RESEARCH & PUBLICATIONS

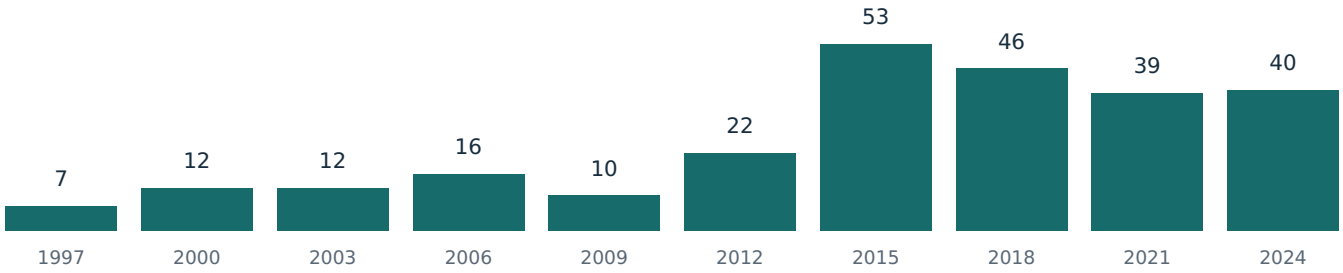
Senthold Asseng

A publication record at a glance

257	26,610	76
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



MOST CITED IN THIS LIST

Temperature Increase Reduces Global Yields of Major Crops in Four Independent Estimates — 2,862
2017 Proceedings of the National Academy of Sciences of the United States of America

An Overview of APSIM, a Model Designed for Farming Systems Simulation — 2,281
2003 European Journal of Agronomy

Rising Temperatures Reduce Global Wheat Production — 2,112
2015 Nature Climate Change

This publication list was generated automatically from the exaly database without manual editing. It reflects the database records available when the document was created.

For the latest record and an updated publication list, visit the author profile:

https://exaly.com/author/6024397

Document version: 2026-11-05 (UTC) | Database snapshot: 2026-10-31

Ordered by publication year, newest first

2026

01 No-Tillage Practices Mitigate Warming-Induced Yield Losses in Wheat by Enhancing Source-Sink Coordination

1 citations

Field Crops Research · 336, 110226

https://exaly.com/article/206752217

02 Evaluating the Added Value of Subseasonal Weather Forecasts for EU National Wheat Yield Forecasts

0 citations

Agricultural and Forest Meteorology · 383, 111139

https://exaly.com/article/211772474

03 Observation-Constrained Agroecosystem Model Inversion Reveals Continental-Scale Variation of Winter Wheat Traits

1 citations

Global Change Biology · 32, e70936

https://exaly.com/article/214545580

04 TMF: Temporal Multi-Modal Fusion Framework for Estimating Wheat Yield From Multi-Source Satellite and Environmental Data Across the European Union

1 citations

ISPRS Journal of Photogrammetry and Remote Sensing · 239, 147-163

https://exaly.com/article/214732938

05 Targeted Adaptation Options Can Effectively Reduce Amplified Compound Water-Heat Stress Around Maize Flowering in China

0 citations

Communications Earth & Environment

https://exaly.com/article/215715059

06 GreenHub: Toward an Open Platform for Machine Learning-Based Crop Yield Modeling and Deployment

0 citations

Environmental Modelling and Software · 205, 107100

https://exaly.com/article/216062490

07 Multi-Model Ensembles in Ecosystem Modeling: Challenges and Best Practices for Decision-Making

1 citations

Global Change Biology · 32, e70987

https://exaly.com/article/217164525

08 Rising Indoor Wheat Yields in Vertical Farming

0 citations

Food and Energy Security

https://exaly.com/article/218266630

2025

09 Bird’s-Eye View: Remote Sensing Insights Into the Impact of Mowing Events on Eurasian Curlew Habitat Selection

3 citations

Agriculture, Ecosystems and Environment · 378, 109299

https://exaly.com/article/193083091

Ordered by publication year, newest first

2025 / continued

10 **Past and Future Wheat Yield Losses in France's Breadbasket**
Field Crops Research · 322, 109703
https://exaly.com/article/195649744
9 citations

11 **Rice Yield Stability and Its Determinants Across Different Rice-Cropping Systems in China**
Agricultural and Forest Meteorology · 364, 110452
https://exaly.com/article/197800816
22 citations

12 **Spring Frost Risk Assessment on Winter Wheat in South Korea**
Agricultural and Forest Meteorology · 366, 110484
https://exaly.com/article/198385764
11 citations

13 **The Future Potential of Controlled Environment Agriculture**
PNAS Nexus · 4, pgaf078
https://exaly.com/article/198548817
16 citations

14 **Modelling Nitrogen Translocation to Grain Under Elevated Carbon Dioxide in Wheat**
Next Research · 2, 100307
https://exaly.com/article/199466433
0 citations

15 **Quantification and Comparison of Prediction Uncertainty Associated With Different Practices of Crop Modeling**
Agricultural and Forest Meteorology · 371, 110633
https://exaly.com/article/201114228
10 citations

16 **Negative Impacts of Climate Change on Crop Yields Are Underestimated**
Trends in Plant Science · 30, 1262-1273
https://exaly.com/article/201523341
25 citations

17 **Gaps and Strategies for Accurate Simulation of Waterlogging Impacts on Crop Productivity**
Nature Food · 6, 553-562
https://exaly.com/article/201687929
28 citations

18 **Nitrogen Fertilization Strategy for Swiss Winter Wheat Under Climate-Induced Rainfall Reduction: A Model-Based Assessment**
European Journal of Agronomy · 170, 127728
https://exaly.com/article/201884802
1 citations

19 **Winter Dormant Wheat Will Benefit From Mean Temperature Increase of 2°C When Well-Watered and Fertilized in the Main Producing Regions of China**
Global Change Biology · 31, e70324
https://exaly.com/article/202648223
9 citations

Ordered by publication year, newest first

2025 / continued

20 **Why Is There so Much Variability in Crop Multi-Model Studies?** 11 citations
Agricultural and Forest Meteorology · 372, 110697
https://exaly.com/article/202711636

21 **Uncertainty of Climate Change Impacts on Crop Production** 5 citations
Journal unavailable
https://exaly.com/article/202927182

22 **Wheat Yield Forecasts With Seasonal Climate Models and Long Short-Term Memory Networks** 6 citations
Computers and Electronics in Agriculture · 239, 110965
https://exaly.com/article/204874326

23 **Promoting Potato as a Substitute in Low-Yield Regions for Grain Crops Can Achieve Multiple Benefits in China** 3 citations
Communications Earth & Environment
https://exaly.com/article/207306029

24 **Climate-Crop Models to Support Opportunity Crop Adaptation in Africa** 9 citations
Nature Communications · 16, 11186
https://exaly.com/article/208294637

