Bruno Basso

List of Publications by Year in Descending Order

170 papers	9,342 citations	47 h-index	93 g-index
182 ext. papers	11,334 ext. citations	5.8 avg, IF	6.25 L-index

#	Paper	IF	Citations
170	Integrated spatially explicit landscape and cellulosic biofuel supply chain optimization under biomass yield uncertainty. *Computers and Chemical Engineering*, **2022**, 160, 107724	4	0
169	Subfield maize yield prediction improves when in-season crop water deficit is included in remote sensing imagery-based models. *Remote Sensing of Environment*, **2022**, 272, 112938	13.2	2
168	Reply to Amundson: Time to go to work.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2122842119	11.5	
167	Phosphorus availability and leaching losses in annual and perennial cropping systems in an upper US Midwest landscape. *Scientific Reports*, **2021**, 11, 20367	4.9	1
166	Contrasting long-term temperature trends reveal minor changes in projected potential evapotranspiration in the US Midwest. *Nature Communications*, **2021**, 12, 1476	17.4	9
165	Multi-model evaluation of phenology prediction for wheat in Australia. *Agricultural and Forest Meteorology*, **2021**, 298-299, 108289	5.8	5
164	Combining Remote Sensing and Crop Models to Assess the Sustainability of Stakeholder-Driven Groundwater Management in the US High Plains Aquifer. *Water Resources Research*, **2021**, 57, e2020WR027756	5.4	5
163	How well do crop modeling groups predict wheat phenology, given calibration data from the target population?. *European Journal of Agronomy*, **2021**, 124, 126195	5	11
162	Modeling spatial and temporal optimal N fertilizer rates to reduce nitrate leaching while improving grain yield and quality in malting barley. *Computers and Electronics in Agriculture*, **2021**, 182, 105997	6.5	7
161	Modeling soil organic carbon and yam yield under different agronomic management across spatial scales in Ghana. *Field Crops Research*, **2021**, 263, 108018	5.5	1
160	Subfield crop yields and temporal stability in thousands of US Midwest fields. *Precision Agriculture*, **2021**, 22, 1749-1767	5.6	2
159	Novel technologies for emission reduction complement conservation agriculture to achieve negative emissions from row-crop production. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	13
158	Predicting pasture biomass using a statistical model and machine learning algorithm implemented with remotely sensed imagery. *Computers and Electronics in Agriculture*, **2021**, 180, 105880	6.5	8
157	Machine learning improves predictions of agricultural nitrous oxide (N2O) emissions from intensively managed cropping systems. *Environmental Research Letters*, **2021**, 16, 024004	6.2	13
156	Evaluating high-resolution optical and thermal reflectance of maize interseeded with cover crops across spatial scales using remotely sensed imagery. *Agronomy Journal*, **2021**, 113, 2884-2899	2.2	0
155	Redefining marginal land for bioenergy crop production. *GCB Bioenergy*, **2021**, 13, 1590-1609	5.6	12
154	Enabling circularity in grain production systems with novel technologies and policy. *Agricultural Systems*, **2021**, 193, 103244	6.1	5

153	The chaos in calibrating crop models: Lessons learned from a multi-model calibration exercise. *Environmental Modelling and Software*, **2021**, 145, 105206	5.2	3
152	Remote Sensing: Advancing the Science and the Applications to Transform Agriculture. *IT Professional*, **2020**, 22, 42-45	1.9	12
151	Modelling climate change impacts on maize yields under low nitrogen input conditions in sub-Saharan Africa. *Global Change Biology*, **2020**, 26, 5942-5964	11.4	16
150	Field indicators of leaf nutritive value for perennial ryegrass and tall fescue pastures under different growing and management conditions. *Grass and Forage Science*, **2020**, 75, 159-168	2.3	2
149	Unstable crop yields reveal opportunities for site-specific adaptations to climate variability. *Scientific Reports*, **2020**, 10, 2885	4.9	12
