



FIELD CROPS RESEARCH

An International Journal

AUTHOR INFORMATION PACK

TABLE OF CONTENTS

●	Description	p.1
●	Audience	p.2
●	Impact Factor	p.2
●	Abstracting and Indexing	p.2
●	Editorial Board	p.2
●	Guide for Authors	p.6



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DESCRIPTION

Aims and Scope of *Field Crops Research*

Field Crops Research is an **international** journal publishing **scientific articles** on:

✓ **experimental** and **modelling research** at **field, farm** and **landscape** levels on **temperate** and **tropical crops** and **cropping systems**, with a focus on **crop ecology** and **physiology, agronomy, and plant genetics** and **breeding**.

✓ Articles on plant genetics and breeding need to be integrated with crop ecology and physiology, and/or agronomy.

✓ An economic analysis may be included if appropriate.

Papers must demonstrate **new scientific insight, original technologies** or **novel methods** that have general application and relevance to field crops.

× *Research findings of a purely corroborative nature, descriptive or of only local significance will not be considered.*

The journal's focus is **major field crops for food and feed**. This focus includes **species used for cultivated pastures**, but *excludes natural grasslands*. **Other species**, including important biofuel crops, could be considered if they contribute to the basic understanding of processes related to development, growth and yield of field crops.

Field experiments on which manuscripts are based should, unless exceptional circumstances apply, include **at least two seasons and/or multiple locations/environments**. The inclusion of **yield data** is highly encouraged to demonstrate how the field experiments contribute to a better understanding of the bio-physical processes related to crop growth and yield.

Papers on crop protection (diseases, pests, weeds) and **soil processes/properties** can be accepted provided they have **a strong focus on crop processes, including consequences for yield**.

Experiments under controlled conditions (glasshouse, growth chamber) are only acceptable as **complementary to field work**.

Papers on remote sensing will only be considered if their focus is the **use of these techniques to understand crop processes and their links to crop yield**.

Reviews and Opinion Papers covering the various subject areas are **solicited**;

✓ authors should **contact one of the Editors-in-Chief** before submission of a review or an opinion paper in order to establish the journal's interest in the topic and nature of the paper

✓ Contributions dealing with emerging topics are especially welcomed

Out-of-scope submissions:

× *Horticultural (i.e., vegetable and fruit species), woody perennial, medicinal and non-cultivated species are outside the scope of the journal.*

× *Studies carried-out exclusively under controlled conditions are outside the scope of the journal.*

× *Articles on crop storage, transportation and usage, and social studies on crops and cropping systems, are outside the scope of the journal.*

AUDIENCE

Temperate and Tropical Crop Scientists.

IMPACT FACTOR

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ABSTRACTING AND INDEXING

BIOSIS

Biological and Agricultural Index

Elsevier BIOBASE

Current Contents/Agriculture, Biology & Environmental Sciences

Ecological Abstracts

Environmental Abstracts

Field Crop Abstracts

GEOBASE

Geographical Abstracts: Economic Geography

Science Citation Index

TROPAG/RURAL Database

Scopus

EMBiology

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J.M. Lenné, North OldMoss Croft, Aberdeenshire, UK

- legumes; cotton; root and tuber crops; pastures and feed crops; semi-arid cereals

J. Palta

- wheat; maize; barley; oilseeds

E. Humphreys

- rice; other crops

C. van Kessel, University of California, Davis, Davis, California, USA

A.J. Hall, Universidad de Buenos Aires, Buenos Aires, Argentina

Crop ecophysiology. Responses to radiation, to temperature and to water stress. Sunflower, maize, olive.

V.O. Sadras, South Australian R & D Institute, Adelaide, South Australia, Australia

E. Wang, CSIRO (The Commonwealth Scientific and Industrial Research Organization), Canberra, Australian Capital Territory, Australia

Associate Editors:

M. Corbeels, CIRAD, Planaltina, Brazil

Soil fertility; crop modelling; soil carbon and nitrogen dynamics; conservation agriculture; smallholder farming systems.

A. Kamoshita, University of Tokyo, Tokyo, Japan

Crop physiology; drought resistance; efficient use of water and nitrogen; rice; sustainable crop production.