2024

25 **Mechanisms and Modelling Approaches for Excessive Rainfall Stress on Cereals: Waterlogging, Submergence, Lodging, Pests and Diseases** 68 citations
Agricultural and Forest Meteorology · 344, 109819
https://exaly.com/article/172774795

26 **Production Vulnerability to Wheat Blast Disease Under Climate Change** 89 citations
Nature Climate Change · 14, 178-183
https://exaly.com/article/175838781

27 **Responses of Winter Wheat Genotypes to Reduced Rainfall, Nitrogen Fertilization and Pre-Crops in Switzerland** 6 citations
Field Crops Research · 308, 109272
https://exaly.com/article/175849341

28 **Achieving Wheat Self-Sufficiency in Brazil** 11 citations
Environmental Research Letters · 19, 031003
https://exaly.com/article/176090633

Ordered by publication year, newest first

2024 / continued

29 **Assessing the Impact of Irrigation and Nitrogen Management on Potato Performance Under Varying Climate in the State of Florida, USA**
18 citations
Agricultural Water Management · 295, 108769
https://exaly.com/article/177377178

30 **Hybrid Intelligence for Reconciling Biodiversity and Productivity in Agriculture**
9 citations
Nature Food · 5, 270-272
https://exaly.com/article/178122576

31 **Human-Centered AI in Smart Farming: Toward Agriculture 5.0**
185 citations
IEEE Access · 12, 62199-62214
https://exaly.com/article/185035451

32 **Advancing Vertical Farming With Automation for Sustainable Food Production**
4 citations
Automatisierungstechnik · 72, 599-605
https://exaly.com/article/186668680

33 **Global Needs for Nitrogen Fertilizer to Improve Wheat Yield Under Climate Change**
101 citations
Nature Plants · 10, 1081-1090
https://exaly.com/article/186812323

34 **Multi-Model Ensembles for Regional and National Wheat Yield Forecasts in Argentina**
5 citations
Environmental Research Letters · 19, 084037
https://exaly.com/article/187307656

35 **Pathways to Identify and Reduce Uncertainties in Agricultural Climate Impact Assessments**
46 citations
Nature Food · 5, 550-556
https://exaly.com/article/187370764

36 **Uncertainty in Greenhouse Tomato Growth Models**
8 citations
Computers and Electronics in Agriculture · 225, 109324
https://exaly.com/article/188118758

37 **Impact of Coupled Input Data Source-Resolution and Aggregation on Contributions of High-Yielding Traits to Simulated Wheat Yield**
2 citations
Scientific Reports · 14, 1-11
https://exaly.com/article/193473426

38 **sensorHUB – A Novel, Open-Source Software Stack for Enhanced Accessibility and Secure Interoperability in IoT Project Management**
0 citations
International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives · XLVIII-4-2024, 197-204
https://exaly.com/article/193904864

Ordered by publication year, newest first

2024 / continued

39 **Knowledge Informed Hybrid Machine Learning in Agricultural Yield Prediction**
Computers and Electronics in Agriculture · 227, 109606
https://exaly.com/article/194469192
37 citations

40 **Explaining Decision Structures and Data Value for Neural Networks in Crop Yield Prediction**
Environmental Research Letters · 19, 124087
https://exaly.com/article/194853197
2 citations

2023

41 **Autonomous Field Management – An Enabler of Sustainable Future in Agriculture**
Agricultural Systems · 206, 103607
https://exaly.com/article/159259658
38 citations

42 **The Extreme 2016 Wheat Yield Failure in France**
Global Change Biology · 29, 3130-3146
https://exaly.com/article/159513419
51 citations

43 **Nitrogen Fertilizer Rate and Timing of Application for Potato Under Different Irrigation Methods**
Agricultural Water Management · 283, 108312
https://exaly.com/article/159607417
28 citations

44 **A Call to Action for Global Research on the Implications of Waterlogging for Wheat Growth and Yield**
Agricultural Water Management · 284, 108334
https://exaly.com/article/163119789
31 citations

45 **A Simple Procedure for a National Wheat Yield Forecast**
European Journal of Agronomy · 148, 126868
https://exaly.com/article/163288655
4 citations

46 **A High-Yielding Traits Experiment for Modeling Potential Production of Wheat: Field Experiments and AgMIP-Wheat Multi-Model Simulations**
Open Data Journal for Agricultural Research · 9, 26-33
https://exaly.com/article/166438192
0 citations

47 **The Optimization of Model Ensemble Composition and Size Can Enhance the Robustness of Crop Yield Projections**
Communications Earth & Environment · 4, 1-11
https://exaly.com/article/168603595
27 citations

Ordered by publication year, newest first

2023 / continued

48 **Machine Learning for Soybean Yield Forecasting in Brazil** — 32 citations
Agricultural and Forest Meteorology · 341, 109670
https://exaly.com/article/169529213

49 **Seasonal Climate Models for National Wheat Yield Forecasts in Brazil** — 8 citations
Agricultural and Forest Meteorology · 342, 109753
https://exaly.com/article/170463863

50 **Climate Change Impacts on Crop Yields** — 788 citations
Nature Reviews Earth & Environment · 4, 831-846
https://exaly.com/article/171497316

51 **Optimal Control for Indoor Vertical Farms Based on Crop Growth** — 16 citations
IFAC-PapersOnLine · 56, 9887-9893
https://exaly.com/article/172855687

2022

52 **Development and Improvement of the CROPGRO-Strawberry Model** — 28 citations
Scientia Horticulturae · 291, 110538
https://exaly.com/article/82617926

53 **Adaptation of the SIMPLE Model to Oilseed Flax (Linum usitatissimum L.) for Arid and Semi-Arid Environments** — 8 citations
Agronomy · 12, 1267
https://exaly.com/article/146021845

54 **A Wiring Diagram to Integrate Physiological Traits of Wheat Yield Potential** — 99 citations
Nature Food · 3, 318-324
https://exaly.com/article/146024185

55 **Improving Wheat Production and Breeding Strategies Using Crop Models** — 3 citations
Journal unavailable
https://exaly.com/article/146135227

56 **Simulation of Winter Wheat Response to Variable Sowing Dates and Densities in a High-Yielding Environment.** — 39 citations
Journal of Experimental Botany · 73, 5715-5729
https://exaly.com/article/148524269

57 **Global Wheat Production Could Benefit From Closing the Genetic Yield Gap** — 80 citations
Nature Food · 3, 532-541
https://exaly.com/article/149007211

Ordered by publication year, newest first

2022 / continued

58 Minimizing Trade-Offs Between Wheat Yield and Resource-Use Efficiency in the Nile Delta – A Multi-Model Analysis
28 citations
Field Crops Research · 287, 108638
https://exaly.com/article/150352842

