2021, 64, 937-947.	1.1	6
8	Modeling exposure risk and prevention of mercury in drinking water for artisanal-small scale gold mining communities. Human and Ecological Risk Assessment (HERA), 2021, 27, 1492-1508.	1.7	7
9	Hyperspectral reflectance measurements from UAS under intermittent clouds: Correcting irradiance measurements for sensor tilt. Remote Sensing of Environment, 2021, 267, 112719.	4.6	11
10	Wetland hydropattern and vegetation greenness predict avian populations in Palo Verde, Costa Rica. Ecological Applications, 2021, , e02493.	1.8	1
11	Comparative Non-Darcian Modeling of Subsurface Preferential Flow Experimental Observations in a Riparian Buffer. Transactions of the ASABE, 2021, 64, 1867-1881.	1.1	1
12	Comment on â€œModeling slope rainfall-infiltration-runoff process with shallow water table during complex rainfall patternsâ€•by Wu et al. (2021). Journal of Hydrology X, 2021, 13, 100113.	0.8	1
13	Seasonal dynamics of terrestrially sourced nitrogen influenced Karenia brevis blooms off Florida's southern Gulf Coast. Harmful Algae, 2020, 98, 101900.	2.2	24
14	Coupling high-resolution field monitoring and MODIS for reconstructing wetland historical hydroperiod at a high temporal frequency. Remote Sensing of Environment, 2020, 247, 111807.	4.6	17
15	Parameter uncertainty drives important incongruities between simulated chlorophyll-a and phytoplankton functional group dynamics in a mechanistic management model. Environmental Modelling and Software, 2020, 129, 104708.	1.9	10
16	Importance of genetic parameters and uncertainty of MANIHOT, a new mechanistic cassava simulation model. European Journal of Agronomy, 2020, 115, 126031.	1.9	12
17	A Parsimonious Empirical Approach to Streamflow Recession Analysis and Forecasting. Water Resources Research, 2020, 56, e2019WR025771.	1.7	7
18	Comparison of empirical and mechanistic equations for vegetative filter strip pesticide mitigation in long-term environmental exposure assessments. Water Research, 2019, 165, 114983.	5.3	13

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19	A spatiotemporal natural-human database to evaluate road development impacts in an Amazon trinational frontier. Scientific Data, 2019, 6, 93.	2.4	6
20	Nonlinear Dynamics in Treatment Wetlands: Identifying Systematic Drivers of Nonequilibrium Outlet Concentrations in Everglades STAs. Water Resources Research, 2019, 55, 11101-11120.	1.7	9
21	Effective Global Sensitivity Analysis for High-Dimensional Hydrologic and Water Quality Models. Journal of Hydrologic Engineering - ASCE, 2019, 24, .	0.8	9
22	Water quality variability in the middle and down streams of Han River under the influence of the Middle Route of South-North Water diversion project, China. Journal of Hydrology, 2019, 569, 218-229.	2.3	53
23	Scientists and Stakeholders, Data and Diagnostics: Crossing Boundaries for Modeling the Impacts of Highway Paving in a Tri-national Frontier in the Amazon. , 2019, , 327-359.		2
24	Design of Vegetative Filter Strip Using Web-Based System with Groundwater Table and Pesticide Degradation Analysis Modules. Journal of Hydrologic Engineering - ASCE, 2018, 23, 04017061.	0.8	3
25	Revealing Biotic and Abiotic Controls of Harmful Algal Blooms in a Shallow Subtropical Lake through Statistical Machine Learning. Environmental Science & Technology, 2018, 52, 3527-3535.	4.6	55
26	Effect of vegetative filter strip pesticide residue degradation assumptions for environmental exposure assessments. Science of the Total Environment, 2018, 619-620, 977-987.	3.9	15
27	Using Cluster Analysis to Compartmentalize a Large Managed Wetland Based on Physical, Biological, and Climatic Geospatial Attributes. Environmental Management, 2018, 62, 571-583.	1.2	1