K.-C. Kersebaum, Leibniz Centre for Agricultural Landscape Research, Muencheberg, Germany

Modeling soil-crop-atmosphere interactions, nitrogen dynamics in soils, climate change impact assessment and adaptation, model based evaluation of agricultural management

D. Knight, University of Saskatchewan, Saskatoon, Saskatchewan, Canada

Nutrient cycling, crop system productivity, environmental impacts of agriculture, and optimizing the role of legumes in crop rotations

R. Richards, CSIRO, Acton, ACT 2609, , Australia

Crop physiology, breeding, abiotic stress, yield potential, cereals

R. Rötter, Georg-August Universität Göttingen, Göttingen, Germany

Book Review Editor

J.W. White, US Arid-Land Agricultural Research Center, Maricopa, Arizona, USA

Editorial Advisory Board:

L. Aguirrezabal, Universidad Nacional de Mar del Plata, Pcia. De Buenos Aires, Argentina

Ecophysiology, phenomics, phenotyping, water deficit tolerance, stress tolerance, root systems, oil quality, grain quality, grain filling, source sink relationships, modeling, oil crops, sunflower

J.F. Angus, CSIRO (The Commonwealth Scientific and Industrial Research Organization), Canberra, Australia

Crop and pasture sequences; water and nitrogen dynamics of crops; cropping systems; simulation modelling.

S. Asseng, University of Florida, Gainesville, Florida, USA

cropping systems analysis, crop productivity and sustainability, atmosphere-crop-soil systems, managing climate variability, climate change impact and adaptation

R.W. Bell, Murdoch University, Murdoch, Western Australia, Australia

Soil Fertility and Land Management

L. Borrás, National University of Rosario, Rosario, Argentina

Crop physiology; yield components; seed filling; agronomic practices; abiotic stress.

J.E. Cairns, CIMMYT, Harare, Zimbabwe

Maize, phenotyping, abiotic stress

D.F. Calderini, Universidad Austral de Chile, Valdivia, Chile

Crop physiology, phenotyping, physiological and molecular approaches on grain weight, potential grain yield, abiotic stress

Y. Chauhan, Industry Services - Plant Science, Kingaroy, Queensland, Australia

Expertise in Crop physiology; modelling; aflatoxin prediction models; environmental characterisation; crop improvement; legumes; maize.

Z. Cui, China Agricultural University, Beijing, China

In-season N management strategy based on soil and plant test; Nutrient cycling and sustainability of intensive cropping systems; High yield and high efficiency of intensive cropping systems; Extension of nutrient management.

R. Dill-Macky, University of Minnesota, St. Paul, Minnesota, USA

H. Dong, Shandong Academy of Agricultural Sciences, Jinan, China

Crop ecology; physiology and agronomy with a particular emphasis on cotton physiology and agronomy.

G.O. Edmeades, Cambridge, New Zealand

F. Ewert, Rheinische Friedrich-Wilhelms-Universität Bonn, Bonn, Germany

Climate change (impacts); agroecosystems (ecophysiology); resource use and management (land, water); systems analysis and modelling; agricultural sustainability assessment.

G. Fitzgerald, Agriculture Victoria, Horsham, Victoria, Australia

J. Foulkes, The University of Nottingham, Sutton Bonington, Leicestershire, England, UK

T. Gaiser, Rheinische Friedrich-Wilhelms-Universität Bonn, Bonn, Germany

Modelling of crop-soil interface; crop water uptake; nutrient turnover and nutrient uptake; soil carbon and nitrogen turnover; tropical cereal and tuber crops; soil salinity; pollution of surface and ground waters from agricultural activities.

L.F. Garcia del Moral, Universidad de Granada, Granada, Spain

Crop physiology; abiotic stress; plant growth analysis; crop phenology; ecophysiological and molecular approaches in plant breeding.

P. Grassini, University of Nebraska at Lincoln, Lincoln, Nebraska, USA
Agronomy

S.M. Haefele, University of Adelaide, Adelaide, Australia
agronomy, black carbon, phenotyping, rice, soil science, wheat.

G. Inman-Bamber, CSIRO (The Commonwealth Scientific and Industrial Research Organization), Townsville, Queensland, Australia
Sugarcane physiology, agrometeorology and water relations, controlled environment studies including CO₂, crop model development

K. Jagadish, International Rice Research Institute (IRRI), Metro Manila, Philippines
Heat stress; combined heat and drought stress; rice reproductive physiology.

C. Johansen, Leeming, Australia
Plant nutrition, crop physiology, drought and salinity stress, agronomy, on-farm research, grain legumes

E. Justes, INRA Centre de Toulouse, Castanet Tolosan Cedex, France
Modelling; analysis and management of Nitrogen (and water) in arable cropping systems; Modelling, analysis and management of cover crops for reaching various agroecological services; Functional analysis and modelling of intercrops (cereal/grain legumes ; soybean/sunflower); Design and multicriteria assessment of innovative cropping systems.