59 Dynamic Prediction of Preharvest Strawberry Quality Traits as a Function of Environmental Factors
0 citations
Hortscience: A Publication of the American Society for Hortcultural Science · 57, 1336-1355
https://exaly.com/article/154090152

60 Simulating the Effects of Low-Temperature Stress on Wheat Biomass Growth and Yield
59 citations
Agricultural and Forest Meteorology · 326, 109191
https://exaly.com/article/155207626

61 Climate Service Driven Adaptation May Alleviate the Impacts of Climate Change in Agriculture
17 citations
Communications Biology · 5, 1-6
https://exaly.com/article/156557724

62 Global Crop Yields Can Be Lifted by Timely Adaptation of Growing Periods to Climate Change
270 citations
Nature Communications · 13, 1-10
https://exaly.com/article/156661646

63 Needed Global Wheat Stock and Crop Management in Response to the War in Ukraine
25 citations
Global Food Security · 35, 100662
https://exaly.com/article/158061083

2021

64 Protocol for Life Cycle Assessment Modeling of US Fruit and Vegetable Supply Chains- Cases of Processed Potato and Tomato Products
10 citations
Data in Brief · 34, 106639
https://exaly.com/article/77911682

65 Multi-Model Evaluation of Phenology Prediction for Wheat in Australia
21 citations
Agricultural and Forest Meteorology · 298, 108289
https://exaly.com/article/79472576

66 How Well Do Crop Modeling Groups Predict Wheat Phenology, Given Calibration Data From the Target Population?
51 citations
European Journal of Agronomy · 124, 126195
https://exaly.com/article/79707047

Ordered by publication year, newest first

2021 / continued

67 **Comparing Process-Based Wheat Growth Models in Their Simulation of Yield Losses Caused by Plant Diseases**
27 citations
Field Crops Research · 265, 108108
https://exaly.com/article/80237645

68 **Climate Impact and Adaptation to Heat and Drought Stress of Regional and Global Wheat Production**
159 citations
Environmental Research Letters · 16, 054070
https://exaly.com/article/80304818

69 **Large Potential for Crop Production Adaptation Depends on Available Future Varieties**
147 citations
Global Change Biology · 27, 3870-3882
https://exaly.com/article/80669630

70 **Modeling the Response of Winter Wheat Phenology to Low Temperature Stress at Elongation and Booting Stages**
50 citations
Agricultural and Forest Meteorology · 303, 108376
https://exaly.com/article/80715368

71 **The Upper Temperature Thresholds of Life**
111 citations
Lancet Planetary Health, The · 5, e378-e385
https://exaly.com/article/80788367

72 **Modeling Growth, Development and Yield of Cassava: A Review**
32 citations
Field Crops Research · 267, 108140
https://exaly.com/article/80994901

73 **Extreme Lows of Wheat Production in Brazil**
16 citations
Environmental Research Letters · 16, 104025
https://exaly.com/article/82265599

74 **The Chaos in Calibrating Crop Models: Lessons Learned From a Multi-Model Calibration Exercise**
100 citations
Environmental Modelling and Software · 145, 105206
https://exaly.com/article/82516667

75 **Supply Chains for Processed Potato and Tomato Products in the United States Will Have Enhanced Resilience With Planting Adaptation Strategies**
29 citations
Nature Food · 2, 862-872
https://exaly.com/article/91164434

Ordered by publication year, newest first

2021 / continued

76 **Evaluation of Crop Model Prediction and Uncertainty Using Bayesian Parameter Estimation and Bayesian Model Averaging**
Agricultural and Forest Meteorology · 311, 108686
https://exaly.com/article/91271572
42 citations

77 **Irrigation Methods and Nitrogen Fertilizer Application Strategies for Potato**
Journal unavailable
https://exaly.com/article/122934919
0 citations

78 **Separating the Impacts of Heat Stress Events From Rising Mean Temperatures on Winter Wheat Yield of China**
Environmental Research Letters · 16, 124035
https://exaly.com/article/123317301
24 citations

79 **Implications of New Technologies for Future Food Supply Systems**
Journal of Agricultural Science · 159, 315-319
https://exaly.com/article/124848034
0 citations

2020

80 **Testing a Crop Model With Extreme Low Yields From Historical District Records**
Field Crops Research · 249, 107269
https://exaly.com/article/74894084
13 citations

81 **Different Uncertainty Distribution Between High and Low Latitudes in Modelling Warming Impacts on Wheat**
Nature Food · 1, 63-69
https://exaly.com/article/75282919
74 citations

82 **Climate Change Impacts and Adaptations for Wheat Employing Multiple Climate and Crop Modelsin Pakistan**
Climatic Change · 163, 253-266
https://exaly.com/article/75553299
16 citations

83 **Wheat Yield Potential in Controlled-Environment Vertical Farms**
Proceedings of the National Academy of Sciences of the United States of America · 117, 19131-19135
https://exaly.com/article/75887887
211 citations

84 **BLIGHTSIM: A New Potato Late Blight Model Simulating the Response of Phytophthora infestans to Diurnal Temperature and Humidity Fluctuations in Relation to Climate Change**
Pathogens · 9, 659
https://exaly.com/article/76119657
29 citations

Ordered by publication year, newest first

2020 / continued

85 Modelling the Effects of Post-Heading Heat Stress on Biomass Partitioning, and Grain Number and Weight of Wheat
31 citations
Journal of Experimental Botany · 71, 6015-6031
https://exaly.com/article/76164437

86 Narrowing Uncertainties in the Effects of Elevated CO2 on Crops
159 citations
Nature Food · 1, 775-782
https://exaly.com/article/76366736

87 Sources of Uncertainty for Wheat Yield Projections Under Future Climate Are Site-Specific
109 citations
Nature Food · 1, 720-728
https://exaly.com/article/76504125

88 A Regional Nuclear Conflict Would Compromise Global Food Security
124 citations
Proceedings of the National Academy of Sciences of the United States of America · 117, 7071-7081
https://exaly.com/article/76912060

89 Emergent Constraint on Crop Yield Response to Warmer Temperature From Field Experiments
195 citations
Nature Sustainability · 3, 908-916
https://exaly.com/article/77067462

90 CGIAR Modeling Approaches for Resource-Constrained Scenarios: I. Accelerating Crop Breeding for a Changing Climate
58 citations
Crop Science · 60, 547-567
https://exaly.com/article/77406527

91 Importance of Genetic Parameters and Uncertainty of MANIHOT, a New Mechanistic Cassava Simulation Model
15 citations
European Journal of Agronomy · 115, 126031
https://exaly.com/article/77600091

92 Towards a Multiscale Crop Modelling Framework for Climate Change Adaptation Assessment
292 citations
Nature Plants · 6, 338-348
https://exaly.com/article/77635686