28	Distinguishing between endogenous and exogenous price volatility in food security assessment: An empirical nonlinear dynamics approach. Agricultural Systems, 2018, 160, 98-109.	3.2	11
29	Controlled laboratory experiments and modeling of vegetative filter strips with shallow water tables. Journal of Hydrology, 2018, 556, 1-9.	2.3	27
30	UZIG Research: Measurement and Characterization of Unsaturated Zone Processes under Wide-Ranging Climates and Changing Conditions. Vadose Zone Journal, 2018, 17, 180198.	1.3	2
31	3DMGAR: A Transient Quasi-3D Point-Source Green-Ampt Infiltration and Redistribution Model. Vadose Zone Journal, 2018, 17, 180032.	1.3	4
32	Science in support of Amazonian conservation in the 21st century: the case of Brazil. Biotropica, 2018, 50, 850-858.	0.8	6
33	Using a coupled dynamic factor â€“ random forest analysis (DFRFA) to reveal drivers of spatiotemporal heterogeneity in the semi-arid regions of southern Africa. PLoS ONE, 2018, 13, e0208400.	1.1	4
34	Riparian Vadose Zone Preferential Flow: Review of Concepts, Limitations, and Perspectives. Vadose Zone Journal, 2018, 17, 1-20.	1.3	22
35	Shallow water table effects on water, sediment, and pesticide transport in vegetative filter strips â€“ Part 2: model coupling, application, factor importance, and uncertainty. Hydrology and Earth System Sciences, 2018, 22, 71-87.	1.9	32
36	Shallow water table effects on water, sediment, and pesticide transport in vegetative filter strips â€“ Part 1: nonuniform infiltration and soil water redistribution. Hydrology and Earth System Sciences, 2018, 22, 53-70.	1.9	32

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37	Highway paving in the southwestern Amazon alters long-term trends and drivers of regional vegetation dynamics. Heliyon, 2018, 4, e00721.	1.4	12
38	Brief history of agricultural systems modeling. Agricultural Systems, 2017, 155, 240-254.	3.2	403
39	Transforming the food-water-energy-land-economic nexus of plasticulture production through compact bed geometries. Advances in Water Resources, 2017, 110, 515-527.	1.7	14
40	Accounting for the Impact of Management Scenarios on Typha Domingensis (Cattail) in an Everglades Wetland. Environmental Management, 2017, 59, 129-140.	1.2	4
41	Temporal variability in the importance of hydrologic, biotic, and climatic descriptors of dissolved oxygen dynamics in a shallow tidalâ€marsh creek. Water Resources Research, 2017, 53, 7103-7120.	1.7	14
42	Toward a new generation of agricultural system data, models, and knowledge products: State of agricultural systems science. Agricultural Systems, 2017, 155, 269-288.	3.2	261
43	Defining context-specific scenarios to design vegetated buffer zones that limit pesticide transfer via surface runoff. Science of the Total Environment, 2017, 575, 701-712.	3.9	34
44	Towards a new generation of agricultural system data, models and knowledge products: Design and improvement. Agricultural Systems, 2017, 155, 255-268.	3.2	99
45	An Effective Parameter Screening Strategy for High Dimensional Models. , 2017, , .		3
46	Evaluating the U.S. Food Safety Modernization Act Produce Safety Rule Standard for Microbial Quality of Agricultural Water for Growing Produce. Journal of Food Protection, 2017, 80, 1832-1841.	0.8	50
47	A novel quantile method reveals spatiotemporal shifts in phytoplankton biomass descriptors between bloom and non-bloom conditions in a subtropical estuary. Marine Ecology - Progress Series, 2017, 567, 57-78.	0.9	4
48	Sensitivity of future continental United States water deficit projections to general circulation models, the evapotranspiration estimation method, and the greenhouse gas emission scenario. Hydrology and Earth System Sciences, 2016, 20, 3245-3261.	1.9	2