H. Kirchmann, Sveriges lantbruksuniversitet (SLU), Uppsala, Sweden
Turnover, decomposition and nutrient losses from organic manures in soil; Reactions of plant nutrients in soil (nitrogen and phosphorus); Changes in soil fertility in long-term field experiments; Recycling of plant nutrients from wastes; Effects of trace metals on yield and quality of crops; Methods to improve nutrient use efficiency.

F-M. Li, Lanzhou University, Lanzhou, Gansu Province, China
Crop eco-physiological adaptation to arid environment, field crops management, ecosystem sustainable designing and the role of human being in restoring and conserving the structure and function of integrated ecosystem especially in the arid and semiarid regions in Northwest China and other similar regions in the world.

B. Linqvist, University of California, Davis, Davis, California, USA
Rice systems, nutrient and carbon cycling; nutrient management; productivity; greenhouse gas emissions; water quality; water use.

D. Miralles, Universidad de Buenos Aires, Buenos Aires, Argentina
Crop physiology applied to management and breeding; wheat and barley.

M. Otegui, Universidad de Buenos Aires, Buenos Aires, Argentina
Crop physiology; Abiotic stress; Crop Modelling; Agronomy.

S. Peng, Huazhong Agricultural University, Wuhan, Hubei, China
Yield potential; photosynthesis; nitrogen use efficiency; stress physiology; climate change; crop management; rice production.

H-P. Piepho, Universität Hohenheim, Stuttgart, Germany
Linear models; mixed models; spatial statistics; design of experiments.

G. Rebetzke, CSIRO (The Commonwealth Scientific and Industrial Research Organization), Canberra, Australia
Plant breeding; quantitative genetics; statistics; physiology.

M. Robertson, CSIRO (The Commonwealth Scientific and Industrial Research Organization), PO Wembley, Western Australia, Australia
Agronomy; physiology; farming systems; cereals; grain legumes; canola.

C. Royo, Institut de Recerca i Tecnologia Agroalimentaries (IRTA), Lleida, Spain
Wheat and Triticale breeding; genetic resources; grain quality; adaptation; growth and development; spectral reflectance; forage use of cereals.

D. Rubiales, Institute for Sustainable Agriculture, CSIC, Cordoba, Spain
plant breeding; disease resistance; genetic resources utilization; mechanisms of resistance; legumes; cereals; rust; parasitic weed; powdery mildew; ascochyta blight; fusarium wilt

R. Savin, University of Lleida
crop physiology, grain quality, abiotic stresses, nitrogen use efficiency, cereals

Y. Singh, Punjab Agricultural University, Ludhiana, Punjab, India
conservation agriculture, Crop productivity and sustainability, crop residue management, integrated nutrient management, nutrient use efficiency, rice, soil science, soil quality, wheat.

G.A. Slafer, Universitat de Lleida, Lleida, Spain
Wheat; Barley; Cereals; Crop-Physiology; Yield; Yield components; Water use efficiency; Nitrogen use efficiency; trait useful for breeding.

M. Tollenaar, Climate Corporation, USA

V. Vadez, CGIAR Consortium, Patancheru, Andhra Pradesh, India
Drought, symbiotic nitrogen fixation, abiotic stresses, vapor pressure deficit, salinity, low soil fertility, modelling,

L.J. Wade, Brisbane, Australia

Farming systems; GxE interactions; root traits; drought avoidance; perennial grains.

F. Walley, University of Saskatchewan, Saskatoon, Saskatchewan, Canada

agronomy, soil microbiology (N₂ fixation) and cropping systems, with an emphasis on nutrient cycling.

J.W. White, US Arid-Land Agricultural Research Center, Maricopa, Arizona, USA

Crop modeling and global change; tillage; conservation agriculture and zero Tillage sites; carbon sequestration and agriculture; data management; phenomics.

J. Yang, Yangzhou University, Yangzhou, Jiangsu, China

Grain filling of cereals; water-saving irrigation; high-yielding production; abiotic stress.

X. Yin, Wageningen Universiteit, Wageningen, Netherlands

Crop phenology; crop genotype; environment; management interactions; ecophysiological approaches in genetics; gene/QTL-based crop modelling; abiotic stress effects on crop growth; and photosynthesis bioenergetics; physiology and modelling.