148	Impacts of climate variability and adaptation strategies on crop yields and soil organic carbon in the US Midwest. *PLoS ONE*, **2020**, 15, e0225433	3.7	13
147	Linking field survey with crop modeling to forecast maize yield in smallholder farmers' fields in Tanzania. *Food Security*, **2020**, 12, 537-548	6.7	9
146	Ensemble modelling of carbon fluxes in grasslands and croplands. *Field Crops Research*, **2020**, 252, 107791	5.5	17
145	Leaching losses of dissolved organic carbon and nitrogen from agricultural soils in the upper US Midwest. *Science of the Total Environment*, **2020**, 734, 139379	10.2	12
144	Interseeding cover crops in corn: Establishment, biomass, and competitiveness in on-farm trials. *Agronomy Journal*, **2020**, 112, 3733-3743	2.2	8
143	Cover crops and weed suppression in the U.S. Midwest: A meta-analysis and modeling study. *Agricultural and Environmental Letters*, **2020**, 5, e20022	1.5	10
142	Predicting soil carbon changes in switchgrass grown on marginal lands under climate change and adaptation strategies. *GCB Bioenergy*, **2020**, 12, 742-755	5.6	12
141	Capturing Maize Stand Heterogeneity Across Yield-Stability Zones Using Unmanned Aerial Vehicles (UAV). *Sensors*, **2019**, 19,	3.8	7
140	Evapotranspiration and water use efficiency of continuous maize and maize and soybean in rotation in the upper Midwest U.S.. *Agricultural Water Management*, **2019**, 221, 92-98	5.9	14
139	Simulation of maize evapotranspiration: An inter-comparison among 29 maize models. *Agricultural and Forest Meteorology*, **2019**, 271, 264-284	5.8	33
138	Yield stability analysis reveals sources of large-scale nitrogen loss from the US Midwest. *Scientific Reports*, **2019**, 9, 5774	4.9	41
137	Estimation of spatial and temporal variability of pasture growth and digestibility in grazing rotations coupling unmanned aerial vehicle (UAV) with crop simulation models. *PLoS ONE*, **2019**, 14, e0212773	3.7	30
136	Addressing Challenges for Mapping Irrigated Fields in Subhumid Temperate Regions by Integrating Remote Sensing and Hydroclimatic Data. *Remote Sensing*, **2019**, 11, 370	5	11

135	Assessing and Modeling Pasture Growth under Different Nitrogen Fertilizer and Defoliation Rates in Argentina and the United States. *Agronomy Journal*, **2019**, 111, 702-713	2.2	5
134	Modeling the Nutritive Value of Defoliated Tall Fescue Pastures Based on Leaf Morphogenesis. *Agronomy Journal*, **2019**, 111, 714-724	2.2	5
133	Mid-20th century warming hole boosts US maize yields. *Environmental Research Letters*, **2019**, 14, 114008	6.2	12
132	Integrating geospatial tools and a crop simulation model to understand spatial and temporal variability of cereals in Scotland **2019**,		1
131	Nitrate Leaching from Continuous Corn, Perennial Grasses, and Poplar in the US Midwest. *Journal of Environmental Quality*, **2019**, 48, 1849-1855	3.4	19
130	Can multi-strategy management stabilize nitrate leaching under increasing rainfall?. *Environmental Research Letters*, **2019**, 14, 124079	6.2	9
129	Seasonal crop yield forecast: Methods, applications, and accuracies. *Advances in Agronomy*, **2019**, 201-255	7.7	49
128	Climate change impact and adaptation for wheat protein. *Global Change Biology*, **2019**, 25, 155-173	11.4	177
127	Multi-temporal RADARSAT-2 polarimetric SAR for maize mapping supported by segmentations from high-resolution optical image. *International Journal of Applied Earth Observation and Geoinformation*, **2019**, 74, 1-15	7.3	21
126	Predicting spatial patterns of within-field crop yield variability. *Field Crops Research*, **2018**, 219, 106-112	5.5	54
125	Evapotranspiration is resilient in the face of land cover and climate change in a humid temperate catchment. *Hydrological Processes*, **2018**, 32, 655-663	3.3	15