49	Climate Change: A Call for Adaptation and Mitigation Strategies. Transactions of the ASABE, 2016, 59, 1709-1713.	1.1	9
50	High efficiency and selectivity of MgFe-LDH modified wheat-straw biochar in the removal of nitrate from aqueous solutions. Journal of the Taiwan Institute of Chemical Engineers, 2016, 63, 312-317.	2.7	137
51	Demonstrating correspondence between decision-support models and dynamics of real-world environmental systems. Environmental Modelling and Software, 2016, 83, 74-87.	1.9	9
52	Wetland Landscape Spatio-Temporal Degradation Dynamics Using the New Google Earth Engine Cloud-Based Platform: Opportunities for Non-Specialists in Remote Sensing. Transactions of the ASABE, 2016, 59, 1331-1342.	1.1	24
53	Hidden drivers of low-dose pharmaceutical pollutant mixtures revealed by the novel GSA-QHTS screening method. Science Advances, 2016, 2, e1601272.	4.7	38
54	Avoiding social traps in the ecosystem stewardship: The Italian Fontanile lowland spring. Science of the Total Environment, 2016, 539, 526-535.	3.9	15

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55	Modelaje integrado de cambio climÃ¡tico y socioeconÃ³mico en el manejo sostenible del recurso hÃdrico en la cuenca Arenal-Tempisque: Una propuesta multidisciplinaria. Ciencias Ambientales, 2016, 43, 47.	0.1	1
56	A hydrologic tracer study in a small, natural wetland in the humid tropics of Costa Rica. Wetlands Ecology and Management, 2015, 23, 167-182.	0.7	2
57	Modelling soil water dynamics considering measurement uncertainty. Hydrological Processes, 2015, 29, 692-711.	1.1	5
58	Does mechanistic modeling of filter strip pesticide mass balance and degradation processes affect environmental exposure assessments?. Chemosphere, 2015, 139, 410-421.	4.2	20
59	A multi-criteria trajectory-based parameter sampling strategy for the screening method of elementary effects. Environmental Modelling and Software, 2015, 64, 230-239.	1.9	36
60	Watering or buffering? Runoff and sediment pollution control from furrow irrigated fields in arid environments. Agriculture, Ecosystems and Environment, 2015, 205, 90-101.	2.5	11
61	Design of optimal ecosystem monitoring networks: hotspot detection and biodiversity patterns. Stochastic Environmental Research and Risk Assessment, 2015, 29, 1085-1101.	1.9	14
62	Reducing uncertainty based on model fitness: Application to a reservoir model. Water S A, 2014, 41, 105.	0.2	2
63	Experimental Testing of a New Algorithm for Analysis of Vegetative Filter Strips with Shallow Water Table Effects. , 2014, , .		0
64	Analytical and experimental analysis of solute transport in heterogeneous porous media. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 338-343.	0.9	13
65	A simplified approach for simulating changes in beach habitat due to the combined effects of long-term sea level rise, storm erosion, and nourishment. Environmental Modelling and Software, 2014, 52, 111-120.	1.9	15
66	Evaluating, interpreting, and communicating performance of hydrologic/water quality models considering intended use: A review and recommendations. Environmental Modelling and Software, 2014, 57, 40-51.	1.9	110
67	Groundwater salinity in a floodplain forest impacted by saltwater intrusion. Journal of Contaminant Hydrology, 2014, 169, 19-36.	1.6	11
68	Untangling drivers of species distributions: Global sensitivity and uncertainty analyses of MaxEnt. Environmental Modelling and Software, 2014, 51, 296-309.	1.9	142
69	Global uncertainty and sensitivity analysis of a spatially distributed ecological model. Ecological Modelling, 2014, 275, 22-30.	1.2	17
