

# Eric Justes

## List of Publications by Citations

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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	An overview of the crop model stics. <i>European Journal of Agronomy</i> , <b>2003</b> , 18, 309-332	5	702
106	Determination of a Critical Nitrogen Dilution Curve for Winter Wheat Crops. <i>Annals of Botany</i> , <b>1994</b> , 74, 397-407	4.1	446
105	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , <b>2020</b> , 26, 119-188	11.4	399
104	Ecological principles underlying the increase of productivity achieved by cereal-grain legume intercrops in organic farming. A review. <i>Agronomy for Sustainable Development</i> , <b>2015</b> , 35, 911-935	6.8	298
103	How to implement biodiversity-based agriculture to enhance ecosystem services: a review. <i>Agronomy for Sustainable Development</i> , <b>2015</b> , 35, 1259-1281	6.8	248
102	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> , <b>2002</b> , 22, 69-92		199
101	Determination of a Critical Nitrogen Dilution Curve for Winter Oilseed Rape. <i>Annals of Botany</i> , <b>1998</b> , 81, 311-317	4.1	155
100	Relationship Between the Normalized SPAD Index and the Nitrogen Nutrition Index: Application to Durum Wheat. <i>Journal of Plant Nutrition</i> , <b>2006</b> , 29, 75-92	2.3	130
99	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> , <b>2010</b> , 330, 19-35	4.2	129
98	Pea-wheat intercrops in low-input conditions combine high economic performances and low environmental impacts. <i>European Journal of Agronomy</i> , <b>2012</b> , 40, 39-53	5	117
97	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> , <b>2015</b> , 64, 177-190	5.2	116
96	Development and evaluation of a CERES-type model for winter oilseed rape. <i>Field Crops Research</i> , <b>1998</b> , 57, 95-111	5.5	108
95	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> , <b>2010</b> , 330, 37-54	4.2	104
94	Designing crop management systems by simulation. <i>European Journal of Agronomy</i> , <b>2010</b> , 32, 3-9	5	94
93	Calculation of nitrogen mineralization and leaching in fallow soil using a simple dynamic model. <i>European Journal of Soil Science</i> , <b>1999</b> , 50, 549-566	3.4	89
92	Nitrous oxide emissions under different soil and land management conditions. <i>Biology and Fertility of Soils</i> , <b>1998</b> , 26, 199-207	6.1	86
91	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> , <b>2009</b> , 325, 171-185	4.2	80

90	Integrated Control of Nitrate Uptake by Crop Growth Rate and Soil Nitrate Availability under Field Conditions. <i>Annals of Botany</i> , <b>2000</b> , 86, 995-1005	4.1	76
89	Cover crop crucifer-legume mixtures provide effective nitrate catch crop and nitrogen green manure ecosystem services. <i>Agriculture, Ecosystems and Environment</i> , <b>2018</b> , 254, 50-59	5.7	73
88	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> , <b>2011</b> , 406, 1-15	6	69
87	Cover crop mixtures including legume produce ecosystem services of nitrate capture and green manuring: assessment combining experimentation and modelling. <i>Plant and Soil</i> , <b>2016</b> , 401, 347-364	4.2	67
86	Cover crops mitigate nitrate leaching in cropping systems including grain legumes: Field evidence and model simulations. <i>Agriculture, Ecosystems and Environment</i> , <b>2015</b> , 212, 1-12	5.7	66
85	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> , <b>2015</b> , 10, e0122156	3.7	65
84	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> , <b>2011</b> , 124, 25-36	5.5	64
83	Peaks of in situ N <sub>2</sub> O emissions are influenced by N <sub>2</sub> O-producing and reducing microbial communities across arable soils. <i>Global Change Biology</i> , <b>2018</b> , 24, 360-370	11.4	59
82	Phosphorus availability and microbial community in the rhizosphere of intercropped cereal and legume along a P-fertilizer gradient. <i>Plant and Soil</i> , <b>2016</b> , 407, 119-134	4.2	59
81	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> , <b>2008</b> , 394, 207-211	10.2	58
80	A model of leaf area development and senescence for winter oilseed rape. <i>Field Crops Research</i> , <b>1998</b> , 57, 209-222	5.5	57
79	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> , <b>2017</b> , 82, 331-341	5	54
78	Current knowledge and future research opportunities for modeling annual crop mixtures. A review. <i>Agronomy for Sustainable Development</i> , <b>2019</b> , 39, 1	6.8	51
77	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> , <b>1999</b> , 55, 207-220	2.3	51
76	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> , <b>2000</b> , 56, 125-137	3.3	48
75	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> , <b>2016</b> , 11, e0161185	3.7	48
74	Effect of crop nitrogen status and temperature on the radiation use efficiency of winter oilseed rape. <i>European Journal of Agronomy</i> , <b>2000</b> , 13, 165-177	5	45
73	Quantifying in situ and modeling net nitrogen mineralization from soil organic matter in arable cropping systems. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 111, 44-59	7.5	43