124	Groundwater depletion and climate change: future prospects of crop production in the Central High Plains Aquifer. *Climatic Change*, **2018**, 146, 187-200	4.5	44
123	How accurately do maize crop models simulate the interactions of atmospheric CO2 concentration levels with limited water supply on water use and yield?. *European Journal of Agronomy*, **2018**, 100, 67-75	5	48
122	Assessing uncertainties in crop and pasture ensemble model simulations of productivity and N O emissions. *Global Change Biology*, **2018**, 24, e603-e616	11.4	74
121	Classifying multi-model wheat yield impact response surfaces showing sensitivity to temperature and precipitation change. *Agricultural Systems*, **2018**, 159, 209-224	6.1	32
120	Multimodel ensembles improve predictions of crop-environment-management interactions. *Global Change Biology*, **2018**, 24, 5072-5083	11.4	68
119	Estimating plant distance in maize using Unmanned Aerial Vehicle (UAV). *PLoS ONE*, **2018**, 13, e0195223	3.7	11
118	Global wheat production with 1.5 and 2.0°C above pre-industrial warming. *Global Change Biology*, **2018**, 25, 1428	11.4	69

117	Drivers of within-field spatial and temporal variability of crop yield across the US Midwest. *Scientific Reports*, **2018**, 8, 14833	4.9	38
116	Improving the estimation and partitioning of plant nitrogen in the RiceGrow model. *Journal of Agricultural Science*, **2018**, 156, 959-970	1	4
115	Soil Organic Carbon and Nitrogen Feedbacks on Crop Yields under Climate Change. *Agricultural and Environmental Letters*, **2018**, 3, 180026	1.5	20
114	Evapotranspiration in High-Yielding Maize and under Increased Vapor Pressure Deficit in the US Midwest. *Agricultural and Environmental Letters*, **2018**, 3, 170039	1.5	31
113	NO and CO emissions following repeated application of organic and mineral N fertiliser from a vegetable crop rotation. *Science of the Total Environment*, **2018**, 637-638, 813-824	10.2	23
112	Brief history of agricultural systems modeling. *Agricultural Systems*, **2017**, 155, 240-254	6.1	256
111	Crop model improvement reduces the uncertainty of the response to temperature of multi-model ensembles. *Field Crops Research*, **2017**, 202, 5-20	5.5	70
110	Evaluating the impact of soil conservation measures on soil organic carbon at the farm scale. *Computers and Electronics in Agriculture*, **2017**, 135, 175-182	6.5	29
109	Contribution of Crop Models to Adaptation in Wheat. *Trends in Plant Science*, **2017**, 22, 472-490	13.1	110
108	Moving toward sustainable farming systems: Insights from private and public sector dialogues on nitrogen management. *Journal of Soils and Water Conservation*, **2017**, 72, 5A-9A	2.2	13
107	From the Dust Bowl to Drones to Big Data: The Next Revolution in Agriculture. *Georgetown Journal of International Affairs*, **2017**, 18, 158-165	0.5	5
106	Can Organic Amendments Support Sustainable Vegetable Production?. *Agronomy Journal*, **2017**, 109, 1856-1869	2.2	12
105	Conservative Precision Agriculture: an assessment of technical feasibility and energy efficiency within the LIFE+ AGRICARE project. *Advances in Animal Biosciences*, **2017**, 8, 439-443	0.3	3
104	The uncertainty of crop yield projections is reduced by improved temperature response functions. *Nature Plants*, **2017**, 3, 17102	11.5	95
103	Science in the Supply Chain: Collaboration Opportunities for Advancing Sustainable Agriculture in the United States. *Agricultural and Environmental Letters*, **2017**, 2, 170015	1.5	19
102	Spatial evaluation of switchgrass productivity under historical and future climate scenarios in Michigan. *GCB Bioenergy*, **2017**, 9, 1320-1332	5.6	10
101	Can conservation tillage mitigate climate change impacts in Mediterranean cereal systems? A soil organic carbon assessment using long term experiments. *European Journal of Agronomy*, **2017**, 90, 96-107	5	25
100	Spatial evaluation of maize yield in Malawi. *Agricultural Systems*, **2017**, 157, 185-192	6.1	6