70	Insights on geologic and vegetative controls over hydrologic behavior of a large complex basin â€“ Global Sensitivity Analysis of an integrated parallel hydrologic model. Journal of Hydrology, 2014, 519, 2238-2257.	2.3	30
71	Colloid Filtration in Surface Dense Vegetation: Experimental Results and Theoretical Predictions. Environmental Science & Technology, 2014, 48, 3883-3890.	4.6	20
72	Simulating water table response to proposed changes in surface water management in the C-111 agricultural basin of south Florida. Agricultural Water Management, 2014, 146, 185-200.	2.4	5

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73	Soil water balance: Comparing two simulation models of different levels of complexity with lysimeter observations. Agricultural Water Management, 2014, 139, 53-63.	2.4	37
74	Impact of plant growth and morphology and of sediment concentration on sediment retention efficiency of vegetative filter strips: Flume experiments and VFSMOD modeling. Journal of Hydrology, 2014, 511, 800-810.	2.3	40
75	Improving watershed decisions using run-off and yield models at different simulation scales. Environment Systems and Decisions, 2013, 33, 440-456.	1.9	1
76	Performance evaluation of hydrological models: Statistical significance for reducing subjectivity in goodness-of-fit assessments. Journal of Hydrology, 2013, 480, 33-45.	2.3	648
77	Effects of ionic strength, particle size, flow rate, and vegetation type on colloid transport through a dense vegetation saturated soil system: Experiments and modeling. Journal of Hydrology, 2013, 499, 316-323.	2.3	29
78	Aggregation Kinetics of Graphene Oxides in Aqueous Solutions: Experiments, Mechanisms, and Modeling. Langmuir, 2013, 29, 15174-15181.	1.6	381
79	Distinct influence of filter strips on acute and chronic pesticide aquatic environmental exposure assessments across U.S. EPA scenarios. Chemosphere, 2013, 90, 195-202.	4.2	18
80	Dynamic factor analysis of surface water management impacts on soil and bedrock water contents in Southern Florida Lowlands. Journal of Hydrology, 2013, 488, 55-72.	2.3	11
81	Decision analysis for species preservation under sea-level rise. Ecological Modelling, 2013, 263, 264-272.	1.2	13
82	Evaluating ecological resilience with global sensitivity and uncertainty analysis. Ecological Modelling, 2013, 263, 174-186.	1.2	41
83	DLVO Interactions of Carbon Nanotubes with Isotropic Planar Surfaces. Langmuir, 2013, 29, 3976-3988.	1.6	42
84	Hydrologic Modeling, Uncertainty, and Sensitivity in the Okavango Basin: Insights for Scenario Assessment. Journal of Hydrologic Engineering - ASCE, 2013, 18, 1767-1778.	0.8	13
85	Beyond Precipitation: Physiographic Gradients Dictate the Relative Importance of Environmental Drivers on Savanna Vegetation. PLoS ONE, 2013, 8, e72348.	1.1	43
86	Parameter Variability and Drought Models: A Study Using the Agricultural Reference Index for Drought (ARID). Agronomy Journal, 2013, 105, 1417-1432.	0.9	8
87	Combined Spatial and Temporal Effects of Environmental Controls on Long-Term Monthly NDVI in the Southern Africa Savanna. Remote Sensing, 2013, 5, 6513-6538.	1.8	49
88	Methods of using carbon nanotubes as filter media to remove aqueous heavy metals. Chemical Engineering Journal, 2012, 210, 557-563.	6.6	70
89	Effect of solution chemistry on multi-walled carbon nanotube deposition and mobilization in clean porous media. Journal of Hazardous Materials, 2012, 231-232, 79-87.	6.5	57
90	A spatially distributed, deterministic approach to modeling Typha domingensis (cattail) in an Everglades wetland. Ecological Processes, 2012, 1, .	1.6	8