72	A package of parameter estimation methods and implementation for the STICS crop-soil model. <i>Environmental Modelling and Software</i> , <b>2011</b> , 26, 386-394	5.2	42
71	Characterisation and modelling of white mustard ( <i>Sinapis alba</i> L.) emergence under several sowing conditions. <i>European Journal of Agronomy</i> , <b>2005</b> , 23, 146-158	5	42
70	Grain legume-based rotations managed under conventional tillage need cover crops to mitigate soil organic matter losses. <i>Soil and Tillage Research</i> , <b>2016</b> , 156, 33-43	6.5	41
69	A species-specific critical nitrogen dilution curve for sunflower ( <i>Helianthus annuus</i> L.). <i>Field Crops Research</i> , <b>2012</b> , 136, 76-84	5.5	39
68	N <sub>2</sub> O emissions of low input cropping systems as affected by legume and cover crops use. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 224, 145-156	5.7	39
67	Temporal variation in soil physical properties improves the water dynamics modeling in a conventionally-tilled soil. <i>Geoderma</i> , <b>2015</b> , 243-244, 18-28	6.7	36
66	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> , <b>2004</b> , 24, 339-349		36
65	Predicting soil water and mineral nitrogen contents with the STICS model for estimating nitrate leaching under agricultural fields. <i>Agricultural Water Management</i> , <b>2012</b> , 107, 54-65	5.9	33
64	Enhancing Yields in Organic Crop Production by Eco-Functional Intensification. <i>Sustainable Agriculture Research</i> , <b>2015</b> , 4, 42	1	32
63	Methodological comparison of calibration procedures for durum wheat parameters in the STICS model. <i>European Journal of Agronomy</i> , <b>2011</b> , 35, 115-126	5	32
62	Irrigation practices may affect denitrification more than nitrogen mineralization in warm climatic conditions. <i>Biology and Fertility of Soils</i> , <b>2007</b> , 43, 641-651	6.1	30
61	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> , <b>2002</b> , 53, 111-121	7	30
60	Effects of tillage and fallow period management on soil physical behaviour and maize development. <i>Agricultural Water Management</i> , <b>2011</b> , 102, 74-85	5.9	29
59	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> , <b>2015</b> , 176, 22-33	5.5	28
58	Fate of glyphosate and degradates in cover crop residues and underlying soil: A laboratory study. <i>Science of the Total Environment</i> , <b>2016</b> , 545-546, 582-90	10.2	26
57	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> , <b>2014</b> , 62, 370-384	5.2	25
56	Cover crops reduce water drainage in temperate climates: A meta-analysis. <i>Agronomy for Sustainable Development</i> , <b>2019</b> , 39, 1	6.8	24
55	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> , <b>2018</b> , 262, 36-47	5.7	23

