



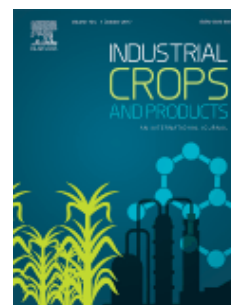
INDUSTRIAL CROPS AND PRODUCTS

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.5



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DESCRIPTION

Industrial Crops and Products is an International Journal publishing academic and industrial research on industrial (**defined as non-food/non-feed**) crops and products. Papers concern both crop-oriented and bio-based materials from crops-oriented research, and should be of interest to an international audience, hypothesis driven, and where comparisons are made statistics performed. The following are examples of research that fit within the scope of the journal.

The emphasis must be on plants. Non-plant research, for instance animal, algae, microorganisms, and medical oriented research are not within the scope of the journal. 2. Non-food/non-feed products (bio-based materials) from specific crops. Food/feed uses can be mentioned, but the majority of data and emphasis in the Discussion must be on non-food/non-feed uses of plants and plant products. Cultural practices to improve production of industrial crops and products. Experiments should be run at least twice, whether performed in the field, greenhouse, growth chamber, and in tissue culture or micropropagation, to account for environmental variation and/or genotype x environment interactions. Germplasm development and breeding of industrial crops. New or alternative crops with potential industrial uses. a. The manuscript should include an evaluation of the real potential to make a plant an industrial crop, not just information on plants gathered in natural habitats (many plants make products, but they will not become a crop). An economic analysis may be included as appropriate. b. *Industrial Crops and Products* is a crop oriented journal; these can be field crops, horticultural crops, or forest crops, but they must be managed, not just collected natural stands. The focus should be on agricultural production as an end result. Plant products, tied to specific crops/plants, and their modification to meet new industrial uses. For instance, for nanoparticles, a direct link is required with an industrial crop or with the respective value-chain. Testing industrial uses of specific plant products. Processing research to improve recovery of specific plant products.

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AUDIENCE

Scientists in the areas of agronomy, crop protection, post-harvest and processing research, product testing and evaluation, distribution, marketing and economics.

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Non-Food Crops

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Non-wood fibers; pulp and paper technology; wood-plastic composite; wood cement bonded composite; fibres

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Mechanics of fibres and fibermats; structure; simulation; heat and mass transfer; optics

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Natural fibres based composites; nanocomposite based on nanosized cellulose filler; surface modification of cellulose fibres

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Starch; thermoplastic starch; polymers and monomers from renewable resources; cellulose fibers and nanofibers

S.C. Cermak, U.S. Department of Agriculture (USDA), Peoria, Illinois, USA
Chemistry; Organic; New Crops; Lubricants; Distillation

R. Chhabra, Indian Institute of Technology (I.I.T.) Kanpur, Kanpur, India
Non-Newtonian behaviour; rheology; viscoelasticity; yield stress; shear-thinning; shear-thickening; thixotropy; food processing; baking characteristics.

M.J. Cocero Alonso, Universidad de Valladolid, Valladolid, Spain

T.A. Coffelt, U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Maricopa, Arizona, USA
Plant breeding (germplasm evaluation and enhancement); genetics and agronomics (planting and harvesting dates, water use, fertility, plant populations, cropping systems, etc.) of oilseed crops and guayule.

K. Cornish, The Ohio State University, Wooster, Ohio, USA
rubber; plant physiology; biomass; biofuels; resins.

M.D. Curt, Universidad Politécnica de Madrid (UPM), Madrid, Spain
Crops for biomass and biofuels; agronomy; improvement and processing

D.A. Dierig, Bridgestone Americas, Inc., Eloy, Arizona, USA
Oilseeds, plant genetic resources, new industrial crop breeding.

S.Z. Erhan, U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Wyndmoor, Pennsylvania, USA
fats and oils, polymerization, chemical engineering, ink, lubricant, grease, metal working fluids, industrial uses of vegetable oils, biodiesel, bioethanol, bio oil

R.L. Evangelista, U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Peoria, Illinois, USA
Postharvest handling of crops; crop processing; oilseed processing; vegetable oil refining; plant oil characterization; seed protein characterization

M. Faisal, King Saud University, Riyadh, Saudi Arabia
in vitro morphogenesis, tissue culture and genetic transformation in plants of economic and medicinal importance; characterization of regenerated plants using molecular markers and flow cytometry and also the estimation of genetic diversity using DNA-based markers.

M. Foster, Texas A&M University, College Station, Texas, USA
the production agriculture aspects of natural rubber and oilseed crops

A. Gandini, Universidade de Aveiro, Aveiro, Portugal
Chemistry of vegetal biomass; furan and furanics

R. Gesch, U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Morris, Minnesota, USA
Agronomy of oilseed crops (e.g. influence of agronomic practices and environment on crop growth and yield, including seed oil content and composition); crop water use; photosynthesis; plant carbohydrate metabolism and usage

M. Hanna, University of Nebraska at Lincoln, Lincoln, Nebraska, USA
Extrusion; biodiesel and biopolymers

X. He, U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Albany, California, USA
Molecular biology; Protein detection methods; Food safety; Food contaminants and Protein toxins

M.A. Jackson, U.S. Department of Agriculture (USDA), Peoria, Illinois, USA
Catalytic conversion of fats and oils

D. Jasso de Rodriguez, Universidad Autónoma Agraria Antonio Narro, Saltillo, Coahuila, Mexico
medicinal and nutraceuticals; antioxidants; waxes; resins; latices; guayule and phytochemicals of the plants of the semiarid lands

S. Korkut, Duzce University, Duzce, Turkey
Fibres and fibre compounds; natural fibres-based composites; waxes; resins; gums; rubber and other polymers; composites and reconstituted products; energy and chemicals from forest biomass; non-wood forest products; adhesives for wood; bonding strength; contact angles; adhesion by chemical bonding; mechanical properties of adhesives; surface roughness/morphology; wood-based composite materials and their applications.

