

Julie Constantin

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,818
citations

236925

25
h-index

276875

41
g-index

45
all docs

45
docs citations

45
times ranked

2101
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of cover crop on water and nitrogen balances and cash crop yield in a temperate climate: A modelling approach using the STICS soil-crop model. <i>European Journal of Agronomy</i> , 2022, 132, 126416.	4.1	7
2	A modelling chain combining soft and hard models to assess a bundle of ecosystem services provided by a diversity of cereal-legume intercrops. <i>European Journal of Agronomy</i> , 2022, 132, 126412.	4.1	7
3	Evaluating the impact of using digital soil mapping products as input for spatializing a crop model: The case of drainage and maize yield simulated by STICS in the Berambadi catchment (India). <i>Geoderma</i> , 2022, 406, 115503.	5.1	5
4	A surrogate model based on feature selection techniques and regression learners to improve soybean yield prediction in southern France. <i>Computers and Electronics in Agriculture</i> , 2022, 192, 106578.	7.7	17
5	Incorporating energy cover crops for biogas production into agricultural systems: benefits and environmental impacts. A review. <i>Agronomy for Sustainable Development</i> , 2022, 42, .	5.3	9
6	Introducing and expanding cover crops at the watershed scale: Impact on water flows. <i>Agriculture, Ecosystems and Environment</i> , 2022, 337, 108050.	5.3	3
7	Estimating the carbon storage potential and greenhouse gas emissions of French arable cropland using high-resolution modeling. <i>Global Change Biology</i> , 2021, 27, 1645-1661.	9.5	41
8	A method to assess the impact of soil available water capacity uncertainty on crop models with a tipping-bucket approach. <i>European Journal of Soil Science</i> , 2020, 71, 369-381.	3.9	4
9	Analysis of soybean germination, emergence, and prediction of a possible northward establishment of the crop under climate change. <i>European Journal of Agronomy</i> , 2020, 113, 125972.	4.1	49
10	Uncertainties in simulating N uptake, net N mineralization, soil mineral N and N leaching in European crop rotations using process-based models. <i>Field Crops Research</i> , 2020, 255, 107863.	5.1	23
11	AqYield-N: A simple model to predict nitrogen leaching from crop fields. <i>Agricultural and Forest Meteorology</i> , 2020, 284, 107890.	4.8	6
12	Cover crops reduce drainage but not always soil water content due to interactions between rainfall distribution and management. <i>Agricultural Water Management</i> , 2020, 231, 105998.	5.6	28
13	Management and spatial resolution effects on yield and water balance at regional scale in crop models. <i>Agricultural and Forest Meteorology</i> , 2019, 275, 184-195.	4.8	22
14	Will climate change affect sugar beet establishment of the 21st century? Insights from a simulation study using a crop emergence model. <i>Field Crops Research</i> , 2019, 238, 64-73.	5.1	11
15	Simulation of maize evapotranspiration: An inter-comparison among 29 maize models. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 264-284.	4.8	62
16	Modeling Cropping Systems with HERMES-Model Capability, Deficits and Data Requirements. <i>Advances in Agricultural Systems Modeling</i> , 2019, , 103-126.	0.3	1
17	Effects of input data aggregation on simulated crop yields in temperate and Mediterranean climates. <i>European Journal of Agronomy</i> , 2019, 103, 32-46.	4.1	16
18	Cover crops reduce water drainage in temperate climates: A meta-analysis. <i>Agronomy for Sustainable Development</i> , 2019, 39, 1.	5.3	49

