

Eric Justes

List of Publications by Year in descending order

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107
papers

8,294
citations

61984

43
h-index

49909

87
g-index

116
all docs

116
docs citations

116
times ranked

9209
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	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.	4.1	16
3	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.	5.1	2
4	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.	5.1	9
5	THE 4 C APPROACH AS A WAY TO UNDERSTAND SPECIES INTERACTIONS DETERMINING INTERCROPPING PRODUCTIVITY. <i>Frontiers of Agricultural Science and Engineering</i> , 2021, .	1.4	20
6	ENABLING CROP DIVERSIFICATION TO SUPPORT TRANSITIONS TOWARD MORE SUSTAINABLE EUROPEAN AGRIFOOD SYSTEMS. <i>Frontiers of Agricultural Science and Engineering</i> , 2021, .	1.4	6
7	Plant nitrogen nutrition status in intercropsâ€“ a review of concepts and methods. <i>European Journal of Agronomy</i> , 2021, 124, 126229.	4.1	19
8	Multi-model evaluation of phenology prediction for wheat in Australia. <i>Agricultural and Forest Meteorology</i> , 2021, 298-299, 108289.	4.8	17
9	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.	4.1	27
10	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	2
11	Interspecific interactions regulate plant reproductive allometry in cerealâ€“legume intercropping systems. <i>Journal of Applied Ecology</i> , 2021, 58, 2579-2589.	4.0	6
12	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.	5.3	11
13	The chaos in calibrating crop models: Lessons learned from a multi-model calibration exercise. <i>Environmental Modelling and Software</i> , 2021, 145, 105206.	4.5	31
14	TRANSLATING THE MULTIACTOR APPROACH TO RESEARCH INTO PRACTICE USING A WORKSHOP APPROACH FOCUSING ON SPECIES MIXTURES. <i>Frontiers of Agricultural Science and Engineering</i> , 2021, .	1.4	4
15	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.	3.6	12
16	TRY plant trait database â€“ enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
17	Contrasted response to climate change of winter and spring grain legumes in southwestern France. <i>Field Crops Research</i> , 2020, 259, 107967.	5.1	5
18	Modelling climate change impacts on maize yields under low nitrogen input conditions in subâ€“Saharan Africa. <i>Global Change Biology</i> , 2020, 26, 5942-5964.	9.5	60

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19	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
20	iCROP 2020: Crop Modeling for the Future. <i>Journal of Agricultural Science</i> , 2020, 158, 791-793.	1.3	6
21	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.	4.1	25
22	Crucifer-legume cover crop mixtures for biocontrol: Toward a new multi-service paradigm. <i>Advances in Agronomy</i> , 2019, , 55-139.	5.2	33
23	Current knowledge and future research opportunities for modeling annual crop mixtures. A review. <i>Agronomy for Sustainable Development</i> , 2019, 39, 1.	5.3	87
24	Cover crops reduce water drainage in temperate climates: A meta-analysis. <i>Agronomy for Sustainable Development</i> , 2019, 39, 1.	5.3	49
25	The Contributions of Legumes to Reducing the Environmental Risk of Agricultural Production. , 2019, , 123-143.		27
26	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
27	Crucifer-legume cover crop mixtures provide effective sulphate catch crop and sulphur green manure services. <i>Plant and Soil</i> , 2018, 426, 61-76.	3.7	31
28	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
29	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.	5.3	37
30	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.	4.1	21
31	Crucifer glucosinolate production in legume-crucifer cover crop mixtures. <i>European Journal of Agronomy</i> , 2018, 96, 22-33.	4.1	22
32	Peaks of in situ N ₂ O emissions are influenced by N ₂ O-producing and reducing microbial communities across arable soils. <i>Global Change Biology</i> , 2018, 24, 360-370.	9.5	109
33	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.	5.3	121
34	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	45
35	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.	8.0	9
36	Improving access to research outcomes for innovation in agriculture and forestry: the VALERIE project. <i>Italian Journal of Agronomy</i> , 2017, 12, .	1.0	3

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37	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.	5.3	17
38	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.	4.1	98
39	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.	8.0	12
40	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.	10.0	26
41	Cover Crops for Sustainable Farming. , 2017, , .		14
42	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.	8.8	68
43	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.	5.3	26
44	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.	4.1	36
45	Sunflower crop: environmental-friendly and agroecological. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2017, 24, D304.	1.4	29
46	Main Lessons Drawn from the Analysis of the Literature. , 2017, , 13-39.		2
47	Main Lessons Drawn from the Simulation Study. , 2017, , 41-81.		0
48	Study Context and Methodology. , 2017, , 1-12.		0
49	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.	5.3	51
50	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.	3.7	83
51	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.	4.1	30
52	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.	4.1	6
53	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.	3.7	93
54	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, 582-590.	8.0	37