93 Genetic Dissection of Heat-Responsive Physiological Traits to Improve Adaptation and Increase Yield Potential in Soft Winter Wheat
25 citations
BMC Genomics · 21, 1-15
https://exaly.com/article/77650809

Ordered by publication year, newest first

2020 / continued

94 **iCROPM 2020: Crop Modeling for the Future**
Journal of Agricultural Science · 158, 791-793
https://exaly.com/article/84667116
0 citations

95 **Experimental and Simulated Wheat Data From Across a Temperature Gradient Along the River Nile in Egypt**
Open Data Journal for Agricultural Research · 6, 19-20
https://exaly.com/article/87717040
0 citations

96 **Experimental Field Data for Modeling the Growth Response of Tef to Nitrogen Fertilizer and Water Stress**
Open Data Journal for Agricultural Research · 6, 8-13
https://exaly.com/article/117738295
0 citations

2019

97 **A SIMPLE Crop Model**
European Journal of Agronomy · 104, 97-106
https://exaly.com/article/72894167
122 citations

98 **Adapting Irrigated and Rainfed Wheat to Climate Change in Semi-Arid Environments: Management, Breeding Options and Land Use Change**
European Journal of Agronomy · 109, 125915
https://exaly.com/article/73136561
38 citations

99 **Impacts of Tropospheric Ozone and Climate Change on Mexico Wheat Production**
Climatic Change · 155, 157-174
https://exaly.com/article/73143256
21 citations

100 **Integrating Satellite and Climate Data to Predict Wheat Yield in Australia Using Machine Learning Approaches**
Agricultural and Forest Meteorology · 274, 144-159
https://exaly.com/article/73220582
513 citations

101 **Future Farms Without Farmers**
Science Robotics
https://exaly.com/article/73395134
50 citations

102 **Model-Driven Multidisciplinary Global Research to Meet Future Needs: The Case for “Improving Radiation Use Efficiency to Increase Yield”**
Crop Science · 59, 843-849
https://exaly.com/article/73396320
15 citations

Ordered by publication year, newest first

2019 / continued

103 Simulation Models as Tools for Crop Management
Journal unavailable
https://exaly.com/article/73540977
2 citations

104 Modeling the Effects of Tropospheric Ozone on Wheat Growth and Yield
European Journal of Agronomy · 105, 13-23
https://exaly.com/article/73762425
30 citations

105 A Crop Simulation Model for Tef (Eragrostis tef (Zucc.) Trotter)
Agronomy · 9, 817
https://exaly.com/article/74138480
13 citations

106 Understanding the Genetic Basis of Spike Fertility to Improve Grain Number, Harvest Index, and Grain Yield in Wheat Under High Temperature Stress Environments
Frontiers in Plant Science · 10, 475449
https://exaly.com/article/74358756
59 citations

107 Comparing the Effects of Growing Conditions on Simulated Ethiopian Tef and Wheat Yields
Agricultural and Forest Meteorology · 266, 208-220
https://exaly.com/article/74643543
7 citations

108 Global Wheat Production With 1.5 and 2.0°C Above Pre-Industrial Warming
Global Change Biology · 25, 1428-1444
https://exaly.com/article/74759110
166 citations

109 Climate Change Impact and Adaptation for Wheat Protein
Global Change Biology · 25, 155-173
https://exaly.com/article/74775980
494 citations

2018

110 Wheat Responses to Climate Change and Its Adaptations: A Focus on Arid and Semi-Arid Environment
International Journal of Environmental Research · 12, 117-126
https://exaly.com/article/69047953
58 citations

111 A Review of Tef Physiology for Developing a Tef Crop Model
European Journal of Agronomy · 94, 54-66
https://exaly.com/article/69079565
32 citations

112 Australian Wheat Production Expected to Decrease by the Late 21st Century
Global Change Biology · 24, 2403-2415
https://exaly.com/article/69160840
93 citations

Ordered by publication year, newest first

2018 / continued

113 How Does Inter-Annual Variability of Attainable Yield Affect the Magnitude of Yield Gaps for Wheat and Maize? An Analysis at Ten Sites

42 citations

Agricultural Systems · 159, 199-208

https://exaly.com/article/69464145

114 Improving the Use of Crop Models for Risk Assessment and Climate Change Adaptation

160 citations

Agricultural Systems · 159, 296-306

https://exaly.com/article/69624945

115 Classifying Multi-Model Wheat Yield Impact Response Surfaces Showing Sensitivity to Temperature and Precipitation Change

53 citations

Agricultural Systems · 159, 209-224

https://exaly.com/article/69637078

116 Climate Change Impact on Global Potato Production

194 citations

European Journal of Agronomy · 100, 87-98

https://exaly.com/article/69694231

117 Physical Robustness of Canopy Temperature Models for Crop Heat Stress Simulation Across Environments and Production Conditions

49 citations

Field Crops Research · 216, 75-88

https://exaly.com/article/69751111

118 Can Egypt Become Self-Sufficient in Wheat?

104 citations

Environmental Research Letters · 13, 094012

https://exaly.com/article/69796940

119 Soil Organic Carbon and Nitrogen Feedbacks on Crop Yields Under Climate Change

57 citations

Agricultural and Environmental Letters · 3, 180026

https://exaly.com/article/70658786

120 Climate Change Impact on Mexico Wheat Production

91 citations

Agricultural and Forest Meteorology · 263, 373-387

https://exaly.com/article/70867681

121 Irrigation Method and Application Timing Effect on Potato Nitrogen Fertilizer Uptake Efficiency

20 citations

Nutrient Cycling in Agroecosystems · 112, 253-264

https://exaly.com/article/70886379

122 Multimodel Ensembles Improve Predictions of Crop–Environment–Management Interactions

160 citations

Global Change Biology · 24, 5072-5083

https://exaly.com/article/71330105

Ordered by publication year, newest first

2018 / continued

123 **Cropping Systems and Climate Change in Humid Subtropical Environments**
Agronomy · 8, 19
https://exaly.com/article/71385981
19 citations

124 **Estimating Spring Frost and Its Impact on Yield Across Winter Wheat in China**
Agricultural and Forest Meteorology · 260, 154-164
https://exaly.com/article/71744651
162 citations

125 **Simulation Models as Tools for Crop Management**
Journal unavailable
https://exaly.com/article/112485470
1 citations

2017

126 **Canopy Temperature for Simulation of Heat Stress in Irrigated Wheat in a Semi-Arid Environment: A Multi-Model Comparison**
Field Crops Research · 202, 21-35
https://exaly.com/article/65813996
116 citations

127 **Performance of the SUBSTOR-Potato Model Across Contrasting Growing Conditions**
Field Crops Research · 202, 57-76
https://exaly.com/article/65850316
93 citations