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INTRODUCTION

Field Crops Research is an international journal publishing scientific articles on both experimental and modelling research at the field, farm and landscape level on temperate and tropical crops and cropping systems, with a focus on crop ecology and physiology, agronomy, and plant genetics and breeding. Articles on plant genetics and breeding need to be integrated with crop ecology and physiology, and/or agronomy. An economic analysis may be included if appropriate.

Papers must demonstrate new scientific insight, original technologies or novel methods that have general application and relevance to field crops. Research findings of a purely corroborative nature, descriptive or of only local significance will not be considered.

The journal's focus is major field crops for food and feed. Other species, including important biofuel crops, could be considered if they contribute to the basic understanding of processes related to development, growth and yield of field crops. Horticultural, medicinal and non-cultivated species are outside the scope of the journal.

Field experiments on which manuscripts are based should, unless exceptional circumstances apply, include at least two seasons and/or multiple locations/environments. The inclusion of yield data is highly encouraged to demonstrate how the field experiments contribute to a better understanding of the bio-physical processes related to crop growth. Papers on crop protection (diseases, pests, weeds) can be accepted provided they have a strong focus on crop processes, including consequences for yield. Experiments under controlled conditions (glasshouse, growth chamber) are only acceptable as complementary to field work; studies carried-out exclusively under controlled conditions are outside the scope of the journal. Articles on crop storage, transportation and usage, and social studies on crops and cropping systems, are outside the scope of the journal.

Reviews covering the various subject areas are solicited. Authors should contact the Editors-in-Chief before the submission of a review article in order to establish the journal's interest in the topic and nature of the proposed review.

Please note that the Editors are responsible for different areas, as follows:

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5. Book Reviews

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Book reviews will be included in the journal on a range of relevant books which are no more than 2 years old. Book reviews will be solicited by the Book Review editor. Unsolicited reviews will not usually be accepted, but suggestions for appropriate books for review may be sent to: Dr. J.W. White, USDA-ARS, US Arid-Land Agricultural Research Center, 21881 North Cardon Lane, Maricopa, 85138, USA, Email: Jeffrey.White@ars.usda.gov

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Submission

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V.O. Sadras : *Europe and Oceania*

The e-mails of all co-authors must be submitted together with the manuscript.

Referees

Please submit, with the manuscript, the names, addresses and e-mail addresses of 4 potential referees, who have published in refereed international journals. Note that the editor retains the sole right to decide whether or not the suggested reviewers are used.

PREPARATION

NEW SUBMISSIONS

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[dataset] Oguro, M., Imahiro, S., Saito, S., Nakashizuka, T., 2015. Mortality data for Japanese oak wilt disease and surrounding forest compositions. Mendeley Data, v1. <http://dx.doi.org/10.17632/xwj98nb39r.1>.

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There are no strict formatting requirements but all manuscripts must contain the essential elements needed to convey your manuscript, for example Abstract, Keywords, Introduction, Materials and Methods, Results, Conclusions, Artwork and Tables with Captions.

If your article includes any Videos and/or other Supplementary material, this should be included in your initial submission for peer review purposes.

Divide the article into clearly defined sections.

Please ensure the text of your paper is double-spaced and has consecutive line numbering - this is an essential peer review requirement.

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Introduction

State the objectives of the work and provide an adequate background including relevant literature which demonstrates the need for the reported study.

Material and methods

Provide sufficient detail to allow the work to be reproduced. Methods already published should be indicated by a reference: only relevant modifications should be described.

Statistics

For experiments, both the treatment and the design structure, including blocking units, randomization units and observational units, should be clearly identified. When repeated measurements are taken on the same unit, this needs to be explicitly stated. Methods used for statistical analysis should be described with sufficient detail so that a reader, if equipped with the paper, the raw data and the same software, could reproduce all results reported. For example, if an experiment is analysed by a linear mixed model, all fitted terms should be explicitly stated, either in the text or in an equation, specifying which effects are fixed and which are random. For a review of statistical problems frequently encountered with papers submitted to this journal, and how to avoid them, see

Dyke, G., 1997. How to avoid bad statistics. *Field Crops Research* 51, 165-187.

Results

Results should be clear and concise and must be separate from the Discussion section.

Discussion

This should explore the significance of the results of the work, not repeat them. **"Separate Results and Discussion sections are required"**. Avoid extensive citations and discussion of published literature.

Conclusions

The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

Appendices

If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

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