

Silvio J Gumiere

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

697
citations

623734

14
h-index

610901

24
g-index

51
all docs

51
docs citations

51
times ranked

830
citing authors

#	ARTICLE	IF	CITATIONS
1	Vegetated filter effects on sedimentological connectivity of agricultural catchments in erosion modelling: a review. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 3-19.	2.5	103
2	Soil resistance to interrill erosion: Model parameterization and sensitivity. <i>Catena</i> , 2009, 77, 274-284.	5.0	44
3	Bayesian Uncertainty Analysis of the Distributed Hydrological Model HYDROTEL. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 1021-1032.	1.9	42
4	Modeling the effects of agricultural BMPs on sediments, nutrients, and water quality of the Beaurivage River watershed (Quebec, Canada). <i>Canadian Water Resources Journal</i> , 2013, 38, 99-120.	1.2	39
5	Mapping soil hydraulic conductivity and matric potential for water management of cranberry: Characterisation and spatial interpolation methods. <i>Biosystems Engineering</i> , 2014, 128, 29-40.	4.3	38
6	Water table depth forecasting in cranberry fields using two decision-tree-modeling approaches. <i>Agricultural Water Management</i> , 2020, 233, 106090.	5.6	34
7	Implementation of an automatic calibration procedure for HYDROTEL based on prior OAT sensitivity and complementary identifiability analysis. <i>Hydrological Processes</i> , 2014, 28, 3947-3961.	2.6	31
8	Characterization of Water Retention Curves for a Series of Cultivated Histosols. <i>Vadose Zone Journal</i> , 2015, 14, 1-8.	2.2	29
9	Phosphorus source driving the soil microbial interactions and improving sugarcane development. <i>Scientific Reports</i> , 2019, 9, 4400.	3.3	28
10	MHYDAS-Erosion: a distributed single-storm water erosion model for agricultural catchments. <i>Hydrological Processes</i> , 2011, 25, 1717-1728.	2.6	25
11	Machine Learning vs. Physics-Based Modeling for Real-Time Irrigation Management. <i>Frontiers in Water</i> , 2020, 2, .	2.3	24
12	Long-Term Effects of Peatland Cultivation on Soil Physical and Hydraulic Properties: Case Study in Canada. <i>Vadose Zone Journal</i> , 2015, 14, 1-12.	2.2	23
13	Water Table Control for Increasing Yield and Saving Water in Cranberry Production. <i>Sustainability</i> , 2015, 7, 10602-10619.	3.2	20
14	Optimal Irrigation for Onion and Celery Production and Spinach Seed Germination in Histosols. <i>Agronomy Journal</i> , 2014, 106, 981-994.	1.8	19
15	Framework for studying the hydrological impact of climate change in an alley cropping system. <i>Journal of Hydrology</i> , 2014, 517, 547-556.	5.4	13
16	Assessment of the Impact of Subsurface Agricultural Drainage on Soil Water Storage and Flows of a Small Watershed. <i>Water (Switzerland)</i> , 2016, 8, 326.	2.7	13
17	Modeling of subsurface agricultural drainage using two hydrological models with different conceptual approaches as well as dimensions and spatial scales. <i>Canadian Water Resources Journal</i> , 2017, 42, 38-53.	1.2	13
18	Soil Bacterial Community Associated With High Potato Production and Minimal Water Use. <i>Frontiers in Environmental Science</i> , 2019, 6, .	3.3	12

