

Eric Justes

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107
papers

5,664
citations

39
h-index

74
g-index

116
ext. papers

6,970
ext. citations

5.4
avg. IF

5.63
L-index

#	Paper	IF	Citations
107	The first calibration and evaluation of the STICS soil-crop model on chickpea-based intercropping system under Mediterranean conditions. <i>European Journal of Agronomy</i> , 2022 , 133, 126449	5	2
106	The sensitivity of C and N mineralization to soil water potential varies with soil characteristics: Experimental evidences to fine-tune models. <i>Geoderma</i> , 2022 , 409, 115644	6.7	
105	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	5	0
104	Cover crops maintain or improve agronomic performances of maize monoculture during the transition period from conventional to no-tillage. <i>Field Crops Research</i> , 2022 , 283, 108540	5.5	0
103	Cultivar Grain Yield in Durum Wheat-Grain Legume Intercrops Could Be Estimated From Sole Crop Yields and Interspecific Interaction Index. <i>Frontiers in Plant Science</i> , 2021 , 12, 733705	6.2	3
102	Plant nitrogen nutrition status in intercrops: A review of concepts and methods. <i>European Journal of Agronomy</i> , 2021 , 124, 126229	5	6
101	Multi-model evaluation of phenology prediction for wheat in Australia. <i>Agricultural and Forest Meteorology</i> , 2021 , 298-299, 108289	5.8	5
100	How well do crop modeling groups predict wheat phenology, given calibration data from the target population?. <i>European Journal of Agronomy</i> , 2021 , 124, 126195	5	11
99	The Influence of Grain Legume and Tillage Strategies on CO ₂ and N ₂ O Gas Exchange under Varied Environmental Conditions. <i>Agriculture (Switzerland)</i> , 2021 , 11, 464	3	1
98	THE 4 C APPROACH AS A WAY TO UNDERSTAND SPECIES INTERACTIONS DETERMINING INTERCROPPING PRODUCTIVITY. <i>Frontiers of Agricultural Science and Engineering</i> , 2021 ,	1.7	5
97	Design and multicriteria assessment of low-input cropping systems based on plant diversification in southwestern France. <i>Agronomy for Sustainable Development</i> , 2021 , 41, 1	6.8	1
96	The chaos in calibrating crop models: Lessons learned from a multi-model calibration exercise. <i>Environmental Modelling and Software</i> , 2021 , 145, 105206	5.2	3
95	Modelling climate change impacts on maize yields under low nitrogen input conditions in sub-Saharan Africa. <i>Global Change Biology</i> , 2020 , 26, 5942-5964	11.4	16
94	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	5.9	13
93	iCROPM 2020: Crop Modeling for the Future. <i>Journal of Agricultural Science</i> , 2020 , 158, 791-793	1	1
92	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
91	Contrasted response to climate change of winter and spring grain legumes in southwestern France. <i>Field Crops Research</i> , 2020 , 259, 107967	5.5	1

90	Calibration and evaluation of the STICS soil-crop model for faba bean to explain variability in yield and N ₂ fixation. <i>European Journal of Agronomy</i> , 2019 , 104, 63-77	5	15
89	Crucifer-legume cover crop mixtures for biocontrol: Toward a new multi-service paradigm. <i>Advances in Agronomy</i> , 2019 , 55-139	7.7	14
88	Current knowledge and future research opportunities for modeling annual crop mixtures. A review. <i>Agronomy for Sustainable Development</i> , 2019 , 39, 1	6.8	51
87	Cover crops reduce water drainage in temperate climates: A meta-analysis. <i>Agronomy for Sustainable Development</i> , 2019 , 39, 1	6.8	24
86	The Contributions of Legumes to Reducing the Environmental Risk of Agricultural Production 2019 , 123-143		11
85	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	11.4	20
84	Crucifer-legume cover crop mixtures provide effective sulphate catch crop and sulphur green manure services. <i>Plant and Soil</i> , 2018 , 426, 61-76	4.2	16
83	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	5	20
82	No-tillage reduces long-term yield-scaled soil nitrous oxide emissions in rainfed Mediterranean agroecosystems: A field and modelling approach. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 262, 36-47	5.7	23
81	Key variables for simulating leaf area and N status: Biomass based relations versus phenology driven approaches. <i>European Journal of Agronomy</i> , 2018 , 100, 110-117	5	13
80	Crucifer glucosinolate production in legume-crucifer cover crop mixtures. <i>European Journal of Agronomy</i> , 2018 , 96, 22-33	5	18
79	Peaks of in situ N O emissions are influenced by N O-producing and reducing microbial communities across arable soils. <i>Global Change Biology</i> , 2018 , 24, 360-370	11.4	59
78	Behaviour of S-metolachlor and its oxanilic and ethanesulfonic acids metabolites under fresh vs. partially decomposed cover crop mulches: A laboratory study. <i>Science of the Total Environment</i> , 2018 , 631-632, 1515-1524	10.2	7
77	Cover crop crucifer-legume mixtures provide effective nitrate catch crop and nitrogen green manure ecosystem services. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 254, 50-59	5.7	73
76	Carbon footprint of cropping systems with grain legumes and cover crops: A case-study in SW France. <i>Agricultural Systems</i> , 2018 , 167, 92-102	6.1	23
75	Sequential use of the STICS crop model and of the MACRO pesticide fate model to simulate pesticides leaching in cropping systems. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 6895-6909	5.1	14
74	Innovative cropping systems to reduce N inputs and maintain wheat yields by inserting grain legumes and cover crops in southwestern France. <i>European Journal of Agronomy</i> , 2017 , 82, 331-341	5	54
73	Sensitivity analysis of the STICS-MACRO model to identify cropping practices reducing pesticides losses. <i>Science of the Total Environment</i> , 2017 , 580, 117-129	10.2	9