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55	A new plug-in under RECORD to link biophysical and decision models for crop management. <i>Agronomy for Sustainable Development</i> , 2016, 36, 1.	5.3	3
56	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.	5.6	61
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.	2.5	72
58	Le semis trÃ©s prÃ©coce: une stratÃ©gie agronomique pour amÃ©liorer les performances du soja en France ?. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2015, 22, D503.	1.4	15
59	Enhancing Yields in Organic Crop Production by Eco-Functional Intensification. <i>Sustainable Agriculture Research</i> , 2015, 4, 42.	0.3	41
60	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.	5.3	26
61	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
62	Temporal variation in soil physical properties improves the water dynamics modeling in a conventionally-tilled soil. <i>Geoderma</i> , 2015, 243-244, 18-28.	5.1	58
63	Nature and decomposition degree of cover crops influence pesticide sorption: Quantification and modelling. <i>Chemosphere</i> , 2015, 119, 1007-1014.	8.2	18
64	How to implement biodiversity-based agriculture to enhance ecosystem services: a review. <i>Agronomy for Sustainable Development</i> , 2015, 35, 1259-1281.	5.3	388
65	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
66	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.	5.3	84
67	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
68	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.	5.3	453
69	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.	2.5	99
70	Is there an associational resistance of winter pea-durum wheat intercrops towards <i>Acyrtosiphon pisum</i> and <i>Hemiaris</i> ?. <i>Journal of Applied Entomology</i> , 2014, 138, 577-585.	1.8	14
71	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.	4.5	30
72	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.		12

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73	Simulating the long term impact of nitrate mitigation scenarios in a pilot study basin. <i>Agricultural Water Management</i> , 2013, 124, 85-96.	5.6	19
74	A species-specific critical nitrogen dilution curve for sunflower (<i>Helianthus annuus</i> L.). <i>Field Crops Research</i> , 2012, 136, 76-84.	5.1	50
75	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.	5.6	37
76	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.	5.3	10
77	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.	4.1	154
78	Effects of tillage and fallow period management on soil physical behaviour and maize development. <i>Agricultural Water Management</i> , 2011, 102, 74-85.	5.6	36
79	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.	5.4	80
80	Methodological comparison of calibration procedures for durum wheat parameters in the STICS model. <i>European Journal of Agronomy</i> , 2011, 35, 115-126.	4.1	39
81	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.	4.1	29
82	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.	5.1	105
83	A package of parameter estimation methods and implementation for the STICS crop-soil model. <i>Environmental Modelling and Software</i> , 2011, 26, 386-394.	4.5	53
84	Mutual Legume Intercropping for Forage Production in Temperate Regions. <i>Sustainable Agriculture Reviews</i> , 2011, , 347-365.	1.1	14
85	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.	3.7	157
86	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.	3.7	126
87	Designing crop management systems by simulation. <i>European Journal of Agronomy</i> , 2010, 32, 3-9.	4.1	115
88	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.	3.7	98
89	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, 207-221.	8.0	66
90	Irrigation practices may affect denitrification more than nitrogen mineralization in warm climatic conditions. <i>Biology and Fertility of Soils</i> , 2007, 43, 641-651.	4.3	32

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91	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.	1.9	159
92	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.	4.1	51
93	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.	0.8	44
94	An overview of the crop model stics. <i>European Journal of Agronomy</i> , 2003, 18, 309-332.	4.1	870
95	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.	4.8	32
96	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.	0.8	236
97	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.	0.2	1
98	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.	4.1	47
99	Title is missing!. <i>Nutrient Cycling in Agroecosystems</i> , 2000, 56, 125-137.	2.2	59
100	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.	2.9	100
101	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.	3.9	102
102	Title is missing!. <i>Nutrient Cycling in Agroecosystems</i> , 1999, 55, 207-220.	2.2	63
103	Nitrous oxide emissions under different soil and land management conditions. <i>Biology and Fertility of Soils</i> , 1998, 26, 199-207.	4.3	107
104	Development and evaluation of a CERES-type model for winter oilseed rape. <i>Field Crops Research</i> , 1998, 57, 95-111.	5.1	118
105	A model of leaf area development and senescence for winter oilseed rape. <i>Field Crops Research</i> , 1998, 57, 209-222.	5.1	62
106	Determination of a Critical Nitrogen Dilution Curve for Winter Oilseed Rape. <i>Annals of Botany</i> , 1998, 81, 311-317.	2.9	188
107	Determination of a Critical Nitrogen Dilution Curve for Winter Wheat Crops. <i>Annals of Botany</i> , 1994, 74, 397-407.	2.9	571