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List of Publications by Year
in descending order

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Version: 2024-02-01

85	3,188	136885	168321
papers	citations	32 h-index	53 g-index

86	86	86	3963
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	EX-TRACT: An excel tool for the estimation of standard deviations from published articles. Environmental Modelling and Software, 2022, 147, 105236.	1.9	5
2	Zero-Tillage Effects on Durum Wheat Productivity and Soil-Related Variables in Future Climate Scenarios: A Modeling Analysis. Agronomy, 2022, 12, 331.	1.3	7
3	Validating the regional estimates of changes in soil organic carbon by using the data from paired-sites: the case study of Mediterranean arable lands. Carbon Balance and Management, 2021, 16, 19.	1.4	3
4	Reducing Topdressing N Fertilization with Variable Rates Does Not Reduce Maize Yield. Sustainability, 2021, 13, 8059.	1.6	5
5	New pedotransfer approaches to predict soil bulk density using WoSIS soil data and environmental covariates in Mediterranean agro-ecosystems. Science of the Total Environment, 2021, 780, 146609.	3.9	29
6	Soil type and cropping system as drivers of soil quality indicators response to no-till: A 7-year field study. Applied Soil Ecology, 2020, 155, 103646.	2.1	16
7	Can conservation agriculture increase soil carbon sequestration? A modelling approach. Geoderma, 2020, 369, 114298.	2.3	63
8	The Nitrification Inhibitor VizuraÂ® Reduces N2O Emissions When Added to Digestate before Injection under Irrigated Maize in the Po Valley (Northern Italy). Agronomy, 2019, 9, 431.	1.3	12
9	A simple pipeline for the assessment of legacy soil datasets: An example and test with soil organic carbon from a highly variable area. Catena, 2019, 175, 110-122.	2.2	12
10	Agro-environmental aspects of conservation agriculture compared to conventional systems: A 3-year experience on 20 farms in the Po valley (Northern Italy). Agricultural Systems, 2019, 168, 73-87.	3.2	34
11	Classifying multi-model wheat yield impact response surfaces showing sensitivity to temperature and precipitation change. Agricultural Systems, 2018, 159, 209-224.	3.2	47
12	Epidemiology and agronomic predictors of herbicide resistance in rice at a large scale. Agronomy for Sustainable Development, 2018, 38, 1.	2.2	13
13	Spatio-temporal topsoil organic carbon mapping of a semi-arid Mediterranean region: The role of land use, soil texture, topographic indices and the influence of remote sensing data to modelling. Science of the Total Environment, 2017, 601-602, 821-832.	3.9	122
14	Forecasting sugarcane yields using agro-climatic indicators and Canegro model: A case study in the main production region in Brazil. Agricultural Systems, 2017, 154, 45-52.	3.2	41
15	Modelling the topsoil carbon stock of agricultural lands with the Stochastic Gradient Treeboost in a semi-arid Mediterranean region. Geoderma, 2017, 286, 35-45.	2.3	48
16	Multi-model simulation of soil temperature, soil water content and biomass in Euro-Mediterranean grasslands: Uncertainties and ensemble performance. European Journal of Agronomy, 2017, 88, 22-40.	1.9	58
17	Uncertainty in crop model predictions: What is the role of users?. Environmental Modelling and Software, 2016, 81, 165-173.	1.9	62
18	A taxonomy-based approach to shed light on the babel of mathematical models for rice simulation. Environmental Modelling and Software, 2016, 85, 332-341.	1.9	18