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19	Designing management options to reduce surface runoff and sediment yield with farmers: An experiment in south-western France. <i>Journal of Environmental Management</i> , 2012, 96, 74-85.	7.8	11
20	Modeling the sediment yield and the impact of vegetated filters using an event-based soil erosion model-a case study of a small Canadian watershed. <i>Hydrological Processes</i> , 2016, 30, 2835-2850.	2.6	11
21	Irrigation and drainage management strategies to enhance cranberry production and optimize water use in North America. <i>Canadian Journal of Soil Science</i> , 2017, , .	1.2	11
22	Automated Mapping of Water Table for Cranberry Subirrigation Management: Comparison of Three Spatial Interpolation Methods. <i>Water (Switzerland)</i> , 2020, 12, 3322.	2.7	11
23	Development of VFDM: a riparian vegetated filter dimensioning model for agricultural watersheds. <i>Canadian Water Resources Journal</i> , 2013, 38, 169-184.	1.2	10
24	Analyse de sensibilit� globale du mod�le CATHY aux propri�t�s hydrodynamiques du sol d�un micro-bassin agricole drain�. <i>Hydrological Sciences Journal</i> , 2014, 59, 1606-1623.	2.6	9
25	Potato Varieties Response to Soil Matric Potential Based Irrigation. <i>Agronomy</i> , 2021, 11, 352.	3.0	9
26	Spatial Distribution Patterns of Soil Water Availability as a Tool for Precision Irrigation Management in Histosols: Characterization and Spatial Interpolation. <i>Vadose Zone Journal</i> , 2015, 14, 1-13.	2.2	8
27	Evaluating the Impact of the Spatial Distribution of Land Management Practices on Water Erosion: Case Study of a Mediterranean Catchment. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	1.9	7
28	Impacts of Water Stress Severity and Duration on Potato Photosynthetic Activity and Yields. <i>Frontiers in Agronomy</i> , 2020, 2, .	3.3	7
29	Development of a steady-state model to predict daily water table depth and root zone soil matric potential of a cranberry field with a subirrigation system. <i>Agricultural Water Management</i> , 2019, 213, 1016-1027.	5.6	6
30	Efficient Irrigation of Maize Through Soil Moisture Monitoring and Modeling. <i>Frontiers in Water</i> , 2021, 3, .	2.3	6
31	Effects of irrigation thresholds and temporal distribution on potato yield and water productivity in sandy soil. <i>Agricultural Water Management</i> , 2022, 264, 107483.	5.6	6
32	Association between irrigation thresholds and promotion of soil organic carbon decomposition in sandy soil. <i>Scientific Reports</i> , 2021, 11, 6733.	3.3	5
33	Implementation of a Root Water Extraction Module in CATHY: Comparison of Four Empirical Root-density Distribution Models. <i>Procedia Environmental Sciences</i> , 2013, 19, 57-66.	1.4	4
34	Impact of drainage problems on cranberry yields: Two case studies1. <i>Canadian Journal of Soil Science</i> , 0, , 1-4.	1.2	4
35	Editorial: Hydro-Informatics for Sustainable Water Management in Agrosystems. <i>Frontiers in Water</i> , 2021, 3, .	2.3	4
36	Relationships between soil hydraulic properties, drainage efficiency and cranberry yields. <i>Canadian Journal of Soil Science</i> , 2016, , .	1.2	3

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37	Relationship Between Irrigation Thresholds and Potato Tuber Depth in Sandy Soil. <i>Frontiers in Soil Science</i> , 0, 2, .	2.2	3
38	Optimizing the dataset size of a topo-bathymetric survey for Hammam Debagh Dam, Algeria. <i>International Journal of Sediment Research</i> , 2018, 33, 518-524.	3.5	2
39	Agricultural Hydroinformatics: A Blueprint for an Emerging Framework to Foster Water Management-Centric Sustainability Transitions in Farming Systems. <i>Frontiers in Water</i> , 2020, 2, .	2.3	2
40	Temporal and Local Heterogeneities of Water Table Depth under Different Agricultural Water Management Conditions. <i>Water (Switzerland)</i> , 2021, 13, 2148.	2.7	2
41	Multi-scale Calibration and Validation of MHYDAS-Erosion for A Small Mediterranean Vineyard Catchment: A Case Study. <i>Revue Des Sciences De L'Eau</i> , 0, 27, 21-36.	0.2	1
42	Development of VFDM: A Riparian Vegetated Filter Dimensioning Model. , 2011, , .		0
43	Positioning Temperature Sensors for Frost Protection in Northern Cranberry Production. <i>Agricultural Sciences</i> , 2017, 08, 960-971.	0.3	0
44	Assessment of the impact of subsurface agricultural drainage on soil water storage and flow of a small watershed. <i>Journal of Geology & Geophysics</i> , 2018, 07, .	0.1	0
45	Erosion by Water: Vegetative Control. , 2020, , 395-406.		0