M-P. Laborie, Albert-Ludwigs-Universität Freiburg, Freiburg, Germany
particle boards; wood; wood adhesive; nanocellulose; cellulosic composites; adhesion; interface properties; bio-based adhesives

D. Lachenal, Grenoble INP - Pagora, St. Martin d'Hères Cedex, France
pulping; lignin; bleaching; biorefinery from lignocellulosics

L. Lazzeri, Research Institute for Industrial Crops, Bologna, Italy

Crops for soil remediation; biofumigation; oilseeds

A. Monti, University of Bologna, Bologna, Italy

biofuels; biomass; bioenergy crops

D. Pasquini, Universidade Federal de Uberlândia (UFU), Uberlandia MG, Brazil

vegetal macromolecules; cellulosic fibers; composites; nanocellulose; nanocomposites; polymers from renewable sources

R. Pavela, Crop Research Institute, Prague, Czech Republic

botanical insecticides

W.B. Phippen, Western Illinois University, Macomb, Illinois, USA

oil seed crops; plant breeding; genetics; agronomy; GC oil analysis

D. Pioch, CIRAD, Montpellier Cedex 5, France

oleaginous, oleochemistry (especially palms); extraction of active compounds, especially forest products (water and supercritical CO₂ based); biorefinery (cascade extraction of a range of useful compounds, from a single biomass, including destructuration of lignocellulose; Ultra and microfiltration for separating fractions

A. Pizzi, Université Henri Poincaré (Nancy I), Epinal Cedex 9, France

particle boards; wood; wood adhesive

Y. Popineau, Institute National de la Recherche Agronomique, Nantes, France

D.A. Ravetta, Museo Egidio Feruglio, Trelew, Chubut, Argentina

new crops; arid lands; resins; specialty oils, secondary metabolites; eco-physiology

D.T. Ray, University of Arizona, Tucson, Arizona, USA

C. Regnault-Roger, Université de Pau et des Pays de l'Adour, Pau Cedex, France

natural Insecticides; essential oils; plant chemistry

R. Roseberg, Oregon State University, Klamath Falls, Oregon, USA

soil science; agronomic aspects of crop production

H. Ruiz, Autonomous University of Coahuila, Saltillo-Coahuila, Mexico

renewable energy, specifically in biorefinery process and bioethanol production of second generation using lignocellulosic materials (agricultural residuos), hydrothermal process (autohydrolysis), simultaneous saccharification and bioethanol fermentation and modeling of enzymatic hydrolysis.

A.J.D. Silvestre, Universidade de Aveiro, Aveiro, Portugal

extractives; GC-MS

D. Turley, National Non-Food Crops Centre, York, England, UK

non food crops in general; economic aspects; processing; rural strategies; agronomy of non-food crops; biofuels and bioenergy applications; bio-based materials

P. Velmurugan, Chonbuk National University, Jeonbuk, The Republic of Korea

G. Wang, University of Arizona, Maricopa, Arizona, USA

crop production, nutrient management, crop rotation, and tillage management.

J Xiao, Macau University of Science and Technology, Taipa, Macau, China

Medicinal plants, polyphenols, flavonoids, natural products, bioactivity, antioxidants

GUIDE FOR AUTHORS

INTRODUCTION

Industrial Crops and Products, an International Journal, publishes papers reporting the results of original research, short communications and critical reviews on all aspects of industrial crops and products (defined as non-food/non-feed uses of plants and plant products). This covers a wide range of aspects of cultivation, crop improvement, crop compounds, processing, and integrated chain control, all focusing on the exploitation of agricultural crops for industrial use.

The scope of the journal covers a vast range of crops and research disciplines. Crops should contain significant renewable resources such as:

- Fibres and fibre compounds
- Carbohydrates
- Oils and fatty acids
- Waxes, resins, gums, rubber, and other polymers
- Proteins
- Essential oils for ink, lubricants, plastics, cosmetics
- Biologically active compounds for pharmaceutical, herbicides and insecticides, and preservatives.

Some examples of industrial (non-food/non-feed uses) crops are agave, cassava, crambe, cuphea, elephant grass, fibre hemp, flax, guar, guayule, jojoba, kenaf, lesquerella, maize, meadowfoam, oil palm, peas, plantago, potato, pyrethrum, rape seed, safflower, soybean, Stokes aster, sugar beet, sunflower, vernonia, and wheat.

Papers within the above indicated frame-work will be accepted if they cover or integrate research on:

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- Breeding, genetics, and biotechnology
- Post-harvest treatment and storage
- (Bio)process technology
- (Bio)chemistry
- Product testing, development, and marketing
- Economics, and systems analysis and optimization

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State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.

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Results should be clear and concise.

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This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

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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.

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Acknowledgements

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Present simple formulae in the line of normal text where possible. In principle, variables are to be presented in italics.

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Cancer Research UK, 1975. Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/> (accessed 13.03.03).

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