128 **Simulating the Impact of Source-Sink Manipulations in Wheat**
Field Crops Research · 202, 47-56
https://exaly.com/article/65858489
81 citations

129 **Crop Model Improvement Reduces the Uncertainty of the Response to Temperature of Multi-Model Ensembles**
Field Crops Research · 202, 5-20
https://exaly.com/article/65865371
142 citations

130 **Comparing Estimates of Climate Change Impacts From Process-Based and Statistical Crop Models**
Environmental Research Letters · 12, 015001
https://exaly.com/article/65950846
312 citations

131 **Modification of the CERES Grain Sorghum Model to Simulate Optimum Sweet Sorghum Rooting Depth for Rainfed Production on Coarse Textured Soils in a Sub-Tropical Environment**
Agricultural Water Management · 181, 47-55
https://exaly.com/article/66348307
20 citations

Ordered by publication year, newest first

2017 / continued

132 **Contribution of Crop Models to Adaptation in Wheat** — 276 citations
Trends in Plant Science · 22, 472-490
https://exaly.com/article/66546739

133 **Modelling Wheat Yield Change Under CO2 Increase, Heat and Water Stress in Relation to Plant Available Water Capacity in Eastern Australia** — 46 citations
European Journal of Agronomy · 90, 152-161
https://exaly.com/article/66982664

134 **Modelling the Effects of Post-Heading Heat Stress on Biomass Growth of Winter Wheat** — 56 citations
Agricultural and Forest Meteorology · 247, 476-490
https://exaly.com/article/67016874

135 **An AgMIP Framework for Improved Agricultural Representation in Integrated Assessment Models** — 88 citations
Environmental Research Letters · 12, 125003
https://exaly.com/article/67036810

136 **The Uncertainty of Crop Yield Projections Is Reduced by Improved Temperature Response Functions** — 219 citations
Nature Plants · 3, 1-13
https://exaly.com/article/67068381

137 **The Implication of Input Data Aggregation on Up-Scaling Soil Organic Carbon Changes** — 31 citations
Environmental Modelling and Software · 96, 361-377
https://exaly.com/article/67215788

138 **Temperature Increase Reduces Global Yields of Major Crops in Four Independent Estimates** — 2,862 citations
Proceedings of the National Academy of Sciences of the United States of America · 114, 9326-9331
https://exaly.com/article/67299782

139 **Hot Spots of Wheat Yield Decline With Rising Temperatures** — 117 citations
Global Change Biology · 23, 2464-2472
https://exaly.com/article/67643050

140 **Baseline Simulation for Global Wheat Production With CIMMYT Mega-Environment Specific Cultivars** — 48 citations
Field Crops Research · 202, 122-135
https://exaly.com/article/67700028

Ordered by publication year, newest first

2017 / continued

141 **A Potato Model Intercomparison Across Varying Climates and Productivity Levels** — 118 citations
Global Change Biology · 23, 1258-1281
https://exaly.com/article/67756026

142 **Climate Change Impacts and Adaptation in Florida's Agriculture** — 10 citations
Journal unavailable
https://exaly.com/article/87597196

143 **Spatiotemporal Changes in Wheat Phenology, Yield and Water Use Efficiency Under the CMIP5 Multimodel Ensemble Projections in Eastern Australia** — 32 citations
Climate Research · 72, 83-99
https://exaly.com/article/88951719

144 **Wheat Crop Modelling to Improve Yields** — 3 citations
Burleigh Dodds Series in Agricultural Science
https://exaly.com/article/111687138

2016

145 **Impact of Spatial Soil and Climate Input Data Aggregation on Regional Yield Simulations** — 94 citations
PLoS ONE · 11, e0151782
https://exaly.com/article/63281587

146 **Testing the Responses of Four Wheat Crop Models to Heat Stress at Anthesis and Grain Filling** — 150 citations
Global Change Biology · 22, 1890-1903
https://exaly.com/article/63431437

147 **Multi-Wheat-Model Ensemble Responses to Interannual Climate Variability** — 51 citations
Environmental Modelling and Software · 81, 86-101
https://exaly.com/article/64040622

148 **Performance of DSSAT-Nwheat Across a Wide Range of Current and Future Growing Conditions** — 93 citations
European Journal of Agronomy · 81, 27-36
https://exaly.com/article/64177894

149 **Estimating Model Prediction Error: Should You Treat Predictions as Fixed or Random?** — 39 citations
Environmental Modelling and Software · 84, 529-539
https://exaly.com/article/64184153

Ordered by publication year, newest first

2016 / continued

150 **Uncertainty of Wheat Water Use: Simulated Patterns and Sensitivity to Temperature and CO2**

Field Crops Research · 198, 80-92

https://exaly.com/article/64466724

59 citations

151 **Lessons From Climate Modeling on the Design and Use of Ensembles for Crop Modeling**

Climatic Change · 139, 551-564

https://exaly.com/article/64589292

91 citations

152 **Similar Estimates of Temperature Impacts on Global Wheat Yield by Three Independent Methods**

Nature Climate Change · 6, 1130-1136

https://exaly.com/article/64593921

477 citations

153 **The Value of Seasonal Forecasts for Irrigated, Supplementary Irrigated, and Rainfed Wheat Cropping Systems in Northwest Mexico**

Agricultural Systems · 147, 76-86

https://exaly.com/article/65239292

25 citations

154 **Spatial Sampling of Weather Data for Regional Crop Yield Simulations**

Agricultural and Forest Meteorology · 220, 101-115

https://exaly.com/article/65369940

41 citations

155 **Simulating Cultivar Variations in Potato Yields for Contrasting Environments**

Agricultural Systems · 145, 51-63

https://exaly.com/article/65434484

51 citations

156 **Modelling the Effects of Heat Stress on Post-Heading Durations in Wheat: A Comparison of Temperature Response Routines**

Agricultural and Forest Meteorology · 222, 45-58

https://exaly.com/article/65456092

49 citations

157 **Evaluating the Precision of Eight Spatial Sampling Schemes in Estimating Regional Means of Simulated Yield for Two Crops**

Environmental Modelling and Software · 80, 100-112

https://exaly.com/article/65619892

32 citations

158 **Is a 10-Day Rainfall Forecast of Value in Dry-Land Wheat Cropping?**

Agricultural and Forest Meteorology · 216, 170-176

https://exaly.com/article/65688161

24 citations

Ordered by publication year, newest first

2016 / continued

159 **Using Historical Climate Observations to Understand Future Climate Change Crop Yield Impacts in the Southeastern US**

13 citations

Climatic Change · 134, 311-326

https://exaly.com/article/65768192

160 **Benchmark Data Set for Wheat Growth Models: Field Experiments and AgMIP Multi-Model Simulations**