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91	Single Collector Attachment Efficiency of Colloid Capture by a Cylindrical Collector in Laminar Overland Flow. Environmental Science & Technology, 2012, 46, 8878-8886.	4.6	23
92	Shorebird patches as fingerprints of fractal coastline fluctuations due to climate change. Ecological Processes, 2012, 1, .	1.6	15
93	Sediment and Nutrient Reduction in Irrigation Return Flows by Vegetated Filter Strips on Surface Irrigated Fields. , 2012, , .		0
94	Simulating the fate of Florida Snowy Plovers with sea-level rise: Exploring research and management priorities with a global uncertainty and sensitivity analysis perspective. Ecological Modelling, 2012, 224, 33-47.	1.2	31
95	The role of cover crops in irrigated systems: Water balance, nitrate leaching and soil mineral nitrogen accumulation. Agriculture, Ecosystems and Environment, 2012, 155, 50-61.	2.5	118
96	A flood pulse driven fish population model for the Okavango Delta, Botswana. Ecological Modelling, 2012, 228, 27-38.	1.2	22
97	Epistemic uncertainty in predicting shorebird biogeography affected by sea-level rise. Ecological Modelling, 2012, 240, 1-15.	1.2	31
98	Effect of dense vegetation on colloid transport and removal in surface runoff. Journal of Hydrology, 2012, 434-435, 1-6.	2.3	23
99	Experimental Analysis of Colloid Capture by a Cylindrical Collector in Laminar Overland Flow. Environmental Science & Technology, 2011, 45, 7777-7784.	4.6	12
100	Irrigation Scheduling for Green Bell Peppers Using Capacitance Soil Moisture Sensors. Journal of Irrigation and Drainage Engineering - ASCE, 2011, 137, 73-81.	0.6	60
101	Calibration of a combined dielectric probe for soil moisture and porewater salinity measurement in organic and mineral coastal wetland soils. Geoderma, 2011, 161, 50-62.	2.3	24
102	Scale- and resolution-invariance of suitable geographic range for shorebird metapopulations. Ecological Complexity, 2011, 8, 364-376.	1.4	26
103	Predicting Soil Water Content Using the â€œDrained to Equilibriumâ€•Concept. Vadose Zone Journal, 2011, 10, 675-682.	1.3	8
104	Do Tropical Cyclones Shape Shorebird Habitat Patterns? Biogeoclimatology of Snowy Plovers in Florida. PLoS ONE, 2011, 6, e15683.	1.1	27
105	Complementary effects of surface water and groundwater on soil moisture dynamics in a degraded coastal floodplain forest. Journal of Hydrology, 2011, 398, 221-234.	2.3	19
106	A laboratory study of colloid and solute transport in surface runoff on saturated soil. Journal of Hydrology, 2011, 402, 159-164.	2.3	28
107	Hydrological Importance and Water Quality Treatment Potential of a Small Freshwater Wetland in the Humid Tropics of Costa Rica. Wetlands, 2011, 31, 1117-1130.	0.7	10
108	Anthropogenic renourishment feedback on shorebirds: A multispecies Bayesian perspective. Ecological Engineering, 2011, 37, 1184-1194.	1.6	19

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109	Exploring vulnerability of coastal habitats to sea level rise through global sensitivity andÂuncertainty analyses. Environmental Modelling and Software, 2011, 26, 593-604.	1.9	121
110	Parameter Importance and Uncertainty in Predicting Runoff Pesticide Reduction with Filter Strips. Journal of Environmental Quality, 2010, 39, 630-641.	1.0	67
111	Influence of flow concentration on parameter importance and prediction uncertainty of pesticide trapping by vegetative filter strips. Journal of Hydrology, 2010, 384, 164-173.	2.3	76
112	Linking River, Floodplain, and Vadose Zone Hydrology to Improve Restoration of a Coastal River Affected by Saltwater Intrusion. Journal of Environmental Quality, 2010, 39, 1570-1584.	1.0	27
113	Untangling complex shallow groundwater dynamics in the floodplain wetlands of a southeastern U.S. coastal river. Water Resources Research, 2010, 46, .	1.7	31