99	Quantifying changes in water use and groundwater availability in a megacity using novel integrated systems modeling. *Geophysical Research Letters*, **2017**, 44, 8359-8368	4.9	11
98	Toward a new generation of agricultural system data, models, and knowledge products: State of agricultural systems science. *Agricultural Systems*, **2017**, 155, 269-288	6.1	188
97	Hot spots of wheat yield decline with rising temperatures. *Global Change Biology*, **2017**, 23, 2464-2472	11.4	54
96	Towards a new generation of agricultural system data, models and knowledge products: Design and improvement. *Agricultural Systems*, **2017**, 155, 255-268	6.1	67
95	Variable rate nitrogen fertilizer response in wheat using remote sensing. *Precision Agriculture*, **2016** , 17, 168-182	5.6	53
94	Uncertainty of wheat water use: Simulated patterns and sensitivity to temperature and CO2. *Field Crops Research*, **2016**, 198, 80-92	5.5	36
93	Similar estimates of temperature impacts on global wheat yield by three independent methods. *Nature Climate Change*, **2016**, 6, 1130-1136	21.4	233
92	Spatio-Temporal Nitrogen Fertilizer Response in Maize: Field Study and Modeling Approach. *Agronomy Journal*, **2016**, 108, 2110-2122	2.2	18
91	Complex water management in modern agriculture: Trends in the water-energy-food nexus over the High Plains Aquifer. *Science of the Total Environment*, **2016**, 566-567, 988-1001	10.2	68
90	Spatial sampling of weather data for regional crop yield simulations. *Agricultural and Forest Meteorology*, **2016**, 220, 101-115	5.8	27
89	Environmental and economic benefits of variable rate nitrogen fertilization in a nitrate vulnerable zone. *Science of the Total Environment*, **2016**, 545-546, 227-35	10.2	93
88	Assessing and modeling economic and environmental impact of wheat nitrogen management in Belgium. *Environmental Modelling and Software*, **2016**, 79, 184-196	5.2	11
87	Selecting optimal hyperspectral bands to discriminate nitrogen status in durum wheat: a comparison of statistical approaches. *Environmental Monitoring and Assessment*, **2016**, 188, 199	3.1	23
86	Tradeoffs between Maize Silage Yield and Nitrate Leaching in a Mediterranean Nitrate-Vulnerable Zone under Current and Projected Climate Scenarios. *PLoS ONE*, **2016**, 11, e0146360	3.7	10
85	Urban water sustainability: framework and application. *Ecology and Society*, **2016**, 21,	4.1	34
84	Multi-wheat-model ensemble responses to interannual climate variability. *Environmental Modelling and Software*, **2016**, 81, 86-101	5.2	38
83	A Comprehensive Review of the CERES-Wheat, -Maize and -Rice Models Performances. *Advances in Agronomy*, **2016**, 27-132	7.7	51
82	Effect of organic and mineral N fertilizers on N2O emissions from an intensive vegetable rotation. *Biology and Fertility of Soils*, **2016**, 52, 895-908	6.1	27

81	Comparative water use by maize, perennial crops, restored prairie, and poplar trees in the US Midwest. *Environmental Research Letters*, **2015**, 10, 064015	6.2	50
80	The Need for a Coupled Human and Natural Systems Understanding of Agricultural Nitrogen Loss. *BioScience*, **2015**, 65, 571-578	5.7	26
79	A statistical analysis of three ensembles of crop model responses to temperature and CO2 concentration. *Agricultural and Forest Meteorology*, **2015**, 214-215, 483-493	5.8	25
78	Uncertainties in Scaling-Up Crop Models for Large-Area Climate Change Impact Assessments. *ICP Series on Climate Change Impacts, Adaptation, and Mitigation*, **2015**, 261-277		8
77	Rising temperatures reduce global wheat production. *Nature Climate Change*, **2015**, 5, 143-147	21.4	1048
76	Multimodel ensembles of wheat growth: many models are better than one. *Global Change Biology*, **2015**, 21, 911-25	11.4	292
75	Systematic analysis of site-specific yield distributions resulting from nitrogen management and climatic variability interactions. *Precision Agriculture*, **2015**, 16, 361-384	5.6	11
