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DESCRIPTION

The European Journal of Agronomy, the official journal of the European Society for Agronomy, publishes original research papers reporting experimental and theoretical contributions to field-based agronomy and crop science. The journal will consider research at the field level for agricultural, horticultural and tree crops, that uses comprehensive and explanatory approaches. The EJA covers the following topics:

crop physiology
crop production and management including irrigation, fertilization and soil management
agroclimatology and modelling plant-soil relationships
crop quality and post-harvest physiology
farming and cropping systems
agroecosystems and the environment
crop-weed interactions and management
organic farming
horticultural crops

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AUDIENCE

Agronomists, crop/plant scientists, soil scientists

IMPACT FACTOR

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Cereals, grain legumes, rapeseed, other grain/seed crops, sugar beet, potato, grasslands

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B. Basso, Michigan State University, East Lansing, Michigan, USA
Crop simulation models (applications, validation, improvements), precision agriculture, remote sensing, GIS in agronomy, climate change, climate variability impact on crop yield and environmental outcomes (N leaching, GHG emissions), nitrogen and water management, soil health, soil organic matter dynamics, ecophysiology, resource use efficiency, cropping systems ecology, conservation agriculture
Maize, wheat and other cereals, legumes

A. Delgado, Universidad de Sevilla, Sevilla, Spain
Fertilization management (all nutrients), soil management (tillage, amendments), plant-soil relationships, conservation agriculture, water management, soil fertility, soil functions as affected by crop management, soil degradation control (erosion, salinity, acidity), pest and diseases, weeds, quality issues Cereals, tree orchards (in particular olive), horticultural crops

T. Döring, Universitaet Bonn, Bonn, Germany
Organic agriculture; Cropping system; Crop rotation; Legume; Diversification; Insect-plant-interactions

Editorial Board:
M. Acutis, Università degli Studi di Milano-Bicocca, Milano, Italy
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Crop modeling; Crop physiology; APSIM; Soil carbon and nitrogen cycling; Soil water; Maize; Soybean; Management practices; Root growth; Groundwater table

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

G. Bergkvist, Sveriges lantbruks universitet (SLU), Uppsala, Sweden
Cropping systems; Agronomy; Weed control; Nutrient use efficiency; Cover crops; Intercropping

L. Borrás, National University of Rosario, Rosario, Argentina
Crop management; Yield; Yield components; Grain quality; Maize; Soybean; Sorghum; Dry milling; Seed development; Seed weight

G. Bragato, C.R.A. Research Centre for Soil Plant System, Gorizia, Italy

H. Brown, The New Zealand Institute for Plant & Food Research Ltd., Christchurch, New Zealand

D. Cammarano, The James Hutton Institute, Dundee, Scotland, UK
Agronomy; Crop Simulation Models; Precision Agriculture; Remote Sensing; Climate Change; Climate Variability; Nitrogen Management

N. Colbach, Institut Nationale de la Recherche Agronomique (INRA), Dijon Cedex, France

C.A.C. Crusciol, São Paulo State University (Brazil), Botucatu, SP, Brazil

J.P.M. de Melo e Abreu, Universidade de Lisboa, Lisboa, Portugal

P. Debaeke, Institut Nationale de la Recherche Agronomique (INRA), Castanet Tolosan, France

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

M. Fotyma, Institute of Soil Science and Plant Cultivation, Pulawy, Poland
M. Fuller, Plymouth University, Plymouth, UK
A. Gardarin, INRA UMR Agronomie, Thiverval-Grignon, France

Weed science: analysing their life-cycle, their biology, their ecology, accounting for their diversity using concepts from ecology, modelling their dynamics, analysing and modelling their interactions with soil, climate and cropping systems; spatial dynamics of plants (weeds and feral oilseed rape) in agroecosystems (agronomical and landscape ecology approaches, metapopulation models), intercropping (mainly plant establishment and early growth in cereal-legume intercrops, effects on weed control); forage quality in grasslands with a strong ecological approach (functional ecology, plant traits, community ecology, effects of management regimes); biological regulations in plurispecific cropping systems. The originality of my background lies in the fact that I use concepts and methods from ecology to address agronomical questions.

C. Hoffmann
B.W. Hütsch, Martin-Luther-Universität Halle-Wittenberg, Halle/Saale, Germany
C.R. Jensen, University of Copenhagen, Taastrup, Denmark
Y. Kato, The University of Tokyo, Tokyo, Japan

Crop physiology and agronomy; Rice; Rainfed and irrigated rice production systems in the tropical, sub-tropical and temperate regions of Asia

J. Kirkegaard, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Canberra, Australian Capital Territory, Australia

G. Lemaire, INRA Centre d’Orléans, Lusignan, France
R.J. Lopez-Bellido, Universidad de Cordoba, Cordoba, Spain
B. Maerlaender, Institut für Zuckerrübenforschung, Göttingen, Germany
M. Mastroiilli, Istituto Sperimentale Agronomico, Bari, Italy
H. Meinke, University of Tasmania, Hobart, Tasmania, Australia