0 citations

Open Data Journal for Agricultural Research

https://exaly.com/article/87717028

2015

161 **Response of Wheat Growth, Grain Yield and Water Use to Elevated CO2 Under a Free-Air CO2 Enrichment (FACE) Experiment and Modelling in a Semi-Arid Environment**

170 citations

Global Change Biology · 21, 2670-2686

https://exaly.com/article/60221741

162 **Uncertainties of Climate Change Impacts in Agriculture**

9 citations

Procedia Environmental Sciences · 29, 304

https://exaly.com/article/61415176

163 **Crop Modelling for Integrated Assessment of Risk to Food Production From Climate Change**

272 citations

Environmental Modelling and Software · 72, 287-303

https://exaly.com/article/61625369

164 **Does Decadal Climate Variation Influence Wheat and Maize Production in the Southeast USA?**

25 citations

Agricultural and Forest Meteorology · 204, 1-9

https://exaly.com/article/61675743

165 **Exploring Climate Change Impacts and Adaptation Options for Maize Production in the Central Rift Valley of Ethiopia Using Different Climate Change Scenarios and Crop Models**

132 citations

Climatic Change · 129, 145-158

https://exaly.com/article/61716950

166 **Impact of Climate Change on Wheat Flowering Time in Eastern Australia**

98 citations

Agricultural and Forest Meteorology · 209, 11-21

https://exaly.com/article/62263006

Ordered by publication year, newest first

2015 / continued

167 **A Statistical Analysis of Three Ensembles of Crop Model Responses to Temperature and CO2 Concentration**
37 citations
Agricultural and Forest Meteorology · 214, 483-493
https://exaly.com/article/62418502

168 **The AgMIP Coordinated Climate-Crop Modeling Project (C3MP): Methods and Protocols**
11 citations
ICP Series on Climate Change Impacts, Adaptation, and Mitigation
https://exaly.com/article/62639280

169 **Effects of Climate Trends and Variability on Wheat Yield Variability in Eastern Australia**
39 citations
Climate Research · 64, 173-186
https://exaly.com/article/62707608

170 **Uncertainties in Scaling-Up Crop Models for Large-Area Climate Change Impact Assessments**
12 citations
ICP Series on Climate Change Impacts, Adaptation, and Mitigation
https://exaly.com/article/62749540

171 **Statistical Analysis of Large Simulated Yield Datasets for Studying Climate Effects**
4 citations
ICP Series on Climate Change Impacts, Adaptation, and Mitigation
https://exaly.com/article/62749541

172 **Rising Temperatures Reduce Global Wheat Production**
2,112 citations
Nature Climate Change · 5, 143-147
https://exaly.com/article/62772500

173 **Multimodel Ensembles of Wheat Growth: Many Models Are Better Than One**
490 citations
Global Change Biology · 21, 911-925
https://exaly.com/article/62783271

174 **Crop Modeling for Climate Change Impact and Adaptation**
43 citations
Journal unavailable
https://exaly.com/article/62904579

175 **Impacts of Recent Climate Warming, Cultivar Changes, and Crop Management on Winter Wheat Phenology Across the Loess Plateau of China**
197 citations
Agricultural and Forest Meteorology · 200, 135-143
https://exaly.com/article/62908923

176 **Effect of Weather Data Aggregation on Regional Crop Simulation for Different Crops, Production Conditions, and Response Variables**
44 citations
Climate Research · 65, 141-157
https://exaly.com/article/88951561

Ordered by publication year, newest first

2015 / continued

177 **Temperature and Precipitation Effects on Wheat Yield Across a European Transect: A Crop Model Ensemble Analysis Using Impact Response Surfaces**
131 citations
Climate Research · 65, 87-105
https://exaly.com/article/88951591

178 **Variability of Effects of Spatial Climate Data Aggregation on Regional Yield Simulation by Crop Models**
48 citations
Climate Research · 65, 53-69
https://exaly.com/article/88951597

2014

179 **Simulation Modeling: Applications in Cropping Systems**
46 citations
Journal unavailable
https://exaly.com/article/57473928

180 **Tailoring Wheat Management to ENSO Phases for Increased Wheat Production in Paraguay**
12 citations
Climate Risk Management · 3, 24-38
https://exaly.com/article/58133809

181 **Making the Most of Climate Impacts Ensembles**
51 citations
Nature Climate Change · 4, 77-80
https://exaly.com/article/58299667

182 **Climate Variability and Change in the Central Rift Valley of Ethiopia: Challenges for Rainfed Crop Production**
0 citations
Journal of Agricultural Science · 152, 58-74
https://exaly.com/article/58549702

183 **Climate-Induced Yield Variability and Yield Gaps of Maize (Zea mays L.) in the Central Rift Valley of Ethiopia**
113 citations
Field Crops Research · 160, 41-53
https://exaly.com/article/58810526

184 **Potato, Sweet Potato, and Yam Models for Climate Change: A Review**
96 citations
Field Crops Research · 166, 173-185
https://exaly.com/article/59414846

185 **Post-Heading Heat Stress and Yield Impact in Winter Wheat of China**
153 citations
Global Change Biology · 20, 372-381
https://exaly.com/article/59720755

Ordered by publication year, newest first

2013

186 **Uncertainty in Simulating Wheat Yields Under Climate Change** — 1,182 citations
Nature Climate Change · 3, 827-832
https://exaly.com/article/54910330

187 **Optimizing Triticale Sowing Densities Across the Mediterranean Basin** — 7 citations
Field Crops Research · 144, 167-178
https://exaly.com/article/54994672

188 **Adapting to Climate Variability and Change: Experiences From Cereal-Based Farming in the Central Rift and Kobo Valleys, Ethiopia** — 97 citations
Environmental Management · 52, 1115-1131
https://exaly.com/article/55199563

189 **Adapting Dryland Agriculture to Climate Change: Farming Implications and Research and Development Needs in Western Australia** — 66 citations
Climatic Change · 118, 167-181
https://exaly.com/article/55222462

190 **Quantifying the Interactive Impacts of Global Dimming and Warming on Wheat Yield and Water Use in China** — 64 citations
Agricultural and Forest Meteorology · 182, 342-351
https://exaly.com/article/55260234

191 **Influences of Increasing Temperature on Indian Wheat: Quantifying Limits to Predictability** — 36 citations
Environmental Research Letters · 8, 034016
https://exaly.com/article/55401762

192 **The Agricultural Model Intercomparison and Improvement Project (AgMIP): Protocols and Pilot Studies** — 855 citations
Agricultural and Forest Meteorology · 170, 166-182
https://exaly.com/article/55561798

193 **Has Climate Change Opened New Opportunities for Wheat Cropping in Argentina?** — 22 citations
Climatic Change · 117, 181-196
https://exaly.com/article/56015280

