Edmar I Teixeira

List of Publications by Year
in descending order

50 papers	3,672 citations	236612 25 h-index	214527 47 g-index
50 all docs	50 docs citations	50 times ranked	4173 citing authors

#	Article	IF	Citations
1	APSIM â€" Evolution towards a new generation of agricultural systems simulation. Environmental Modelling and Software, 2014, 62, 327-350.	1.9	1,173
2	Global hot-spots of heat stress on agricultural crops due to climate change. Agricultural and Forest Meteorology, 2013, 170, 206-215.	1.9	588
3	How do various maize crop models vary in their responses to climate change factors?. Global Change Biology, 2014, 20, 2301-2320.	4.2	525
4	The impact of water and nitrogen limitation on maize biomass and resource-use efficiencies for radiation, water and nitrogen. Field Crops Research, 2014, 168, 109-118.	2.3	110
5	Plant Modelling Framework: Software for building and running crop models on the APSIM platform. Environmental Modelling and Software, 2014, 62, 385-398.	1.9	109
6	Impact of Spatial Soil and Climate Input Data Aggregation on Regional Yield Simulations. PLoS ONE, 2016, 11, e0151782.	1.1	78
7	Limited potential of crop management for mitigating surface ozone impacts on global food supply. Atmospheric Environment, 2011, 45, 2569-2576.	1.9	75
8	Climate adaptation pathways for agriculture: Insights from a participatory process. Environmental Science and Policy, 2020, 107, 66-79.	2.4	61
9	Seasonal patterns of root C and N reserves of lucerne crops (Medicago sativa L.) grown in a temperate climate were affected by defoliation regime. European Journal of Agronomy, 2007, 26, 10-20.	1.9	58
10	Adapting crop rotations to climate change in regional impact modelling assessments. Science of the Total Environment, 2018, 616-617, 785-795.	3.9	51
11	Sources of variability in the effectiveness of winter cover crops for mitigating N leaching. Agriculture, Ecosystems and Environment, 2016, 220, 226-235.	2.5	48
12	Radiation use efficiency and biomass partitioning of lucerne (Medicago sativa) in a temperate climate. European Journal of Agronomy, 2006, 25, 319-327.	1.9	47
13	The dynamics of lucerne (Medicago sativa L.) yield components in response to defoliation frequency. European Journal of Agronomy, 2007, 26, 394-400.	1.9	47
14	Defoliation frequency and season affected radiation use efficiency and dry matter partitioning to roots of lucerne (Medicago sativa L.) crops. European Journal of Agronomy, 2008, 28, 103-111.	1.9	46
15	Effect of weather data aggregation on regional crop simulation for different crops, production conditions, and response variables. Climate Research, 2015, 65, 141-157.	0.4	43
16	How does defoliation management impact on yield, canopy forming processes and light interception of lucerne (Medicago sativa L.) crops?. European Journal of Agronomy, 2007, 27, 154-164.	1.9	41
17	Variability of effects of spatial climate data aggregation on regional yield simulation by crop models. Climate Research, 2015, 65, 53-69.	0.4	39
18	The interactions between genotype, management and environment in regional crop modelling. European Journal of Agronomy, 2017, 88, 106-115.	1.9	38