74	Response of wheat growth, grain yield and water use to elevated CO under a Free-Air CO Enrichment (FACE) experiment and modelling in a semi-arid environment. *Global Change Biology*, **2015**, 21, 2670-2686	11.4	135
73	Climatic risk assessment to improve nitrogen fertilisation recommendations: A strategic crop model-based approach. *European Journal of Agronomy*, **2015**, 65, 10-17	5	12
72	A comparison of within-season yield prediction algorithms based on crop model behaviour analysis. *Agricultural and Forest Meteorology*, **2015**, 204, 10-21	5.8	16
71	Parameter and uncertainty estimation for maize, peanut and cotton using the SALUS crop model. *Agricultural Systems*, **2015**, 135, 31-47	6.1	21
70	Can Impacts of Climate Change and Agricultural Adaptation Strategies Be Accurately Quantified if Crop Models Are Annually Re-Initialized?. *PLoS ONE*, **2015**, 10, e0127333	3.7	39
69	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	1.6	91
68	Capsaicin modulates proliferation, migration, and activation of hepatic stellate cells. *Cell Biochemistry and Biophysics*, **2014**, 68, 387-96	3.2	12
67	How do various maize crop models vary in their responses to climate change factors?. *Global Change Biology*, **2014**, 20, 2301-20	11.4	407
66	Temperature and drought effects on maize yield. *Nature Climate Change*, **2014**, 4, 233-233	21.4	19
65	Standardized research protocols enable transdisciplinary research of climate variation impacts in corn production systems. *Journal of Soils and Water Conservation*, **2014**, 69, 532-542	2.2	25
64	Use of soil and vegetation spectroradiometry to investigate crop water use efficiency of a drip irrigated tomato. *European Journal of Agronomy*, **2014**, 59, 67-77	5	18

63	Assessing the Robustness of Vegetation Indices to Estimate Wheat N in Mediterranean Environments. *Remote Sensing*, **2014**, 6, 2827-2844	5	55
62	Development of a new long-term drought resilient soil water retention technology. *Journal of Soils and Water Conservation*, **2014**, 69, 154A-160A	2.2	5
61	Using SALUS model for medium and long term simulations of energy efficiency in different tillage systems. *Applied Mathematical Sciences*, **2014**, 8, 6433-6445	0.6	13
60	Wheat yield response to spatially variable nitrogen fertilizer in Mediterranean environment. *European Journal of Agronomy*, **2013**, 51, 65-70	5	37
59	Uncertainty in simulating wheat yields under climate change. *Nature Climate Change*, **2013**, 3, 827-832	21.4	827
58	The Agricultural Model Intercomparison and Improvement Project (AgMIP): Protocols and pilot studies. *Agricultural and Forest Meteorology*, **2013**, 170, 166-182	5.8	573
57	Olive Agroecosystems in the Mediterranean Basin: Multitrophic Analysis of Climate Effects with Process-based Representation of Soil Water Balance. *Procedia Environmental Sciences*, **2013**, 19, 122-131		8
56	Development, uncertainty and sensitivity analysis of the simple SALUS crop model in DSSAT. *Ecological Modelling*, **2013**, 260, 62-76	3	56
55	Agronomic traits and vegetation indices of two onion hybrids. *Scientia Horticulturae*, **2013**, 155, 56-64	4.1	13
54	Evaluating the fidelity of downscaled climate data on simulated wheat and maize production in the southeastern US. *Regional Environmental Change*, **2013**, 13, 101-110	4.3	13
53	On the relationship between N management and grain protein content in six durum wheat cultivars in Mediterranean environment. *Journal of Plant Interactions*, **2013**, 8, 271-279	3.8	8
52	Geophysical and Hyperspectral Data Fusion Techniques for In-Field Estimation of Soil Properties. *Vadose Zone Journal*, **2013**, 12, vzj2012.0201	2.7	33
51	The future of agriculture over the Ogallala Aquifer: Solutions to grow crops more efficiently with limited water. *Earth's Future*, **2013**, 1, 39-41	7.9	25
