Marcello Donatelli

List of Publications by Year
in descending order

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47	4,372	186209	214721
papers	citations	28 h-index	47 g-index

47	47	47	4690
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	CropSyst, a cropping systems simulation model. European Journal of Agronomy, 2003, 18, 289-307.	1.9	1,051
2	Integrated assessment of agricultural systems â€“ A component-based framework for the European Union (SEAMLESS). Agricultural Systems, 2008, 96, 150-165.	3.2	401
3	Effects of climate change and elevated CO2 on cropping systems: model predictions at two Italian locations. European Journal of Agronomy, 2000, 13, 179-189.	1.9	296
4	Modelling the impacts of pests and diseases on agricultural systems. Agricultural Systems, 2017, 155, 213-224.	3.2	248
5	Crop response to elevated CO2 and world food supply. European Journal of Agronomy, 2007, 26, 215-223.	1.9	244
6	Comparison of sensitivity analysis techniques: A case study with the rice model WARM. Ecological Modelling, 2010, 221, 1897-1906.	1.2	207
7	Agricultural production systems modelling and software: Current status and future prospects. Environmental Modelling and Software, 2015, 72, 276-286.	1.9	165
8	Validation of biophysical models: issues and methodologies. A review. Agronomy for Sustainable Development, 2010, 30, 109-130.	2.2	161
9	Multi-metric evaluation of the models WARM, CropSyst, and WOFOST for rice. Ecological Modelling, 2009, 220, 1395-1410.	1.2	103
10	RadEst3.00: software to estimate daily radiation data from commonly available meteorological variables. European Journal of Agronomy, 2003, 18, 363-367.	1.9	101
11	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
12	Evaluation of CropSyst for cropping systems at two locations of northern and southern Italy. European Journal of Agronomy, 1997, 6, 35-45.	1.9	83
13	SOILPAR 2.00: software to estimate soil hydrological parameters and functions. European Journal of Agronomy, 2003, 18, 373-377.	1.9	83
14	An Indicator of Solar Radiation Model Performance based on a Fuzzy Expert System. Agronomy Journal, 2002, 94, 1222-1233.	0.9	82
15	Modelling cropping systemsâ€”highlights of the symposium and preface to the special issues. European Journal of Agronomy, 2003, 18, 187-197.	1.9	78
16	Increasing profits and reducing risks in crop production using participatory systems simulation approaches. Agricultural Systems, 2001, 70, 493-513.	3.2	76
17	irene: a software to evaluate model performance. European Journal of Agronomy, 2003, 18, 369-372.	1.9	76
18	An integrated assessment approach to conduct analyses of climate change impacts on whole-farm systems. Environmental Modelling and Software, 2007, 22, 202-210.	1.9	68

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19	Modelling, interpolation and stochastic simulation in space and time of global solar radiation. Agriculture, Ecosystems and Environment, 2000, 81, 29-42.	2.5	64
20	Genotype and Water Limitation Effects on Phenology, Growth, and Transpiration Efficiency in Grain Sorghum. Crop Science, 1992, 32, 781-786.	0.8	56
21	ELPIS: a dataset of local-scale daily climate scenarios for Europe. Climate Research, 2010, 44, 3-15.	0.4	51
22	Sharing knowledge via software components: Models on reference evapotranspiration. European Journal of Agronomy, 2006, 24, 186-192.	1.9	50
23	A software component for estimating solar radiation. Environmental Modelling and Software, 2006, 21, 411-416.	1.9	47
24	Semantic links in integrated modelling frameworks. Mathematics and Computers in Simulation, 2008, 78, 412-423.	2.4	46
25	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
26	Modelling soil borne fungal pathogens of arable crops under climate change. International Journal of Biometeorology, 2014, 58, 2071-2083.	1.3	34
27	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
28	A set of software components for the simulation of plant airborne diseases. Environmental Modelling and Software, 2015, 72, 426-444.	1.9	31
29	IRENE_DLL: A Class Library for Evaluating Numerical Estimates. Agronomy Journal, 2003, 95, 1330-1333.	0.9	28
30	Testing Denitrification Functions of Dynamic Crop Models. Journal of Environmental Quality, 1997, 26, 394-401.	1.0	25
31	Simulating kernel lot sampling: the effect of heterogeneity on the detection of GMO contaminations. Seed Science and Technology, 2003, 31, 629-638.	0.6	23
32	MIMYCS.Moisture, a process-based model of moisture content in developing maize kernels. European Journal of Agronomy, 2014, 59, 86-95.	1.9	23
33	An extensible model library for generating wind speed data. Computers and Electronics in Agriculture, 2009, 69, 165-170.	3.7	22
34	Evaluating the suitability of a generic fungal infection model for pest risk assessment studies. Ecological Modelling, 2012, 247, 58-63.	1.2	22
35	Identifying the most promising agronomic adaptation strategies for the tomato growing systems in Southern Italy via simulation modeling. European Journal of Agronomy, 2019, 111, 125937.	1.9	22
36	A dataset of future daily weather data for crop modelling over Europe derived from climate change scenarios. Theoretical and Applied Climatology, 2017, 127, 573-585.	1.3	21

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37	An auto-calibration procedure for empirical solar radiation models. Environmental Modelling and Software, 2013, 49, 118-128.	1.9	19
38	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
39	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
40	Comparison of modelling approaches to simulate the phenology of the European corn borer under future climate scenarios. Ecological Modelling, 2012, 245, 65-74.	1.2	13
41	A software component to compute agro-meteorological indicators. Environmental Modelling and Software, 2010, 25, 1485-1486.	1.9	12
42	Enriching environmental software model interfaces through ontology-based tools. International Journal of Applied Systemic Studies, 2011, 4, 94.	0.0	10
43	PTFIndicator: An IRENE_DLL-based application to evaluate estimates from pedotransfer functions by integrated indices. Environmental Modelling and Software, 2006, 21, 107-110.	1.9	9
44	A Library to Generate Synthetic Precipitation Data. Agronomy Journal, 2006, 98, 1312-1317.	0.9	6
45	Integrating Spatial Soil Organization Data with a Regional Agricultural Management Simulation Model: A Case Study in Northern Tunisia. Transactions of the ASABE, 2008, 51, 1099-1109.	1.1	6
46	ET_CSDLL. Agronomy Journal, 2003, 95, 1334-1336.	0.9	5
47	Balance sheet method assessment for nitrogen fertilization in winter wheat: II. alternative strategies using the CropSyst simulation model. Italian Journal of Agronomy, 2006, 1, 343.	0.4	4