



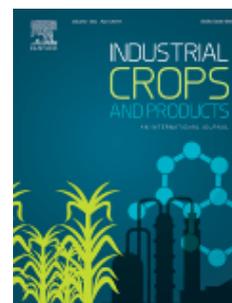
INDUSTRIAL CROPS AND PRODUCTS

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.6



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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. 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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lignin; surface modification; composites; starch and cellulose nanoparticles; self assembly

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Nanocellulose; surface treatment of lignocellulosics; fibres functionalisation; smart fibre-based packagings

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biorefinery processes; pulp and paper; lignin; process simulation/optimization

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Agronomics; biodiesel; biofuel; new industrial crops; oil seed crops; plant breeding; plant genetics; plant genomics; plant genetic resources; plant physiology (abiotic stress); natural rubber; natural rubber plants.

M. Acaroğlu, Selçuk University, Konya, Turkey

Energy Engineering; Mechanical Engineering; Automotive Engineering

A.A. Aires

Plant composition; Secondary metabolites; Polyphenols; Glucosinolates; Crop wastes; Agro-food valorization; Antioxidant activities; Antimicrobial properties; Extraction and purification; HPLC

E. Alexopoulou, Center for Renewable Energy Sources and Saving-CRES, Athens, Greece
Non-Food Crops

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Green chemistry; Cleaner production; Food chemistry; Food processing; Wastes minimization; Food biochemistry

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Aromatic plants; Medicinal plants; Essential oils; Natural products; Antioxidant activity; Bioactivity

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Genetics; Plant breeding; Oil crops; Medicinal plants; Essential oil

A. Ashori, Iranian Research Organization for Science and Technology (IROST), Tehran, Iran
Non-wood fibers; pulp and paper technology; wood-plastic composite; wood cement bonded composite; fibres

T. Baj, Medical University of Lublin, Lublin, Poland
Essential oils; Medicinal plants; Extraction methods; Statistical optimization methods; Industrial pharmacy

R. Balti, University of Jendouba, Beja, Tunisia
Biological Function Engineering; Enzyme engineering; Biorefinery; Bioactive compounds from natural resources; Functional polymers from renewable resources; Natural antioxidants; Phytochemicals and phytopharmaceuticals; Nutraceuticals and functional foods, Protein preparations and biopeptides; Seafood processing and utilization of processing by-products; Biopolymers; Membrane technology for separation of biomolecules; Biodegradable packaging films; Innovations in Food Packaging; Food processing; Preparation of value-added products

A Biswas, USDA/ARS/NCAUR, Peoria, Illinois, USA

J-F. Bloch, Grenoble INP - Pagora, St. Martin d'Hères Cedex, France
Mechanics of fibres and fibermats; structure; simulation; heat and mass transfer; optics

S. Boufi, University of Sfax, Sfax, Tunisia
Natural fibres based composites; nanocomposite based on nanosized cellulose filler; surface modification of cellulose fibres

A.A. Carbonell-Barrachina, Universidad Miguel Hernández (UMH), Orihuela, Alicante, Spain
Farming practices; Herbs and essential oils; Medicinal plants; Antioxidant activity; Antifungal activity; Isolation of natural plant compounds with industrial interest

A.J.F. Carvalho, Universidade de São Paulo (USP), São Carlos -SP-, Brazil
Starch; thermoplastic starch; polymers and monomers from renewable resources; cellulose fibers and nanofibers

E. Castro Galiano, Universidad de Jaén, Jaén, Spain
Conversion of biomass into biofuels and other added-value products; Techno-economic and environmental issues related to the development of the biorefinery concept

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

R. Chhabra, Indian institute of technology (IIT) Ropar, Punjab, 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

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

S.L. Cosentino, Università degli Studi di Catania, Catania, Italy
Agronomy; Field crops; Biomass crops; Lignocellulosic crops; Agrometeorology; Crop Physiology; Water use efficiency; Soil erosion; Leaf gas exchange; Models

V.M.V. Cruz, Bridgestone Americas, Inc., Eloy, Arizona, USA
Crop breeding and genetics; Plant genetic resources conservation and management; Oilseed crops; New industrial crops

A. Cruz-Hernández, Universidad De La Salle Bajío, León, Mexico
Genomics; Molecular biology; Plant biotechnology; Proteomics; Secondary Metabolites; Tissue culture

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.