50	Soil and Water Quality Rapidly Responds to the Perennial Grain Kernza Wheatgrass. *Agronomy Journal*, **2013**, 105, 735-744	2.2	118
49	On modeling approaches for effective assessment of hydrology of bioenergy crops: Comments on Le et al. (2011) Proc Natl Acad Sci USA 108:15085–15090. *European Journal of Agronomy*, **2012**, 38, 64-65	5	5
48	Impact of manure and slurry applications on soil nitrate in a maize–triticale rotation: Field study and long term simulation analysis. *European Journal of Agronomy*, **2012**, 38, 43-53	5	49
47	Analysis of rainfall distribution on spatial and temporal patterns of wheat yield in Mediterranean environment. *European Journal of Agronomy*, **2012**, 41, 52-65	5	53
46	Steaming effects on selected wood properties of Turkey oak by spectral analysis. *Wood Science and Technology*, **2012**, 46, 89-100	2.5	14

45	Offsetting greenhouse gas emissions through biological carbon sequestration in North Eastern Australia. *Agricultural Systems*, **2012**, 105, 1-6	6.1	5
44	Optimizing Parameters of CSM-CERES-Maize Model to Improve Simulation Performance of Maize Growth and Nitrogen Uptake in Northeast China. *Journal of Integrative Agriculture*, **2012**, 11, 1898-1913	3.2	34
43	Environmental and economic evaluation of N fertilizer rates in a maize crop in Italy: A spatial and temporal analysis using crop models. *Biosystems Engineering*, **2012**, 113, 103-111	4.8	30
42	Assessing the Impact of Management Strategies on Water Use Efficiency Using Soil–Plant–Atmosphere Models. *Vadose Zone Journal*, **2012**, 11, vzj2011.0173	2.7	21
41	Soil carbon sequestration and associated economic costs for farming systems of the Indo-Gangetic Plain: A meta-analysis. *Agriculture, Ecosystems and Environment*, **2012**, 146, 137-146	5.7	43
40	Long-term nitrate loss along an agricultural intensity gradient in the Upper Midwest USA. *Agriculture, Ecosystems and Environment*, **2012**, 149, 10-19	5.7	110
39	Spatial and temporal variability of wheat grain yield and quality in a Mediterranean environment: A multivariate geostatistical approach. *Field Crops Research*, **2012**, 131, 49-62	5.5	54
38	Agronomic and economic evaluation of irrigation strategies on cotton lint yield in Australia. *Crop and Pasture Science*, **2012**, 63, 647	2.2	19
37	Adapting wheat sowing dates to projected climate change in the Australian subtropics: analysis of crop water use and yield. *Crop and Pasture Science*, **2012**, 63, 974	2.2	16
36	The contribution of maize cropping in the Midwest USA to global warming: A regional estimate. *Agricultural Systems*, **2011**, 104, 292-296	6.1	40
35	Cultivar discrimination at different site elevations with remotely sensed vegetation indices. *Italian Journal of Agronomy*, **2011**, 6, 1	1.4	10
34	Procedures for Initializing Soil Organic Carbon Pools in the DSSAT-CENTURY Model for Agricultural Systems. *Soil Science Society of America Journal*, **2011**, 75, 69-78	2.5	48
33	Use of the Canopy Chlorophyll Content Index (CCCI) for Remote Estimation of Wheat Nitrogen Content in Rainfed Environments. *Agronomy Journal*, **2011**, 103, 1597-1603	2.2	39
32	Economic and environmental evaluation of site-specific tillage in a maize crop in NE Italy. *European Journal of Agronomy*, **2011**, 35, 83-92	5	32
31	A strategic and tactical management approach to select optimal N fertilizer rates for wheat in a spatially variable field. *European Journal of Agronomy*, **2011**, 35, 215-222	5	106
30	Improving Crop Model Inference Through Bayesian Melding With Spatially Varying Parameters. *Journal of Agricultural, Biological, and Environmental Statistics*, **2011**, 16, 453-474	1.9	5
29	Remote estimation of chlorophyll on two wheat cultivars in two rainfed environments. *Crop and Pasture Science*, **2011**, 62, 269	2.2	10
28	Improved method for discriminating agricultural crops using geostatistics and remote sensing. *Journal of Applied Remote Sensing*, **2011**, 5, 053536	1.4	2