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19	Avoiding social traps in the ecosystem stewardship: The Italian Fontanile lowland spring. Science of the Total Environment, 2016, 539, 526-535.	3.9	15
20	Dynamics of ammonia volatilisation measured by eddy covariance during slurry spreading in north Italy. Agriculture, Ecosystems and Environment, 2016, 219, 1-13.	2.5	17
21	Quantifying uncertainty in crop model predictions due to the uncertainty in the observations used for calibration. Ecological Modelling, 2016, 328, 72-77.	1.2	33
22	Short-term experiments in using digestate products as substitutes for mineral (N) fertilizer: Agronomic performance, odours, and ammonia emission impacts. Science of the Total Environment, 2016, 547, 206-214.	3.9	144
23	Improving inÂvivo plant nitrogen content estimates from digital images: Trueness and precision of a new approach as compared to other methods and commercial devices. Biosystems Engineering, 2015, 135, 21-30.	1.9	29
24	District specific, in silico evaluation of rice ideotypes improved for resistance/tolerance traits to biotic and abiotic stressors under climate change scenarios. Climatic Change, 2015, 132, 661-675.	1.7	14
25	A new method for analysing the interrelationship between performance indicators with an application to agrometeorological models. Environmental Modelling and Software, 2015, 73, 286-304.	1.9	5
26	Deliberative processes for comprehensive evaluation of agroecological models. A review. Agronomy for Sustainable Development, 2015, 35, 589-605.	2.2	16
27	New multi-model approach gives good estimations of wheat yield under semi-arid climate in Morocco. Agronomy for Sustainable Development, 2015, 35, 157-167.	2.2	35
28	Temperature and precipitation effects on wheat yield across a European transect: a crop model ensemble analysis using impact response surfaces. Climate Research, 2015, 65, 87-105.	0.4	122
29	Impact of Agromanagement Practices on Rice Elongation: Analysis and Modelling. Crop Science, 2014, 54, 2294-2302.	0.8	1
30	Performance assessment of nitrate leaching models for highly vulnerable soils used in low-input farming based on lysimeter data. Science of the Total Environment, 2014, 499, 463-480.	3.9	35
31	Any chance to evaluate in vivo field methods using standard protocols?. Field Crops Research, 2014, 161, 128-136.	2.3	5
32	A generic framework for evaluating hybrid models by reuse and composition â€“ A case study on soil temperature simulation. Environmental Modelling and Software, 2014, 62, 478-486.	1.9	19
33	Evaluation of WARM for different establishment techniques in Jiangsu (China). European Journal of Agronomy, 2014, 59, 78-85.	1.9	8
34	ValorE: An integrated and GIS-based decision support system for livestock manure management in the Lombardy region (northern Italy). Land Use Policy, 2014, 41, 149-162.	2.5	34
35	Designing a high-yielding maize ideotype for a changing climate in Lombardy plain (northern Italy). Science of the Total Environment, 2014, 499, 497-509.	3.9	24
36	Model simplification and development via reuse, sensitivity analysis and composition: A case study in crop modelling. Environmental Modelling and Software, 2014, 59, 44-58.	1.9	43

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37	Wheat modeling in Morocco unexpectedly reveals predominance of photosynthesis versus leaf area expansion plant traits. Agronomy for Sustainable Development, 2013, 33, 393-403.	2.2	7
38	Development of an app for estimating leaf area index using a smartphone. Trueness and precision determination and comparison with other indirect methods. Computers and Electronics in Agriculture, 2013, 96, 67-74.	3.7	130
39	Inverse dispersion modelling highlights the efficiency of slurry injection to reduce ammonia losses by agriculture in the Po Valley (Italy). Agricultural and Forest Meteorology, 2013, 171-172, 306-318.	1.9	26
40	A multi-approach software library for estimating crop suitability to environment. Computers and Electronics in Agriculture, 2013, 90, 170-175.	3.7	16
41	Modelling nitrogen leaching from sewage sludge application to arable land in the Lombardy region (northern Italy). Science of the Total Environment, 2013, 461-462, 509-518.	3.9	14
42	Origin and fate of nitrates in groundwater from the central Po plain: Insights from isotopic investigations. Applied Geochemistry, 2013, 34, 164-180.	1.4	90
43	Evaluation of mitigation strategies to reduce ammonia losses from slurry fertilisation on arable lands. Science of the Total Environment, 2013, 449, 126-133.	3.9	52
44	The development of a methodology using fuzzy logic to assess the performance of cropping systems based on a case study of maize in the Po Valley. Soil Use and Management, 2013, 29, 576-585.	2.6	9
45	Assimilation of COSMO-SkyMed-derived LAI maps into the AQUATER crop growth simulation model. Capitanata (Southern Italy) case study. European Journal of Remote Sensing, 2013, 46, 891-908.	1.7	14
46	A methodology for designing and evaluating alternative cropping systems: Application on dairy and arable farms. Ecological Indicators, 2012, 23, 189-201.	2.6	12
47	Long-term durum wheat monoculture: modelling and future projection. Italian Journal of Agronomy, 2012, 7, 13.	0.4	2
48	Nitrate leaching under maize cropping systems in Po Valley (Italy). Agriculture, Ecosystems and Environment, 2012, 147, 57-65.	2.5	135
49	Quantifying plasticity in simulation models. Ecological Modelling, 2012, 225, 159-166.	1.2	22
50	Perfunctory analysis of variance in agronomy, and its consequences in experimental results interpretation. European Journal of Agronomy, 2012, 43, 129-135.	1.9	40
51	Multi metric evaluation of leaf wetness models for large-area application of plant disease models. Agricultural and Forest Meteorology, 2011, 151, 1163-1172.	1.9	46
52	A new approach for determining rice critical nitrogen concentration. Journal of Agricultural Science, 2011, 149, 633-638.	0.6	18
53	Precision determination for the dynamic respirometric index (DRI) method used for biological stability evaluation on municipal solid waste and derived products. Waste Management, 2011, 31, 2-9.	3.7	31
54	A model for simulating the height of rice plants. European Journal of Agronomy, 2011, 34, 20-25.	1.9	29