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

Plant Biotechnology; in vitro morphogenesis, tissue culture, micropropagation, germplasm conservation, genetic transformation, molecular markers and environmental phytotoxicity of nanoparticles and bisphenols.

I.C.F.R Ferreira, Instituto Politécnico de Bragança (IPB), Bragança, Portugal

Food Chemistry; Natural Products; Nutraceuticals; Functional Foods; Natural ingredients/additives

E.J. Foster, Virginia Tech, Blacksburg, Virginia, USA

Cellulose nanomaterials; Nanocomposites; Polymers; Characterization; Byproducts; Nanocellulose; Supramolecular; Unctional; Implantable materials; Biomaterials

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

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

H. Kaddami, Université Cadi Ayyad

Composites; Aerogels; Nanocelluloses; Polymers and Biopolymers; Synthesis; Properties; Interfaces; Chemical modifications of fibers; Applications

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

M.D. López Belchí, Universidad de Concepción-Chile, Campus Chillán, Chile

Natural Products from Plants; Analytical Techniques; Antioxidants; Enzymatic Assays; Encapsulation and Ingredients

B.M. Mvumi, University of Zimbabwe, Harare, Zimbabwe

Biologically active compounds for pesticides; Postharvest treatment and storage; Product testing and development

M.J. Pascual-Villalobos, Instituto Murciano de Investigación y Desarrollo Agrario y Alimentario, La Alberca, Murcia, Spain

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, Ruzyně, Czech Republic

botanical insecticides; plant extracts; essential oils; insecticidal activity; repellency

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

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

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.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

J.L. Ren, South China University of Technology, Guangzhou, China

Lignocellulosic agricultural crop; Pretreatment; Cellulose; Hemicellulose; Lignin; Conversion; Biofuels; Chemicals; Biomaterials

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 residues); Hydrothermal process (autohydrolysis); Simultaneous saccharification; Bioethanol fermentation and modeling of enzymatic hydrolysis

A.J.D. Silvestre, Universidade de Aveiro, Aveiro, Portugal
extractives; GC-MS

P.C. Stevenson, University of Greenwich, Chatham, UK
Natural Products Chemistry; Bioactive compounds from plants; Botanical Insecticides; Chemical Ecology; Pollination Biology

V.K. Thakur, Cranfield University, Cranfield, England, UK
Bio-Renewable Materials; Cellulose Fibres; Bio-Resins; Lignin; Membrane; Agricultural biomass; Hydrogels; Polymer Composites; Nanocomposites; Green Synthesis of Nanomaterials

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

E.A. Turumtay, Recep Tayyip Erdoğan University, Rize, Turkey
Modern Liquid Chromatography Techniques; Chromatographic Analysis of Plant Based Natural Products; Phenolic Profiling; Spectroscopic Assays for Antioxidant Properties of Plant Extracts; Traditional and Modern Extraction Techniques for Bio-active compounds from Medicinal Plants; Determination of Anticancer Activities of The Natural Compounds on some Cancer Cell lines and animal models

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

J.J. Villaverde, Instituto Nacional de Investigación Agropecuaria (INIA), Madrid, Spain
Pesticides; Environmental Technology; Biorefineries; Analytical methods; Biomimetic processes; Catalytic processes; Informatics; Computational quantum chemistry; Quantitative structure-activity relationships; Statistical modeling

M. Viuda-Martos, Universidad Miguel Hernández (UMH), Orihuela, Alicante, Spain
Coproducts; Fibre; Antioxidant; Antibacterial; Foods

G. Wang, University of Arizona, Maricopa, Arizona, USA
crop production, nutrient management, crop rotation, and tillage management.

X. Wang, South China University of Technology, Guangzhou, China
Biomass-based Materials; Cellulose; Hemicellulose; Chitosan; Fiber; Hydrogel; Film; Aerogel; Paper

J. B. Xiao, University of Macau, Taipa, Macau, China
Medicinal plants, polyphenols, flavonoids, natural products, bioactivity, antioxidants Food Nutrition Food Chemistry

C.L. Xu, Åbo Akademi University, Turku, Finland
Plant cell wall Polysaccharides; Biomass processing and fractionation; Carbohydrate chemistry; Wood chemistry; Cellulose; Biobased, biopolymer; Biorefinery

F. Zanetti, Università di Bologna, Bologna, Italy
Oilseed crops; Lignocellulosic crops; Biobased uses; Crop physiology; Abiotic stresses; Natural rubber

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:

- Agronomic production and modelling
- 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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4. Book Reviews

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Introduction

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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