Abraham Singels

List of Publications by Year
in descending order

41 papers	1,157 citations	471371 17 h-index	395590 33 g-index
42 all docs	42 docs citations	42 times ranked	903 citing authors

#	Article	IF	Citations
1	Evaluating process-based sugarcane models for simulating genotypic and environmental effects observed in an international dataset. Field Crops Research, 2021, 260, 107983.	2.3	3
2	Sugarcane. , 2021, , 674-713.		5
3	Assessing the fidelity of Landsat-based fAPAR models in two diverse sugarcane growing regions. Computers and Electronics in Agriculture, 2020, 170, 105248.	3.7	14
4	Exploring process-level genotypic and environmental effects on sugarcane yield using an international experimental dataset. Field Crops Research, 2019, 244, 107622.	2.3	12
5	Farm level decision support for sugarcane irrigation management during drought. Agricultural Water Management, 2019, 222, 274-285.	2.4	8
6	Refining the Canegro model for improved simulation of climate change impacts on sugarcane. European Journal of Agronomy, 2018, 100, 76-86.	1.9	34
7	Predicting genotypic differences in irrigated sugarcane yield using the Canegro model and independent trait parameter estimates. European Journal of Agronomy, 2018, 96, 13-21.	1.9	18
8	Crop modelling to support sustainable sugarcane cultivation. Burleigh Dodds Series in Agricultural Science, 2017, , 21-44.	0.1	1
9	Water and radiation use efficiency of sugarcane for bioethanol production in South Africa, benchmarked against other selected crops. South African Journal of Plant and Soil, 2016, 33, 1-11.	0.4	13
10	Analysing yield trends in the South African sugar industry. Agricultural Systems, 2015, 141, 24-35.	3.2	9
11	Negative effects of lodging on irrigated sugarcane productivityâ€"An experimental and crop modelling assessment. Field Crops Research, 2015, 180, 135-142.	2.3	17
12	Increasing water use efficiency of irrigated sugarcane production in South Africa through better agronomic practices. Field Crops Research, 2015, 176, 87-98.	2.3	39
13	Simulated impacts of climate change on water use and yield of irrigated sugarcane in South Africa. Agricultural Systems, 2015, 139, 260-270.	3.2	49
14	Predicting Climate Change Impacts on Sugarcane Production at Sites in Australia, Brazil and South Africa Using the Canegro Model. Sugar Tech, 2014, 16, 347-355.	0.9	57
15	Water relations of two contrasting sugarcane genotypes. Field Crops Research, 2014, 168, 86-100.	2.3	16
16	Integrating soil water monitoring technology and weather based crop modelling to provide improved decision support for sugarcane irrigation management. Computers and Electronics in Agriculture, 2014, 105, 44-53.	3.7	13
17	Modelling and monitoring for strategic yield gap diagnosis in the South African sugar belt. Field Crops Research, 2013, 143, 143-150.	2.3	16
18	Climate change impacts on sugarcane attainable yield in southern Brazil. Climatic Change, 2013, 117, 227-239.	1.7	95

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19	Modelling genetic and environmental control of biomass partitioning at plant and phytomer level of sugarcane grown in controlled environments. Crop and Pasture Science, 2011, 62, 66.	0.7	11
20	Biomass accumulation in sugarcane: unravelling the factors underpinning reduced growth phenomena. Journal of Experimental Botany, 2010, 61, 2877-2887.	2.4	78
21	Modelling water uptake, growth and sucrose accumulation of sugarcane subjected to water stress. Field Crops Research, 2010, 117, 59-69.	2.3	25
22	Modelling crop growth and crop water relations in South Africa: Past achievements and lessons for the future. South African Journal of Plant and Soil, 2010, 27, 49-65.	0.4	23
23	Sugarcane response to row spacing-induced competition for light. Field Crops Research, 2009, 113, 149-155.	2.3	33
24	Operational forecasting of South African sugarcane production: Part 1 â€“ System description. Agricultural Systems, 2007, 92, 23-38.	3.2	33
25	Operational forecasting of South African sugarcane production: Part 2 â€“ System evaluation. Agricultural Systems, 2007, 92, 39-51.	3.2	20
26	The response of sugarcane canopy development to water stress. Field Crops Research, 2006, 98, 91-97.	2.3	120
27	Improving biomass production and partitioning in sugarcane: theory and practice. Field Crops Research, 2005, 92, 291-303.	2.3	61
28	The effect of crop start date, crop class and cultivar on sugarcane canopy development and radiation interception. Field Crops Research, 2005, 92, 249-260.	2.3	58
29	A process-based model to simulate changes in tiller density and light interception of sugarcane crops. Agricultural Systems, 2003, 76, 589-599.	3.2	25
30	Enhanced risk management and decision-making capability across the sugarcane industry value chain based on seasonal climate forecasts. Agricultural Systems, 2002, 74, 459-477.	3.2	90
31	A new method of simulating dry matter partitioning in the Canegro sugarcane model. Field Crops Research, 2002, 78, 151-164.	2.3	98
32	The relationship between ENSO and rainfall and yield in the South African sugar industry. South African Journal of Plant and Soil, 1999, 16, 96-101.	0.4	14
33	Simulation of main stem mature leaf area of maize. South African Journal of Plant and Soil, 1995, 12, 50-54.	0.4	1
34	Bepaling van optimale blom en plantdatums vir koring in die sentrale besproeiingsgebiede van die RSA met behulp van 'n groeimodel. South African Journal of Plant and Soil, 1993, 10, 77-84.	0.4	1
35	Evaluating wheat planting strategies using a growth model. Agricultural Systems, 1992, 38, 175-184.	3.2	8
36	Determination of optimum wheat cultivar characteristics using a growth model. Agricultural Systems, 1991, 37, 25-38.	3.2	5

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37	Refinement and validation of the PUTU wheat crop growth model 3. Grain growth. South African Journal of Plant and Soil, 1991, 8, 73-77.	0.4	7
38	Refinement and validation of the PUTU wheat crop growth model 1. Phenology. South African Journal of Plant and Soil, 1991, 8, 59-66.	0.4	8
39	Evaluating different wheat production strategies for the Orange Free State using stochastic dominance techniques and a crop growth model. South African Journal of Plant and Soil, 1991, 8, 113-118.	0.4	6
40	Refinement and validation of the PUTU wheat crop growth model 2. Leaf area expansion. South African Journal of Plant and Soil, 1991, 8, 67-72.	0.4	11
41	Risk analysis of wheat production in the central Orange Free State using a growth model. South African Journal of Plant and Soil, 1988, 5, 37-39.	0.4	0