27	Analysis of Contributing Factors to Desertification and Mitigation Measures in Basilicata Region. *Italian Journal of Agronomy*, **2010**, 5, 33	1.4	28
26	Two-Dimensional Spatial and Temporal Variation of Soil Physical Properties in Tillage Systems Using Electrical Resistivity Tomography. *Agronomy Journal*, **2010**, 102, 440-449	2.2	33
25	Soil carbon sequestration rates and associated economic costs for farming systems of south-eastern Australia. *Soil Research*, **2010**, 48, 720	1.8	25
24	Long-term wheat response to nitrogen in a rainfed Mediterranean environment: Field data and simulation analysis. *European Journal of Agronomy*, **2010**, 33, 132-138	5	82
23	Conceptual model of a future farm management information system. *Computers and Electronics in Agriculture*, **2010**, 72, 37-47	6.5	188
22	Landscape Position and Precipitation Effects on Spatial Variability of Wheat Yield and Grain Protein in Southern Italy. *Journal of Agronomy and Crop Science*, **2009**, 195, 301-312	3.9	38
21	Contemporary Evidence of Soil Carbon Loss in the U.S. Corn Belt. *Soil Science Society of America Journal*, **2009**, 73, 2078-2086	2.5	77
20	Criteria for Selecting Optimal Nitrogen Fertilizer Rates for Precision Agriculture. *Italian Journal of Agronomy*, **2009**, 4, 147	1.4	13
19	Water use efficiency is not constant when crop water supply is adequate or fixed: The role of agronomic management. *European Journal of Agronomy*, **2008**, 28, 273-281	5	45
18	In situ detection of tree root distribution and biomass by multielectrode resistivity imaging. *Tree Physiology*, **2008**, 28, 1441-1448	4.2	5
17	In situ detection of tree root distribution and biomass by multi-electrode resistivity imaging. *Tree Physiology*, **2008**, 28, 1441-8	4.2	91
16	Intensive olive orchards on sloping land: good water and pest management are essential. *Journal of Environmental Management*, **2008**, 89, 120-8	7.9	41
15	Evaluating energy efficiency of site-specific tillage in maize in NE Italy. *Bioresource Technology*, **2008**, 99, 6957-65	11	42
14	Analyzing the effects of climate variability on spatial pattern of yield in a maize–wheat–soybean rotation. *European Journal of Agronomy*, **2007**, 26, 82-91	5	77
13	Effects of Fresh and Composted Dairy Manure Applications on Alfalfa Yield and the Environment in Arizona. *Agronomy Journal*, **2006**, 98, 80-84	2.2	6
12	Simulation of Tillage Systems Impact on Soil Biophysical Properties Using the SALUS Model. *Italian Journal of Agronomy*, **2006**, 1, 677	1.4	38
11	Energy Use and Economic Evaluation of a Three Year Crop Rotation for Conservation and Organic Farming in NE Italy. *Biosystems Engineering*, **2005**, 91, 245-256	4.8	80
10	Impact of compost, manure and inorganic fertilizer on nitrate leaching and yield for a 6-year maize–alfalfa rotation in Michigan. *Agriculture, Ecosystems and Environment*, **2005**, 108, 329-341	5.7	159

9	Examples of strategies to analyze spatial and temporal yield variability using crop models. *European Journal of Agronomy*, **2002**, 18, 141-158	5	180
8	Spatial validation of crop models for precision agriculture. *Agricultural Systems*, **2001**, 68, 97-112	6.1	146
7	Evaluating environmental sensitivity at the basin scale through the use of geographic information systems and remotely sensed data: an example covering the Agri basin (Southern Italy). *Catena*, **2000**, 40, 19-35	5.8	168
6	Agronomical aspects of officinal plant cultivation. *Phytotherapy Research*, **1998**, 12, S131-S134	6.7	1
5	Meeting global challenges with regenerative agriculture producing food and energy. *Nature Sustainability*,	22.1	6
4	Modeling Soil Dynamic Processes. *Agronomy*,547-577	0.8	
3	Multi-model evaluation of phenology prediction for wheat in Australia		1
2	The chaos in calibrating crop models		1
1	How well do crop modeling groups predict wheat phenology, given calibration data from the target population?		7