54	Low-input cropping systems to reduce input dependency and environmental impacts in maize production: A multi-criteria assessment. <i>European Journal of Agronomy</i> , <b>2016</b> , 76, 160-175	5	23
53	Carbon footprint of cropping systems with grain legumes and cover crops: A case-study in SW France. <i>Agricultural Systems</i> , <b>2018</b> , 167, 92-102	6.1	23
52	Large-scale assessment of optimal emergence and destruction dates for cover crops to reduce nitrate leaching in temperate conditions using the STICS soil-drop model. <i>European Journal of Agronomy</i> , <b>2015</b> , 69, 75-87	5	22
51	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> , <b>2017</b> , 83, 86-99	5	22
50	Modelling agroecosystem nitrogen functions provided by cover crop species in bispecific mixtures using functional traits and environmental factors. <i>Agriculture, Ecosystems and Environment</i> , <b>2015</b> , 207, 218-228	5.7	22
49	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> , <b>2011</b> , 35, 255-268	5	22
48	Assessing human health risks from pesticide use in conventional and innovative cropping systems with the BROWSE model. <i>Environment International</i> , <b>2017</b> , 105, 66-78	12.9	20
47	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> , <b>2018</b> , 24, 2513-2529	11.4	20
46	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> , <b>2018</b> , 93, 73-81	5	20
45	Crucifer glucosinolate production in legume-crucifer cover crop mixtures. <i>European Journal of Agronomy</i> , <b>2018</b> , 96, 22-33	5	18
44	Simulating the long term impact of nitrate mitigation scenarios in a pilot study basin. <i>Agricultural Water Management</i> , <b>2013</b> , 124, 85-96	5.9	17
43	Modelling climate change impacts on maize yields under low nitrogen input conditions in sub-Saharan Africa. <i>Global Change Biology</i> , <b>2020</b> , 26, 5942-5964	11.4	16
42	Crucifer-legume cover crop mixtures provide effective sulphate catch crop and sulphur green manure services. <i>Plant and Soil</i> , <b>2018</b> , 426, 61-76	4.2	16
41	Calibration and evaluation of the STICS soil-crop model for faba bean to explain variability in yield and N <sub>2</sub> fixation. <i>European Journal of Agronomy</i> , <b>2019</b> , 104, 63-77	5	15
40	Precipitation gradient and crop management affect N <sub>2</sub> O emissions: Simulation of mitigation strategies in rainfed Mediterranean conditions. <i>Agriculture, Ecosystems and Environment</i> , <b>2017</b> , 238, 89-103	5.7	15
39	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> , <b>2017</b> , 24, 6895-6909	5.1	14
38	Crucifer-legume cover crop mixtures for biocontrol: Toward a new multi-service paradigm. <i>Advances in Agronomy</i> , <b>2019</b> , 55-139	7.7	14
37	Sunflower crop: environmental-friendly and agroecological. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , <b>2017</b> , 24, D304	1.5	14