114	Revised Framework for Pesticide Aquatic Environmental Exposure Assessment that Accounts for Vegetative Filter Strips. Environmental Science & Technology, 2010, 44, 3839-3845.	4.6	25
115	UZIG USGS Research: Advances through Interdisciplinary Interaction. Vadose Zone Journal, 2009, 8, 411-413.	1.3	2
116	Shallow Water Table Contribution to Soil-Water Retention in the Capillary Fringe of a Very Gravelly Loam Soil of South Florida. , 2009, , .		0
117	Simplified modeling of phosphorus removal by vegetative filter strips to control runoff pollution from phosphate mining areas. Journal of Hydrology, 2009, 378, 343-354.	2.3	40
118	Apatite Control of Phosphorus Release to Runoff from Soils of Phosphate Mine Reclamation Areas. Water, Air, and Soil Pollution, 2009, 202, 189-198.	1.1	14
119	Reduction in Metolachlor and Degradate Concentrations in Shallow Groundwater through Cover Crop Use. Journal of Agricultural and Food Chemistry, 2009, 57, 9658-9667.	2.4	19
120	Tomato yield, biomass accumulation, root distribution and irrigation water use efficiency on a sandy soil, as affected by nitrogen rate and irrigation scheduling. Agricultural Water Management, 2009, 96, 23-34.	2.4	230
121	Tomato nitrogen accumulation and fertilizer use efficiency on a sandy soil, as affected by nitrogen rate and irrigation scheduling. Agricultural Water Management, 2009, 96, 1247-1258.	2.4	137
122	Nitrogen Uptake Efficiency and Growth of Bell Pepper in Relation to Time of Exposure to Fertilizer Solution. Communications in Soil Science and Plant Analysis, 2009, 40, 2111-2131.	0.6	5
123	An Improved Greenâ€“Ampt Infiltration and Redistribution Method for Uneven Multistorm Series. Vadose Zone Journal, 2009, 8, 470-479.	1.3	33
124	Temporal Common Trends of Topsoil Water Dynamics in a Humid Subtropical Forest Watershed. Vadose Zone Journal, 2009, 8, 437-449.	1.3	33
125	Assessing benefits of irrigation and nutrient management practices on a southeast Florida royal palm (Roystonea elata) field nursery. Irrigation Science, 2008, 27, 57-66.	1.3	7
126	Summer cover crop impacts on soil percolation and nitrogen leaching from a winter corn field. Agricultural Water Management, 2008, 95, 633-644.	2.4	28

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127	Nitrogen and water use efficiency of zucchini squash for a plastic mulch bed system on a sandy soil. Scientia Horticulturae, 2008, 116, 8-16.	1.7	70
128	Incorporating uncertainty into adaptive, transboundary water challenges: a conceptual design for the Okavango River basin. International Journal of Risk Assessment and Management, 2008, 10, 312.	0.2	6
129	Fertilizer Residence Time Affects Nitrogen Uptake Efficiency and Growth of Sweet Corn. Journal of Environmental Quality, 2008, 37, 1271-1278.	1.0	20
130	Monitoring of Nitrate Leaching in Sandy Soils. Journal of Environmental Quality, 2007, 36, 953-962.	1.0	105
131	Summer Cover Crops Reduce Atrazine Leaching to Shallow Groundwater in Southern Florida. Journal of Environmental Quality, 2007, 36, 1301-1309.	1.0	19
132	An Inverse Calibrator For VFSMOD-W Using The Global Multilevel Coordinate Search/ Nelder-Mead Simplex Algorithm. , 2007, , .		1
133	Agricultural land use and hydrology affect variability of shallow groundwater nitrate concentration in South Florida. Hydrological Processes, 2007, 21, 2464-2473.	1.1	43
134	Evaluation of Modeling Tools For TMDL Development And Implementation. , 2007, , .		1
135	Dynamic factor modeling of ground and surface water levels in an agricultural area adjacent to Everglades National Park. Journal of Hydrology, 2006, 317, 340-354.	2.3	46