72	Assessing human health risks from pesticide use in conventional and innovative cropping systems with the BROWSE model. <i>Environment International</i> , 2017 , 105, 66-78	12.9	20
71	Cover Crops for Sustainable Farming 2017 ,		7
70	Quantifying in situ and modeling net nitrogen mineralization from soil organic matter in arable cropping systems. <i>Soil Biology and Biochemistry</i> , 2017 , 111, 44-59	7.5	43
69	Sunflower crop: environmental-friendly and agroecological. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2017 , 24, D304	1.5	14
68	Precipitation gradient and crop management affect N ₂ O emissions: Simulation of mitigation strategies in rainfed Mediterranean conditions. <i>Agriculture, Ecosystems and Environment</i> , 2017 , 238, 89-103	5.7	15
67	Diversity of methodologies to experiment Integrated Pest Management in arable cropping systems: Analysis and reflections based on a European network. <i>European Journal of Agronomy</i> , 2017 , 83, 86-99	5	22
66	Main Lessons Drawn from the Analysis of the Literature 2017 , 13-39		1
65	Main Lessons Drawn from the Simulation Study 2017 , 41-81		
64	Phosphorus availability and microbial community in the rhizosphere of intercropped cereal and legume along a P-fertilizer gradient. <i>Plant and Soil</i> , 2016 , 407, 119-134	4.2	59
63	Low-input cropping systems to reduce input dependency and environmental impacts in maize production: A multi-criteria assessment. <i>European Journal of Agronomy</i> , 2016 , 76, 160-175	5	23
62	A conceptual model of farmers' decision-making process for nitrogen fertilization and irrigation of durum wheat. <i>European Journal of Agronomy</i> , 2016 , 73, 133-143	5	5
61	Cover crop mixtures including legume produce ecosystem services of nitrate capture and green manuring: assessment combining experimentation and modelling. <i>Plant and Soil</i> , 2016 , 401, 347-364	4.2	67
60	Fate of glyphosate and degradates in cover crop residues and underlying soil: A laboratory study. <i>Science of the Total Environment</i> , 2016 , 545-546, 582-90	10.2	26
59	A new plug-in under RECORD to link biophysical and decision models for crop management. <i>Agronomy for Sustainable Development</i> , 2016 , 36, 1	6.8	3
58	Grain legume-based rotations managed under conventional tillage need cover crops to mitigate soil organic matter losses. <i>Soil and Tillage Research</i> , 2016 , 156, 33-43	6.5	41
57	Determination of Germination Response to Temperature and Water Potential for a Wide Range of Cover Crop Species and Related Functional Groups. <i>PLoS ONE</i> , 2016 , 11, e0161185	3.7	48
56	N ₂ O emissions of low input cropping systems as affected by legume and cover crops use. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 224, 145-156	5.7	39
55	How to implement biodiversity-based agriculture to enhance ecosystem services: a review. <i>Agronomy for Sustainable Development</i> , 2015 , 35, 1259-1281	6.8	248