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55	An analysis of agricultural sustainability of cropping systems in arable and dairy farms in an intensively cultivated plain. European Journal of Agronomy, 2011, 34, 71-82.	1.9	43
56	Topographic impacts on wheat yields under climate change: two contrasted case studies in Europe. Theoretical and Applied Climatology, 2010, 99, 53-65.	1.3	38
57	An integrated evaluation of thirteen modelling solutions for the generation of hourly values of air relative humidity. Theoretical and Applied Climatology, 2010, 102, 429-438.	1.3	33
58	Sensitivity analysis for a complex crop model applied to Durum wheat in the Mediterranean. European Journal of Agronomy, 2010, 32, 127-136.	1.9	76
59	A proposal of an indicator for quantifying model robustness based on the relationship between variability of errors and of explored conditions. Ecological Modelling, 2010, 221, 960-964.	1.2	45
60	Comparison of sensitivity analysis techniques: A case study with the rice model WARM. Ecological Modelling, 2010, 221, 1897-1906.	1.2	207
61	An integrated procedure to evaluate hydrological models. Hydrological Processes, 2010, 24, 2762-2770.	1.1	10
62	Sensitivity analysis of the rice model WARM in Europe: Exploring the effects of different locations, climates and methods of analysis on model sensitivity to crop parameters. Environmental Modelling and Software, 2010, 25, 479-488.	1.9	88
63	AQUATER Software as a DSS for Irrigation Management in Semi-Arid Mediterranean Areas. Italian Journal of Agronomy, 2010, 5, 205.	0.4	11
64	SWAP, CropSyst and MACRO comparison in two contrasting soils cropped with maize in Northern Italy. Agricultural Water Management, 2010, 97, 1051-1062.	2.4	71
65	A Component-Based Framework for Simulating Agricultural Production and Externalities. , 2010, , 63-108.		23
66	Multi-metric evaluation of the models WARM, CropSyst, and WOFOST for rice. Ecological Modelling, 2009, 220, 1395-1410.	1.2	103
67	Analysis of sample size for variables related to plant, soil, and soil microbial respiration in a paddy rice field. Field Crops Research, 2009, 113, 125-130.	2.3	13
68	Expanding Horizons in the Validation of GMO Analytical Methods: Fuzzy-based Expert Systems. Food Analytical Methods, 2008, 1, 126-135.	1.3	19
69	Modelling the point and non-point nitrogen loads to the Venice Lagoon (Italy): the application of water quality models to the Dese-Zero basin. Desalination, 2008, 226, 81-88.	4.0	26
70	Analytical Method Performance Evaluation (AMPE)A Software Tool for Analytical Method Validation. Journal of AOAC INTERNATIONAL, 2007, 90, 1432-1438.	0.7	13
71	Resampling-based software for estimating optimal sample size. Environmental Modelling and Software, 2007, 22, 1796-1800.	1.9	15
72	Integrating a spatial micrometeorological model into the risk assessment for arable crops in hilly terrain. , 2007, , 51-57.		8

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73	Analysis of rice sample size variability due to development stage, nitrogen fertilization, sowing technique and variety using the visual jackknife. Field Crops Research, 2006, 97, 135-141.	2.3	22
74	Decision Support Systems To Manage Water Resources At Irrigation District Level In Southern Italy Using Remote Sensing Information. An Integrated Project (AQUATER). AIP Conference Proceedings, 2006, , .	0.3	2
75	The CropSyst model to simulate the N balance of rice for alternative management. Agronomy for Sustainable Development, 2006, 26, 241-249.	2.2	32
76	New Indices to Quantify Patterns of Residuals Produced by Model Estimates. Agronomy Journal, 2004, 96, 631-645.	0.9	27
77	SOILPAR 2.00: software to estimate soil hydrological parameters and functions. European Journal of Agronomy, 2003, 18, 373-377.	1.9	83
78	irene: a software to evaluate model performance. European Journal of Agronomy, 2003, 18, 369-372.	1.9	76
79	Chloride profile technique to estimate water movement through unsatured zone in a cropped area in subhumid climate (Po Valleyâ€"NW Italy). Journal of Hydrology, 2003, 270, 65-74.	2.3	21
80	Dual-porosity and kinematic wave approaches to assess the degree of preferential flow in an unsaturated soil. Hydrological Sciences Journal, 2003, 48, 455-472.	1.2	34
81	IRENE_DLL: A Class Library for Evaluating Numerical Estimates. Agronomy Journal, 2003, 95, 1330-1333.	0.9	28
82	An Indicator of Solar Radiation Model Performance based on a Fuzzy Expert System. Agronomy Journal, 2002, 94, 1222-1233.	0.9	82
83	Stochastic use of the LEACHN model to forecast nitrate leaching in different maize cropping systems. European Journal of Agronomy, 2000, 13, 191-206.	1.9	36
84	Evolution of vegetation under intensive grazing: Two examples in North-western Italian mountains. Agriculture, Ecosystems and Environment, 1989, 27, 347-359.	2.5	0
85	Modelling of Soil Organic Carbon in the Mediterranean area: a systematic map. Rendiconti Online Societa Geologica Italiana, 0, 46, 161-166.	0.3	13