Availability, Stability and Environment. 1) Agricultural systems, 2) Systems modelling, 3) Agricultural value chains, 4) Climate risk Assessment and management, 5) Societal impact of science, 6) Sustainable agricultural practices, 7) Food security and stability, 8) Food systems 9) Land and food, 10) Productive landscapes

D. Moot, Lincoln University NZ, Christchurch, New Zealand
C. Nendel, Leibniz Centre for Agricultural Landscape Research, Muencheberg, Germany

soil and crop modeling; climate change adaptation; soil organic matter mineralisation; C and N cycling in agro-ecosystems; yield assessment and regionalization

S.I. Nilsson, Max Planck Institute (MPI) for Chemical Ecology, Uppsala, Sweden
J.E. Olesen, ICROFS, Tjele, Denmark

M. Pagliai, National Agricultural Research Council, Firenze, Italy
M. Quemada, School of Agricultural Engineering-UPM, Madrid, Spain

Nitrogen fertilization; water and nitrogen management in agricultural systems; cover crops

A. Rashid, Pakistan Academy of Sciences, Islamabad, Pakistan

Soil fertility; Plant nutrition; Micronutrients; Boron; Zinc; Phosphorus; Soil nutrient balances; Soil fertility mapping; Agronomic biofortification; Soil Testing; Plant Analysis

P. Reidsma, Wageningen Universiteit, Wageningen, Netherlands

Climate change; Adaptation; Resilience; Integrated assessment; Yield gap analysis; Farming systems; Bio-economic farm modelling; Sustainable development

D.P. Rondanini, Universidad de Buenos Aires, Buenos Aires, Argentina
W.A.H. Rossing, Wageningen Universiteit, Wageningen, Netherlands

farming systems, crop-pest interactions, farm-landscape interactions, systems analysis and simulation, innovation.

M.C. Rufino, Lancaster University, Lancaster, England, UK
G. Russell, University of Edinburgh, Edinburgh, Scotland, UK
R. Savin, Universitat de Lleida, Lleida, Spain

Cereals (non-rice); Crop physiology; Grain quality; Abiotic stresses; Nitrogen use efficiency; Field crops (mainly wheat, barley, maize and sunflower)

J. Schellberg, Rheinische Friedrich-Wilhelms-Universität Bonn, Bonn, Germany
H.W. Scherer, Institute of Plant Nutrition, Bonn, Germany
U. Schmidhalter, Technische Universität München, Freising-Weihenstephan, Germany
J. Shrestha, Nepal Agricultural Research Council, Rampur, Chitwan, Nepal

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.

H. Stützel, Leibniz Universität Hannover, Hannover, Germany
M. Tagliavini, Libera Università di Bolzano, Bolzano, Italy
F. Tao, Chinese Academy of Sciences (CAS), Beijing, China
E. Triboi, INRA de Clermont-Ferrand/Theix, Clermont-Ferrand, France
N. Vignozzi, CRA-ABP, Firenze, Italy
Plant-Soil relationships; Tillage and soil management
D. Wallach, INRA-UMR ARCHE, Castanet Tolosan Cedex, France
C. Watson, Scotland's Rural College (SRUC), Aberdeen, UK
J. Wery, Montpellier SupAgro, Montpellier Cedex 2, France
B. Wollenweber, Aarhus University, Slagelse, Denmark
P.J. Zarco-Tejada, University of Melbourne, Melbourne, Victoria, Australia
hyperspectral remote sensing, stress detection, manned and Unmanned Aerial Vehicles (UAV RPAS), thermal, water stress, nutrient stress, radiative transfer
X. Zhang, Chinese Academy of Sciences (CAS), Shijiazhuang City, Hebei, China
Agro-meteorology; Crop-water relationship; Crop root growth and soil water use; Deficit irrigation scheduling; Cultivars characters related to drought resistance; Improving crop water use efficiency
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INTRODUCTION
The European Journal of Agronomy, the official journal of the European Society for Agronomy, publishes original research papers reporting experimental and theoretical contributions to field-based agronomy and crop science. The journal will consider research at the field level for agricultural, horticultural and tree crops, that uses comprehensive and explanatory approaches. The EJA covers the following topics:
crop physiology crop production and management including irrigation, fertilization and soil management agroclimatology and modelling plant-soil relationships crop quality and post-harvest physiology farming and cropping systems agroecosystems and the environment crop-weed interactions and management organic farming horticultural crops papers from the European Society for Agronomy bi-annual meetings In determining the suitability of submitted articles for publication, particular scrutiny is placed on the degree of novelty and significance of the research and the extent to which it adds to existing knowledge in agronomy. Confirmatory research and results routine cultivar or agronomy trials in which there are no identified biological processes will not normally be considered for publication. Modelling studies have to be informative and innovative and used to illustrate important generic issues facing agronomy. Studies in which a model is only tested against observed data for its goodness-of-fit are not generally welcome. Field experiments need to be either multi-locational or multi-year and normally three at least and be accompanied by appropriate statistical analysis. Glasshouse experiments are only accepted in exceptional circumstances. Review articles are normally written on invitation from the Editor-in-Chief. Authors intending to prepare review papers for the Journal are advised to consult the Editor-in-Chief before writing their reviews. Forthcoming special issues are focusing on uncertainty analysis in models and the status of non-renewable resources in agriculture.

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