194 **Evaluating the Fidelity of Downscaled Climate Data on Simulated Wheat and Maize Production in the Southeastern US** — 14 citations
Regional Environmental Change · 13, 101-110
https://exaly.com/article/56081900

195 **Putting Mechanisms Into Crop Production Models** — 212 citations
Plant, Cell and Environment · 36, 1658-1672
https://exaly.com/article/56494235

Ordered by publication year, newest first

2013 / continued

196 Agriculture and Climate Change in the Southeast USA — 7 citations
Journal unavailable
https://exaly.com/article/56570253

2012

197 'Haying-Off' in Wheat Is Predicted to Increase Under a Future Climate in South-Eastern Australia — 0 citations
Crop and Pasture Science · 63, 593-605
https://exaly.com/article/52972556

198 Managing Mixed Wheat–Sheep Farms With a Seasonal Forecast — 19 citations
Agricultural Systems · 113, 50-56
https://exaly.com/article/53795543

199 Optimal N Fertiliser Management Based on a Seasonal Forecast — 76 citations
European Journal of Agronomy · 38, 66-73
https://exaly.com/article/54521254

200 Adaptation of Grain Legumes to Climate Change: A Review — 172 citations
Agronomy for Sustainable Development · 32, 31-44
https://exaly.com/article/54709887

2011

201 The Impact of Temperature Variability on Wheat Yields — 869 citations
Global Change Biology · 17, 997-1012
https://exaly.com/article/50976810

202 Yield Benefits of Triticale Traits for Wheat Under Current and Future Climates — 37 citations
Field Crops Research · 124, 14-24
https://exaly.com/article/51175793

2010

203 Rainfall–Human–Spatial Interactions in a Salinity-Prone Agricultural Region of the Western Australian Wheat-Belt — 8 citations
Ecological Modelling · 221, 812-824
https://exaly.com/article/48062724

204 Eco-Efficient Agriculture: Concepts, Challenges, and Opportunities — 252 citations
Crop Science · 50, S-109
https://exaly.com/article/48691361

Ordered by publication year, newest first

2010 / continued

205 Potential Benefits of Early Vigor and Changes in Phenology in Wheat to Adapt to Warmer and Drier Climates
114 citations
Agricultural Systems · 103, 127-136
https://exaly.com/article/49577048

2009

206 Impacts of Recent Climate Change on Wheat Production Systems in Western Australia
71 citations
Climatic Change · 92, 495-517
https://exaly.com/article/46182027

207 Optimising Sowing Date of Durum Wheat in a Variable Mediterranean Environment
123 citations
Field Crops Research · 111, 109-118
https://exaly.com/article/46679018

208 Plant Available Soil Water at Sowing in Mediterranean Environments—Is It a Useful Criterion to Aid Nitrogen Fertiliser and Sowing Decisions?
45 citations
Field Crops Research · 114, 127-136
https://exaly.com/article/46679132

209 Crop Physiology, Modelling and Climate Change: Impact and Adaptation Strategies
21 citations
Journal unavailable
https://exaly.com/article/46878244

210 A Simulation Analysis on Climate Change—Threats or Opportunities for Agriculture
1 citations
Journal unavailable
https://exaly.com/article/83746020

2008

211 Mapping Subsoil Acidity and Shallow Soil Across a Field With Information From Yield Maps, Geophysical Sensing and the Grower
28 citations
Precision Agriculture · 9, 3-15
https://exaly.com/article/43224054

212 The Potential Value of Seasonal Forecasts of Rainfall Categories—Case Studies From the Wheatbelt in Western Australia's Mediterranean Region
40 citations
Agricultural and Forest Meteorology · 148, 606-618
https://exaly.com/article/44007141

213 Systems Analysis of Wheat Production on Low Water-Holding Soils in a Mediterranean-Type Environment: I. Yield Potential and Quality
32 citations
Field Crops Research · 105, 97-106
https://exaly.com/article/44082980

Ordered by publication year, newest first

2008 / continued

214 Systems Analysis of Wheat Production on Low Water-Holding Soils in a Mediterranean-Type Environment: II. Drainage and Nitrate Leaching

17 citations

Field Crops Research · 107, 211-220

https://exaly.com/article/44083049

2007

215 Water Excess Under Simulated Lucerne–Wheat Phased Systems in Western Australia

0 citations

Australian Journal of Agricultural Research · 58, 826-838

https://exaly.com/article/41751636

216 High Ear Number Is Key to Achieving High Wheat Yields in the High-Rainfall Zone of South-Western Australia

0 citations

Australian Journal of Agricultural Research · 58, 21-27

https://exaly.com/article/42148201

217 Optimizing Wheat Productivity in Two Rain-Fed Environments of the West Asia–North Africa Region Using a Simulation Model

76 citations

European Journal of Agronomy · 26, 121-129

https://exaly.com/article/42944998

218 Yield and Environmental Benefits of Ameliorating Subsoil Constraints Under Variable Rainfall in a Mediterranean Environment

37 citations

Plant and Soil · 297, 29-42

https://exaly.com/article/43097218

219 Modelling Genotype × Environment × Management Interactions to Improve Yield, Water Use Efficiency and Grain Protein in Wheat

16 citations

Journal unavailable

https://exaly.com/article/83184554

220 Reliability of Canola Production in Different Rainfall Zones of Western Australia

0 citations

Australian Journal of Agricultural Research · 58, 326-334

https://exaly.com/article/85070392

2006

221 Climate Change Impacts on Wheat Production in a Mediterranean Environment in Western Australia

159 citations

Agricultural Systems · 90, 159-179

https://exaly.com/article/39847812

Ordered by publication year, newest first

2006 / continued

222 **Determining the Causes of Spatial and Temporal Variability of Wheat Yields at Sub-Field Scale Using a New Method of Upscaling a Crop Model**

102 citations

Plant and Soil · 283, 203-215

https://exaly.com/article/40612747

223 **A Flexible Approach to Managing Variability in Grain Yield and Nitrate Leaching at Within-Field to Farm Scales**

23 citations

Precision Agriculture · 7, 405-417

https://exaly.com/article/40613339

224 **Trade-Off Between Wheat Yield and Drainage Under Current and Climate Change Conditions in Northeast Germany**

45 citations

European Journal of Agronomy · 24, 333-342

https://exaly.com/article/40758925

225 **Simulation of Environmental and Genetic Effects on Grain Protein Concentration in Wheat**

58 citations

European Journal of Agronomy · 25, 119-128

https://exaly.com/article/40758942

226 **Consequences of Rainfall During Summer–Autumn Fallow on Available Soil Water and Subsequent Drainage in Annual-Based Cropping Systems**

0 citations

Australian Journal of Agricultural Research · 57, 281-296

https://exaly.com/article/85070323

2005

227 **Simulating Lucerne Growth and Water Use on Diverse Soil Types in a Mediterranean-Type Environment**