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19	Uncertainty in future irrigation water demand and risk of crop failure for maize in Europe. Environmental Research Letters, 2016, 11, 074007.	2.2	37
20	Growth and phenological development patterns differ between seedling and regrowth lucerne crops (Medicago sativa L.). European Journal of Agronomy, 2011, 35, 47-55.	1.9	34
21	Evaluating methods to simulate crop rotations for climate impact assessments â€“ A case study on the Canterbury plains of New Zealand. Environmental Modelling and Software, 2015, 72, 304-313.	1.9	34
22	Unparalleled coupled ocean-atmosphere summer heatwaves in the New Zealand region: drivers, mechanisms and impacts. Climatic Change, 2020, 162, 485-506.	1.7	34
23	A statistical analysis of three ensembles of crop model responses to temperature and CO2 concentration. Agricultural and Forest Meteorology, 2015, 214-215, 483-493.	1.9	31
24	The components of lucerne (Medicago sativa) leaf area index respond to temperature and photoperiod in a temperate environment. European Journal of Agronomy, 2005, 23, 348-358.	1.9	29
25	The implication of input data aggregation on up-scaling soil organic carbon changes. Environmental Modelling and Software, 2017, 96, 361-377.	1.9	28
26	Impact analysis of climate data aggregation at different spatial scales on simulated net primary productivity for croplands. European Journal of Agronomy, 2017, 88, 41-52.	1.9	27
27	Allometric relationships between nitrogen uptake and transpiration to untangle interactions between nitrogen supply and drought in maize and sorghum. European Journal of Agronomy, 2020, 120, 126145.	1.9	27
28	Evaluating the precision of eight spatial sampling schemes in estimating regional means of simulated yield for two crops. Environmental Modelling and Software, 2016, 80, 100-112.	1.9	26
29	Modelling seasonality of dry matter partitioning and root maintenance respiration in lucerne (Medicago sativa L.) crops. Crop and Pasture Science, 2009, 60, 778.	0.7	24
30	Understanding spatial and temporal variability of N leaching reduction by winter cover crops under climate change. Science of the Total Environment, 2021, 771, 144770.	3.9	20
31	Calibration of the APSIM-Lucerne model for â€˜Grasslands Kaitunaâ€™ lucerne crops grown in New Zealand. New Zealand Journal of Agricultural Research, 2015, 58, 190-202.	0.9	19
32	Sowing date affected shoot and root biomass accumulation of lucerne during establishment and subsequent regrowth season. European Journal of Agronomy, 2015, 68, 69-77.	1.9	17
33	Yield and quality changes in lucerne of different fall dormancy ratings under three defoliation regimes. European Journal of Agronomy, 2020, 115, 126012.	1.9	17
34	Soil water extraction patterns of lucerne grown on stony soils. Plant and Soil, 2017, 414, 95-112.	1.8	15
35	A generic approach to modelling, allocation and redistribution of biomass to and from plant organs. In Silico Plants, 2019, 1, .	0.8	14
36	Field estimation of water extraction coefficients with APSIM-Slurp for water uptake assessments in perennial forages. Field Crops Research, 2018, 222, 26-38.	2.3	12

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37	Development of a lucerne model in APSIM next generation: 1 phenology and morphology of genotypes with different fall dormancies. European Journal of Agronomy, 2021, 130, 126372.	1.9	8
38	Quantifying canopy formation processes in fodder beet (Beta vulgaris subsp. vulgaris var. alba L.) crops. European Journal of Agronomy, 2016, 74, 144-154.	1.9	7
39	Simplified methods for on-farm prediction of yield potential of grazed lucerne crops in New Zealand. New Zealand Journal of Agricultural Research, 0, , 1-19.	0.9	7
40	Principles and process for developing participatory adaptation pathways in the primary industries. Elementa, 2021, 9, .	1.1	5
41	Performance of Winter-Sown Cereal Catch Crops after Simulated Forage Crop Grazing in Southland, New Zealand. Plants, 2021, 10, 108.	1.6	4
42	Development of a lucerne model in APSIM next generation: 2 canopy expansion and light interception of genotypes with different fall dormancy ratings. European Journal of Agronomy, 2022, 139, 126570.	1.9	4
43	Australia and New Zealand Perspectives on Climate Change and Agriculture. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2012, , 107-141.	0.4	3
44	Crop growth and development dynamics of two fodder beet (Beta vulgaris L.) cultivars sown on different dates in New Zealand. New Zealand Journal of Agricultural Research, 2020, 63, 449-466.	0.9	3
45	A Spatial Analysis Framework to Assess Responses of Agricultural Landscapes to Climates and Soils at Regional Scale. Innovations in Landscape Research, 2020, , 495-508.	0.2	3
46	Quantifying morpho-physiological traits that describe canopy and biomass formation and partitioning processes for spring wheat genotypes grown under contrasting nitrogen supply. New Zealand Journal of Crop and Horticultural Science, 2023, 51, 231-254.	0.7	3
47	Statistical Analysis of Large Simulated Yield Datasets for Studying Climate Effects. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2015, , 279-295.	0.4	2
48	Water and nitrogen stress effects on canopy development and biomass allocation in fodder beet (<i>Beta vulgaris</i> L.). New Zealand Journal of Agricultural Research, 2022, 65, 63-81.	0.9	1
49	Modeling Shoot and Root Biomass of Lucerne Cropsâ€"New Insights on the Seasonality of Dry Matter Partitioning and Root Maintenance Respiration. , 2009, , 109-115.		0
50	Surface ozone impact on global food supply: Potential damage and adaptation for soybean crops. IOP Conference Series: Earth and Environmental Science, 2009, 6, 372043.	0.2	0