Silvio J Gumiere

List of Publications by Year
in descending order

45	697	623734	610901
papers	citations	14 h-index	24 g-index

51	51	51	830
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of irrigation thresholds and temporal distribution on potato yield and water productivity in sandy soil. Agricultural Water Management, 2022, 264, 107483.	5.6	6
2	Potato Varieties Response to Soil Matric Potential Based Irrigation. Agronomy, 2021, 11, 352.	3.0	9
3	Efficient Irrigation of Maize Through Soil Moisture Monitoring and Modeling. Frontiers in Water, 2021, 3, .	2.3	6
4	Association between irrigation thresholds and promotion of soil organic carbon decomposition in sandy soil. Scientific Reports, 2021, 11, 6733.	3.3	5
5	Temporal and Local Heterogeneities of Water Table Depth under Different Agricultural Water Management Conditions. Water (Switzerland), 2021, 13, 2148.	2.7	2
6	Editorial: Hydro-Informatics for Sustainable Water Management in Agrosystems. Frontiers in Water, 2021, 3, .	2.3	4
7	Impacts of Water Stress Severity and Duration on Potato Photosynthetic Activity and Yields. Frontiers in Agronomy, 2020, 2, .	3.3	7
8	Automated Mapping of Water Table for Cranberry Subirrigation Management: Comparison of Three Spatial Interpolation Methods. Water (Switzerland), 2020, 12, 3322.	2.7	11
9	Agricultural Hydroinformatics: A Blueprint for an Emerging Framework to Foster Water Management-Centric Sustainability Transitions in Farming Systems. Frontiers in Water, 2020, 2, .	2.3	2
10	Machine Learning vs. Physics-Based Modeling for Real-Time Irrigation Management. Frontiers in Water, 2020, 2, .	2.3	24
11	Water table depth forecasting in cranberry fields using two decision-tree-modeling approaches. Agricultural Water Management, 2020, 233, 106090.	5.6	34
12	Erosion by Water: Vegetative Control. , 2020, , 395-406.		0
13	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. Agricultural Water Management, 2019, 213, 1016-1027.	5.6	6
14	Phosphorus source driving the soil microbial interactions and improving sugarcane development. Scientific Reports, 2019, 9, 4400.	3.3	28
15	Soil Bacterial Community Associated With High Potato Production and Minimal Water Use. Frontiers in Environmental Science, 2019, 6, .	3.3	12
16	Optimizing the dataset size of a topo-bathymetric survey for Hammam Debagh Dam, Algeria. International Journal of Sediment Research, 2018, 33, 518-524.	3.5	2
17	Assessment of the impact of subsurface agricultural drainage on soil water storage and flow of a small watershed. Journal of Geology & Geophysics, 2018, 07, .	0.1	0
18	Irrigation and drainage management strategies to enhance cranberry production and optimize water use in North America. Canadian Journal of Soil Science, 2017, , .	1.2	11

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19	Modeling of subsurface agricultural drainage using two hydrological models with different conceptual approaches as well as dimensions and spatial scales. Canadian Water Resources Journal, 2017, 42, 38-53.	1.2	13
20	Positioning Temperature Sensors for Frost Protection in Northern Cranberry Production. Agricultural Sciences, 2017, 08, 960-971.	0.3	0
21	Assessment of the Impact of Subsurface Agricultural Drainage on Soil Water Storage and Flows of a Small Watershed. Water (Switzerland), 2016, 8, 326.	2.7	13
22	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. Hydrological Processes, 2016, 30, 2835-2850.	2.6	11
23	Relationships between soil hydraulic properties, drainage efficiency and cranberry yields. Canadian Journal of Soil Science, 2016, , .	1.2	3
24	Spatial Distribution Patterns of Soil Water Availability as a Tool for Precision Irrigation Management in Histosols: Characterization and Spatial Interpolation. Vadose Zone Journal, 2015, 14, 1-13.	2.2	8
25	Longâ€Term Effects of Peatland Cultivation on Soil Physical and Hydraulic Properties: Case Study in Canada. Vadose Zone Journal, 2015, 14, 1-12.	2.2	23
26	Water Table Control for Increasing Yield and Saving Water in Cranberry Production. Sustainability, 2015, 7, 10602-10619.	3.2	20
27	Characterization of Water Retention Curves for a Series of Cultivated Histosols. Vadose Zone Journal, 2015, 14, 1-8.	2.2	29
28	Evaluating the Impact of the Spatial Distribution of Land Management Practices on Water Erosion: Case Study of a Mediterranean Catchment. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	1.9	7
29	Analyse de sensibilitÃ© globale du modÃ¨le CATHY aux propriÃ©tÃ©s hydrodynamiques du sol dâ€™un micro-bassin agricole drainÃ©. Hydrological Sciences Journal, 2014, 59, 1606-1623.	2.6	9
30	Mapping soil hydraulic conductivity and matric potential for water management of cranberry: Characterisation and spatial interpolation methods. Biosystems Engineering, 2014, 128, 29-40.	4.3	38
31	Framework for studying the hydrological impact of climate change in an alley cropping system. Journal of Hydrology, 2014, 517, 547-556.	5.4	13
32	Optimal Irrigation for Onion and Celery Production and Spinach Seed Germination in Histosols. Agronomy Journal, 2014, 106, 981-994.	1.8	19
33	Implementation of an automatic calibration procedure for HYDROTEL based on prior OAT sensitivity and complementary identifiability analysis. Hydrological Processes, 2014, 28, 3947-3961.	2.6	31
34	Modeling the effects of agricultural BMPs on sediments, nutrients, and water quality of the Beaurivage River watershed (Quebec, Canada). Canadian Water Resources Journal, 2013, 38, 99-120.	1.2	39
35	Implementation of a Root Water Extraction Module in CATHY: Comparison of Four Empirical Root-density Distribution Models. Procedia Environmental Sciences, 2013, 19, 57-66.	1.4	4
36	Development of VFDM: a riparian vegetated filter dimensioning model for agricultural watersheds. Canadian Water Resources Journal, 2013, 38, 169-184.	1.2	10

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37	Bayesian Uncertainty Analysis of the Distributed Hydrological Model HYDROTEL. Journal of Hydrologic Engineering - ASCE, 2012, 17, 1021-1032.	1.9	42
38	Designing management options to reduce surface runoff and sediment yield with farmers: An experiment in south-western France. Journal of Environmental Management, 2012, 96, 74-85.	7.8	11
39	Development of VFDM: A Riparian Vegetated Filter Dimensioning Model. , 2011, , .		0
40	Vegetated filter effects on sedimentological connectivity of agricultural catchments in erosion modelling: a review. Earth Surface Processes and Landforms, 2011, 36, 3-19.	2.5	103
41	MHYDAS-Erosion: a distributed single-storm water erosion model for agricultural catchments. Hydrological Processes, 2011, 25, 1717-1728.	2.6	25
42	Soil resistance to interrill erosion: Model parameterization and sensitivity. Catena, 2009, 77, 274-284.	5.0	44
43	Multi-scale Calibration and Validation of MHYDAS-Erosion for A Small Mediterranean Vineyard Catchment: A Case Study. Revue Des Sciences De L'Eau, 0, 27, 21-36.	0.2	1
44	Impact of drainage problems on cranberry yields: Two case studies1. Canadian Journal of Soil Science, 0, , 1-4.	1.2	4
45	Relationship Between Irrigation Thresholds and Potato Tuber Depth in Sandy Soil. Frontiers in Soil Science, 0, 2, .	2.2	3