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19	Cover crops mitigate direct greenhouse gases balance but reduce drainage under climate change scenarios in temperate climate with dry summers. <i>Global Change Biology</i> , 2018, 24, 2513-2529.	9.5	41
20	Analysis and modeling of cover crop emergence: Accuracy of a static model and the dynamic STICS soil-crop model. <i>European Journal of Agronomy</i> , 2018, 93, 73-81.	4.1	25
21	How to Address the Sustainability Transition of Farming Systems? A Conceptual Framework to Organize Research. <i>Sustainability</i> , 2018, 10, 2083.	3.2	27
22	Predicting water balance of wheat and crop rotations with a simple model: AqYield. <i>Agricultural and Forest Meteorology</i> , 2018, 262, 412-422.	4.8	6
23	Impact analysis of climate data aggregation at different spatial scales on simulated net primary productivity for croplands. <i>European Journal of Agronomy</i> , 2017, 88, 41-52.	4.1	27
24	Multi-model uncertainty analysis in predicting grain N for crop rotations in Europe. <i>European Journal of Agronomy</i> , 2017, 84, 152-165.	4.1	35
25	Performance of process-based models for simulation of grain N in crop rotations across Europe. <i>Agricultural Systems</i> , 2017, 154, 63-77.	6.1	43
26	The implication of input data aggregation on up-scaling soil organic carbon changes. <i>Environmental Modelling and Software</i> , 2017, 96, 361-377.	4.5	28
27	Impact of Spatial Soil and Climate Input Data Aggregation on Regional Yield Simulations. <i>PLoS ONE</i> , 2016, 11, e0151782.	2.5	78
28	Virtual modeling based on deep phenotyping provides complementary data to field experiments to predict plant emergence in oilseed rape genotypes. <i>European Journal of Agronomy</i> , 2016, 79, 90-99.	4.1	18
29	Spatial sampling of weather data for regional crop yield simulations. <i>Agricultural and Forest Meteorology</i> , 2016, 220, 101-115.	4.8	35
30	Evaluating the precision of eight spatial sampling schemes in estimating regional means of simulated yield for two crops. <i>Environmental Modelling and Software</i> , 2016, 80, 100-112.	4.5	26
31	Accuracy, robustness and behavior of the STICS soil-crop model for plant, water and nitrogen outputs: Evaluation over a wide range of agro-environmental conditions in France. <i>Environmental Modelling and Software</i> , 2015, 64, 177-190.	4.5	147
32	Large-scale assessment of optimal emergence and destruction dates for cover crops to reduce nitrate leaching in temperate conditions using the STICS soil-crop model. <i>European Journal of Agronomy</i> , 2015, 69, 75-87.	4.1	35
33	Catch crop emergence success depends on weather and soil seedbed conditions in interaction with sowing date: A simulation study using the SIMPLE emergence model. <i>Field Crops Research</i> , 2015, 176, 22-33.	5.1	42
34	The soil-crop models STICS and AqYield predict yield and soil water content for irrigated crops equally well with limited data. <i>Agricultural and Forest Meteorology</i> , 2015, 206, 55-68.	4.8	53
35	Crop rotation modelling—a European model intercomparison. <i>European Journal of Agronomy</i> , 2015, 70, 98-111.	4.1	125
36	Effect of weather data aggregation on regional crop simulation for different crops, production conditions, and response variables. <i>Climate Research</i> , 2015, 65, 141-157.	1.1	43

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37	Variability of effects of spatial climate data aggregation on regional yield simulation by crop models. <i>Climate Research</i> , 2015, 65, 53-69.	1.1	39
38	Long-term nitrogen dynamics in various catch crop scenarios: Test and simulations with STICS model in a temperate climate. <i>Agriculture, Ecosystems and Environment</i> , 2012, 147, 36-46.	5.3	86
39	Cumulative effects of catch crops on nitrogen uptake, leaching and net mineralization. <i>Plant and Soil</i> , 2011, 341, 137-154.	3.7	81
40	Effects of catch crops, no till and reduced nitrogen fertilization on nitrogen leaching and balance in three long-term experiments. <i>Agriculture, Ecosystems and Environment</i> , 2010, 135, 268-278.	5.3	246
41	Changes in plant morphology and dry matter partitioning caused by potassium deficiency in <i>Gossypium hirsutum</i> (L.). <i>Environmental and Experimental Botany</i> , 2010, 67, 451-459.	4.2	124
42	Effect of carbon assimilation on dry weight production and partitioning during vegetative growth. <i>Plant and Soil</i> , 2009, 324, 329-343.	3.7	40