54	Large-scale assessment of optimal emergence and destruction dates for cover crops to reduce nitrate leaching in temperate conditions using the STICS soildrop model. <i>European Journal of Agronomy</i> , 2015 , 69, 75-87	5	22
53	Cover crops mitigate nitrate leaching in cropping systems including grain legumes: Field evidence and model simulations. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 212, 1-12	5.7	66
52	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	5.5	28
51	Ecological principles underlying the increase of productivity achieved by cereal-grain legume intercrops in organic farming. A review. <i>Agronomy for Sustainable Development</i> , 2015 , 35, 911-935	6.8	298
50	Le semis trè précoce : une stratégie agronomique pour améliorer les performances du soja en France ?. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2015 , 22, D503	1.5	8
49	Enhancing Yields in Organic Crop Production by Eco-Functional Intensification. <i>Sustainable Agriculture Research</i> , 2015 , 4, 42	1	32
48	Modelling agroecosystem nitrogen functions provided by cover crop species in bispecific mixtures using functional traits and environmental factors. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 207, 218-228	5.7	22
47	Accuracy, robustness and behavior of the STICS soildrop 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	5.2	116
46	Temporal variation in soil physical properties improves the water dynamics modeling in a conventionally-tilled soil. <i>Geoderma</i> , 2015 , 243-244, 18-28	6.7	36
45	Nature and decomposition degree of cover crops influence pesticide sorption: quantification and modelling. <i>Chemosphere</i> , 2015 , 119, 1007-1014	8.4	14
44	A functional characterisation of a wide range of cover crop species: growth and nitrogen acquisition rates, leaf traits and ecological strategies. <i>PLoS ONE</i> , 2015 , 10, e0122156	3.7	65
43	Is there an associational resistance of winter pea durum wheat intercrops towards <i>Acyrtosiphon pisum</i> Harris?. <i>Journal of Applied Entomology</i> , 2014 , 138, 577-585	1.7	13
42	Evolution of the STICS crop model to tackle new environmental issues: New formalisms and integration in the modelling and simulation platform RECORD. <i>Environmental Modelling and Software</i> , 2014 , 62, 370-384	5.2	25
41	Eco-functional Intensification by Cereal-Grain Legume Intercropping in Organic Farming Systems for Increased Yields, Reduced Weeds and Improved Grain Protein Concentration 2014 , 47-63		9
40	Simulating the long term impact of nitrate mitigation scenarios in a pilot study basin. <i>Agricultural Water Management</i> , 2013 , 124, 85-96	5.9	17
39	Pea/wheat intercrops in low-input conditions combine high economic performances and low environmental impacts. <i>European Journal of Agronomy</i> , 2012 , 40, 39-53	5	117
38	A species-specific critical nitrogen dilution curve for sunflower (<i>Helianthus annuus</i> L.). <i>Field Crops Research</i> , 2012 , 136, 76-84	5.5	39
37	Predicting soil water and mineral nitrogen contents with the STICS model for estimating nitrate leaching under agricultural fields. <i>Agricultural Water Management</i> , 2012 , 107, 54-65	5.9	33

36	Tillage and fallow period management effects on the fate of the herbicide isoxaflutole in an irrigated continuous-maize field. <i>Agriculture, Ecosystems and Environment</i> , 2012 , 153, 40-49	5.7	8
35	Effects of tillage and fallow period management on soil physical behaviour and maize development. <i>Agricultural Water Management</i> , 2011 , 102, 74-85	5.9	29
34	Understanding nitrogen transfer dynamics in a small agricultural catchment: Comparison of a distributed (TNT2) and a semi distributed (SWAT) modeling approaches. <i>Journal of Hydrology</i> , 2011 , 406, 1-15	6	69
33	Methodological comparison of calibration procedures for durum wheat parameters in the STICS model. <i>European Journal of Agronomy</i> , 2011 , 35, 115-126	5	32
32	Radiation use efficiency and shoot:root dry matter partitioning in seedling growths and regrowth crops of lucerne (<i>Medicago sativa</i> L.) after spring and autumn sowings. <i>European Journal of Agronomy</i> , 2011 , 35, 255-268	5	22
31	A comparison of commonly used indices for evaluating species interactions and intercrop efficiency: Application to durum wheat-winter pea intercrops. <i>Field Crops Research</i> , 2011 , 124, 25-36	5.5	64
30	A package of parameter estimation methods and implementation for the STICS crop-soil model. <i>Environmental Modelling and Software</i> , 2011 , 26, 386-394	5.2	42
29	Mutual Legume Intercropping for Forage Production in Temperate Regions. <i>Sustainable Agriculture Reviews</i> , 2011 , 347-365	1.3	12
28	The efficiency of a durum wheat-winter pea intercrop to improve yield and wheat grain protein concentration depends on N availability during early growth. <i>Plant and Soil</i> , 2010 , 330, 19-35	4.2	129
27	Dynamic analysis of competition and complementarity for light and N use to understand the yield and the protein content of a durum wheat-winter pea intercrop. <i>Plant and Soil</i> , 2010 , 330, 37-54	4.2	104
26	Designing crop management systems by simulation. <i>European Journal of Agronomy</i> , 2010 , 32, 3-9	5	94
25	Quantifying and modelling C and N mineralization kinetics of catch crop residues in soil: parameterization of the residue decomposition module of STICS model for mature and non mature residues. <i>Plant and Soil</i> , 2009 , 325, 171-185	4.2	80
24	Evaluation of the impact of various agricultural practices on nitrate leaching under the root zone of potato and sugar beet using the STICS soil-crop model. <i>Science of the Total Environment</i> , 2008 , 394, 207-211	10.2	58
23	Irrigation practices may affect denitrification more than nitrogen mineralization in warm climatic conditions. <i>Biology and Fertility of Soils</i> , 2007 , 43, 641-651	6.1	30
22	Relationship Between the Normalized SPAD Index and the Nitrogen Nutrition Index: Application to Durum Wheat. <i>Journal of Plant Nutrition</i> , 2006 , 29, 75-92	2.3	130
21	Characterisation and modelling of white mustard (<i>Sinapis alba</i> L.) emergence under several sowing conditions. <i>European Journal of Agronomy</i> , 2005 , 23, 146-158	5	42
20	Evaluation of the ability of the crop model STICS to recommend nitrogen fertilisation rates according to agro-environmental criteria. <i>Agronomy for Sustainable Development</i> , 2004 , 24, 339-349		36
19	An overview of the crop model stics. <i>European Journal of Agronomy</i> , 2003 , 18, 309-332	5	702