36	Nature and decomposition degree of cover crops influence pesticide sorption: quantification and modelling. <i>Chemosphere</i> , <b>2015</b> , 119, 1007-1014	8.4	14
35	Cover crops reduce drainage but not always soil water content due to interactions between rainfall distribution and management. <i>Agricultural Water Management</i> , <b>2020</b> , 231, 105998	5.9	13
34	Key variables for simulating leaf area and N status: Biomass based relations versus phenology driven approaches. <i>European Journal of Agronomy</i> , <b>2018</b> , 100, 110-117	5	13
33	Is there an associational resistance of winter pea durum wheat intercrops towards <i>Acyrtosiphon pisum</i> Harris?. <i>Journal of Applied Entomology</i> , <b>2014</b> , 138, 577-585	1.7	13
32	Mutual Legume Intercropping for Forage Production in Temperate Regions. <i>Sustainable Agriculture Reviews</i> , <b>2011</b> , 347-365	1.3	12
31	How well do crop modeling groups predict wheat phenology, given calibration data from the target population?. <i>European Journal of Agronomy</i> , <b>2021</b> , 124, 126195	5	11
30	The Contributions of Legumes to Reducing the Environmental Risk of Agricultural Production <b>2019</b> , 123-143		11
29	Sensitivity analysis of the STICS-MACRO model to identify cropping practices reducing pesticides losses. <i>Science of the Total Environment</i> , <b>2017</b> , 580, 117-129	10.2	9
28	Eco-functional Intensification by Cereal-Grain Legume Intercropping in Organic Farming Systems for Increased Yields, Reduced Weeds and Improved Grain Protein Concentration <b>2014</b> , 47-63		9
27	Le semis trè précoce: une stratégie agronomique pour améliorer les performances du soja en France ?. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , <b>2015</b> , 22, D503	1.5	8
26	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> , <b>2012</b> , 153, 40-49	5.7	8
25	Cover Crops for Sustainable Farming <b>2017</b> ,		7
24	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> , <b>2018</b> , 631-632, 1515-1524	10.2	7
23	How well do crop modeling groups predict wheat phenology, given calibration data from the target population?		
22	Plant nitrogen nutrition status in intercrops: a review of concepts and methods. <i>European Journal of Agronomy</i> , <b>2021</b> , 124, 126229	5	6
21	A conceptual model of farmers' decision-making process for nitrogen fertilization and irrigation of durum wheat. <i>European Journal of Agronomy</i> , <b>2016</b> , 73, 133-143	5	5
20	Multi-model evaluation of phenology prediction for wheat in Australia. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 298-299, 108289	5.8	5
19	THE 4 C APPROACH AS A WAY TO UNDERSTAND SPECIES INTERACTIONS DETERMINING INTERCROPPING PRODUCTIVITY. <i>Frontiers of Agricultural Science and Engineering</i> , <b>2021</b> ,	1.7	5

18	A new plug-in under RECORD to link biophysical and decision models for crop management. <i>Agronomy for Sustainable Development</i> , <b>2016</b> , 36, 1	6.8	3
17	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> , <b>2021</b> , 12, 733705	6.2	3
16	The chaos in calibrating crop models: Lessons learned from a multi-model calibration exercise. <i>Environmental Modelling and Software</i> , <b>2021</b> , 145, 105206	5.2	3
15	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> , <b>2022</b> , 133, 126449	5	2
14	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> , <b>2000</b> , 7, 18-19		1
13	Multi-model evaluation of phenology prediction for wheat in Australia		1
12	Main Lessons Drawn from the Analysis of the Literature <b>2017</b> , 13-39		1
11	iCROP M 2020: Crop Modeling for the Future. <i>Journal of Agricultural Science</i> , <b>2020</b> , 158, 791-793	1	1
10	The chaos in calibrating crop models		1
9	Contrasted response to climate change of winter and spring grain legumes in southwestern France. <i>Field Crops Research</i> , <b>2020</b> , 259, 107967	5.5	1
8	The Influence of Grain Legume and Tillage Strategies on CO <sub>2</sub> and N <sub>2</sub> O Gas Exchange under Varied Environmental Conditions. <i>Agriculture (Switzerland)</i> , <b>2021</b> , 11, 464	3	1
7	Interspecific interactions regulate plant reproductive allometry in cereal-legume intercropping systems		1
6	Interspecific interactions regulate plant reproductive allometry in cereal-legume intercropping systems. <i>Journal of Applied Ecology</i> ,	5.8	1
5	Design and multicriteria assessment of low-input cropping systems based on plant diversification in southwestern France. <i>Agronomy for Sustainable Development</i> , <b>2021</b> , 41, 1	6.8	1
4	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> , <b>2022</b> , 132, 126416	5	0
3	Cover crops maintain or improve agronomic performances of maize monoculture during the transition period from conventional to no-tillage. <i>Field Crops Research</i> , <b>2022</b> , 283, 108540	5.5	0
2	The sensitivity of C and N mineralization to soil water potential varies with soil characteristics: Experimental evidences to fine-tune models. <i>Geoderma</i> , <b>2022</b> , 409, 115644	6.7	
1	Main Lessons Drawn from the Simulation Study <b>2017</b> , 41-81		