0 citations

Australian Journal of Agricultural Research · 56, 503-515

https://exaly.com/article/37940083

228 **Productivity, Sustainability, and Rainfall-Use Efficiency in Australian Rainfed Mediterranean Agricultural Systems**

0 citations

Australian Journal of Agricultural Research · 56, 1123-1136

https://exaly.com/article/37950968

229 **Soil Water Extraction and Biomass Production by Lucerne in the South of Western Australia**

0 citations

Australian Journal of Agricultural Research · 56, 389-404

https://exaly.com/article/85070330

Ordered by publication year, newest first

2004

230 Simulated Wheat Growth Affected by Rising Temperature, Increased Water Deficit and Elevated Atmospheric CO2

259 citations

Field Crops Research · 85, 85-102

https://exaly.com/article/37602344

231 Simulating Lupin Development, Growth, and Yield in a Mediterranean Environment

0 citations

Australian Journal of Agricultural Research · 55, 863-877

https://exaly.com/article/37608427

2003

232 Modelling Yield Losses of Aluminium-Resistant and Aluminium-Sensitive Wheat Due to Subsurface Soil Acidity: Effects of Rainfall, Liming and Nitrogen Application

29 citations

Plant and Soil · 254, 349-360

https://exaly.com/article/34878063

233 Analysis of the Benefits to Wheat Yield From Assimilates Stored Prior to Grain Filling in a Range of Environments

137 citations

Plant and Soil · 256, 217-229

https://exaly.com/article/34883700

234 An Overview of APSIM, a Model Designed for Farming Systems Simulation

2,281 citations

European Journal of Agronomy · 18, 267-288

https://exaly.com/article/34993551

235 Sensitivity of Productivity and Deep Drainage of Wheat Cropping Systems in a Mediterranean Environment to Changes in CO2, Temperature and Precipitation

124 citations

Agriculture, Ecosystems and Environment · 97, 255-273

https://exaly.com/article/35036107

236 Evaluating the Impact of a Trait for Increased Specific Leaf Area on Wheat Yields Using a Crop Simulation Model

0 citations

Agronomy Journal · 95, 10

https://exaly.com/article/36214006

237 Estimating Spatially Variable Deep Drainage Across a Central-Eastern Wheatbelt Catchment, Western Australia

0 citations

Australian Journal of Agricultural Research · 54, 789-802

https://exaly.com/article/36228355

238 Evaluating the Impact of a Trait for Increased Specific Leaf Area on Wheat Yields Using a Crop Simulation Model

22 citations

Agronomy Journal · 95, 10-19

https://exaly.com/article/123466704

Ordered by publication year, newest first

2002

239 **Simulating Phenology and Yield Response of Canola to Sowing Date in Western Australia Using the APSIM Model**

Australian Journal of Agricultural Research · 53, 1155-1164

https://exaly.com/article/33854387

0 citations

240 **Environmental and Genotypic Control of Time to Flowering in Canola and Indian Mustard**

Australian Journal of Agricultural Research · 53, 793-809

https://exaly.com/article/33869869

0 citations

241 **Simulation of Grain Protein Content With APSIM-Nwheat**

European Journal of Agronomy · 16, 25-42

https://exaly.com/article/34482498

107 citations

242 **A Simulation Analysis That Predicts the Influence of Physiological Traits on the Potential Yield of Wheat**

European Journal of Agronomy · 17, 123-141

https://exaly.com/article/34482528

62 citations

2001

243 **Analysis of Water- and Nitrogen-Use Efficiency of Wheat in a Mediterranean Climate**

Plant and Soil · 233, 127-143

https://exaly.com/article/33125376

147 citations

244 **An Analysis of the Frequency and Timing of False Break Events in the Mediterranean Region of Western Australia**

Australian Journal of Agricultural Research · 52, 367-376

https://exaly.com/article/85071761

0 citations

245 **Potential Deep Drainage Under Wheat Crops in a Mediterranean Climate. I. Temporal and Spatial Variability**

Australian Journal of Agricultural Research · 52, 45-56

https://exaly.com/article/85071767

0 citations

246 **Potential Deep Drainage Under Wheat Crops in a Mediterranean Climate. II. Management Opportunities to Control Drainage**

Australian Journal of Agricultural Research · 52, 57-66

https://exaly.com/article/85071768

0 citations

Ordered by publication year, newest first

2000

247 **Performance and Application of the APSIM Nwheat Model in the Netherlands**
European Journal of Agronomy · 12, 37-54
https://exaly.com/article/31479745
139 citations

248 **Canopy CO2 Assimilation, Energy Balance, and Water Use Efficiency of an Alfalfa Crop Before and After Cutting**
Field Crops Research · 67, 191-206
https://exaly.com/article/32020369
55 citations

249 **Computer-Assisted Tomography and Magnetic Resonance Imaging**
Journal unavailable
https://exaly.com/article/83947650
37 citations

250 **Modelling Root System Growth and Architecture**
Journal unavailable
https://exaly.com/article/83947657
25 citations

1998

251 **Root Growth and Water Uptake During Water Deficit and Recovering in Wheat**
Plant and Soil · 201, 265-273
https://exaly.com/article/28871491
138 citations

252 **Performance of the APSIM-Wheat Model in Western Australia**
Field Crops Research · 57, 163-179
https://exaly.com/article/29190801
246 citations

253 **Wheat Response to Alternative Crops on a Duplex Soil**
Australian Journal of Experimental Agriculture · 38, 481-488
https://exaly.com/article/29794661
0 citations

254 **Use of the APSIM Wheat Model to Predict Yield, Drainage, and NO3- Leaching for a Deep Sand**
Australian Journal of Agricultural Research · 49, 363-378
https://exaly.com/article/85068070
0 citations

255 **Nitrogen and Water Flows Under Pasture–Wheat and Lupin–Wheat Rotations in Deep Sands in Western Australia. 1. Nitrogen Fixation in Legumes, Net N Mineralisation,And Utilisation of Soil-Derived Nitrogen**
Australian Journal of Agricultural Research · 49, 329-344
https://exaly.com/article/85068099
0 citations

Ordered by publication year, newest first

1998 / continued

256 **Nitrogen and Water Flows Under Pasture–Wheat and Lupin–Wheat Rotations in Deep Sands in Western Australia. 2. Drainage and Nitrate Leaching**

Australian Journal of Agricultural Research · 49, 345-362

https://exaly.com/article/85068100

0 citations

1997

257 **Modelling Root Growth of Wheat as the Linkage Between Crop and Soil**

Plant and Soil · 190, 267-277

https://exaly.com/article/28259966

58 citations

End of list · 257 articles. Citation counts use Exaly’s peer-reviewed cohort.