136	UNCERTAINTY IN TMDL MODELS. Transactions of the ASABE, 2006, 49, 1033-1049.	1.1	123
137	CHARACTERIZATION OF SOIL-WATER RETENTION OF A VERY GRAVELLY LOAM SOIL VARIED WITH DETERMINATION METHOD. Soil Science, 2006, 171, 85-93.	0.9	34
138	Irrigation and Nitrogen Best Management Practices under Drip Irrigated Vegetable Production. , 2006, , 1.		4
139	Interaction Between Water and Nitrogen Application on Yields and Water-use Efficiency of Tomato and Pepper in Sandy Soil. Hortscience: A Publication of the American Society for Hortcultural Science, 2006, 41, 981C-981.	0.5	2
140	Dynamic factor analysis of groundwater quality trends in an agricultural area adjacent to Everglades National Park. Journal of Contaminant Hydrology, 2005, 80, 49-70.	1.6	76
141	Simplified Method to Estimate the Green-Ampt Wetting Front Suction and Soil Sorptivity with the Philip-Dunne Falling-Head Permeameter. Vadose Zone Journal, 2005, 4, 291-299.	1.3	22
142	TDR estimation of electrical conductivity and saline solute concentration in a volcanic soil. Geoderma, 2005, 124, 399-413.	2.3	38
143	Using TDR and Inverse Modeling to Characterize Solute Transport in a Layered Agricultural Volcanic Soil. Vadose Zone Journal, 2005, 4, 300-309.	1.3	16
144	Helpful Tips for Chemigation of Papaya. Edis, 2005, 2005, .	0.0	0

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145	Automatic Irrigation Based on Soil Moisture for Vegetable Crops. Edis, 2005, 2005, .	0.0	10
146	A DESIGN PROCEDURE FOR VEGETATIVE FILTER STRIPS USING VFSMOD-W. Transactions of the American Society of Agricultural Engineers, 2004, 47, 1933-1941.	0.9	67
147	Estimating the saturated hydraulic conductivity in a spatially variable soil with different permeameters: a stochastic Kozenyâ€“Carman relation. Soil and Tillage Research, 2004, 77, 189-202.	2.6	44
148	Analysis of alternative measurement strategies for the inverse optimization of the hydraulic properties of a volcanic soil. Journal of Hydrology, 2004, 295, 124-139.	2.3	40
149	Physical properties of â€œsorribaâ€•cultivated volcanic soils from Tenerife in relation to andic diagnostic parameters. Geoderma, 2003, 117, 297-311.	2.3	39
150	Time domain reflectometry models as a tool to understand the dielectric response of volcanic soils. Geoderma, 2003, 117, 313-330.	2.3	64
151	Using inverse methods for estimating soil hydraulic properties from field data as an alternative to direct methods. Agricultural Water Management, 2003, 59, 77-96.	2.4	135
152	FIELD EVALUATION OF THE NEW PHILIP-DUNNE PERMEAMETER FOR MEASURING SATURATED HYDRAULIC CONDUCTIVITY. Soil Science, 2002, 167, 9-24.	0.9	60
153	Nitrogen evolution and fate in a Canary Islands (Spain) sprinkler fertigated banana plot. Agricultural Water Management, 2002, 52, 93-117.	2.4	18
154	Scaling Up Transport of Water and Solutes in a Banana Plantation: From 1D and 2D to Field Scale. , 2002, , 1.		0
155	The Philip-Dunne permeameter: a low-tech/low-cost field saturated hydraulic conductivity device. , 2001, , .		0
156	Modeling hydrology and sediment transport in vegetative filter strips. Journal of Hydrology, 1999, 214, 111-129.	2.3	264
157	A quadratic Petrov-Galerkin Solution for kinematic wave overland flow. Water Resources Research, 1993, 29, 2615-2627.	1.7	22
158	A normalized design procedure to meet sediment TMDL with vegetative filter strips. , 0, , .		1
159	Sensitivity Analysis and Parameter Estimation for an Approximate Analytical Model of Canal-Aquifer Interaction Applied in the C-111 Basin. Transactions of the ASABE, 0, , 977-992.	1.1	2
160	VFSMOD-W a graphical Windows system for the evaluation and design of vegetative filter strips for sediment trapping. , 0, , .		2