18	Influence of summer sowing dates, N fertilization and irrigation on autumn VSP accumulation and dynamics of spring regrowth in alfalfa (<i>Medicago sativa</i> L.). <i>Journal of Experimental Botany</i> , 2002 , 53, 111-121	7	30
17	STICS: a generic model for simulating crops and their water and nitrogen balances. II. Model validation for wheat and maize. <i>Agronomy for Sustainable Development</i> , 2002 , 22, 69-92		199
16	Effect of crop nitrogen status and temperature on the radiation use efficiency of winter oilseed rape. <i>European Journal of Agronomy</i> , 2000 , 13, 165-177	5	45
15	Decomposition in the field of residues of oilseed rape grown at two levels of nitrogen fertilisation. Effects on the dynamics of soil mineral nitrogen between successive crops. <i>Nutrient Cycling in Agroecosystems</i> , 2000 , 56, 125-137	3.3	48
14	Integrated Control of Nitrate Uptake by Crop Growth Rate and Soil Nitrate Availability under Field Conditions. <i>Annals of Botany</i> , 2000 , 86, 995-1005	4.1	76
13	Mesure du taux de couverture du sol pour estimer les principales caractéristiques d'une culture de colza avant montaison. <i>Oleagineux Corps Gras Lipides</i> , 2000 , 7, 18-19		1
12	Calculation of nitrogen mineralization and leaching in fallow soil using a simple dynamic model. <i>European Journal of Soil Science</i> , 1999 , 50, 549-566	3.4	89
11	Comparing the effectiveness of radish cover crop, oilseed rape volunteers and oilseed rape residues incorporation for reducing nitrate leaching. <i>Nutrient Cycling in Agroecosystems</i> , 1999 , 55, 207-220	3.3	51
10	Nitrous oxide emissions under different soil and land management conditions. <i>Biology and Fertility of Soils</i> , 1998 , 26, 199-207	6.1	86
9	Development and evaluation of a CERES-type model for winter oilseed rape. <i>Field Crops Research</i> , 1998 , 57, 95-111	5.5	108
8	A model of leaf area development and senescence for winter oilseed rape. <i>Field Crops Research</i> , 1998 , 57, 209-222	5.5	57
7	Determination of a Critical Nitrogen Dilution Curve for Winter Oilseed Rape. <i>Annals of Botany</i> , 1998 , 81, 311-317	4.1	155
6	Determination of a Critical Nitrogen Dilution Curve for Winter Wheat Crops. <i>Annals of Botany</i> , 1994 , 74, 397-407	4.1	446
5	Multi-model evaluation of phenology prediction for wheat in Australia		1
4	The chaos in calibrating crop models		1
3	How well do crop modeling groups predict wheat phenology, given calibration data from the target population?		
2	Interspecific interactions regulate plant reproductive allometry in cereal-legume intercropping systems		1
1	Interspecific interactions regulate plant reproductive allometry in cereal-legume intercropping systems. <i>Journal of Applied Ecology</i> ,	5.8	1

