



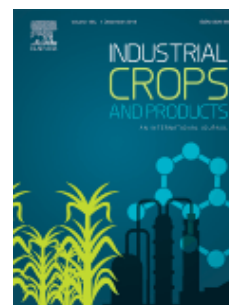
INDUSTRIAL CROPS AND PRODUCTS

An International Journal

AUTHOR INFORMATION PACK

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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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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

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Agronomic evaluation of industrial crops (particularly for fibre and biomass production); Management strategies to increase sustainability of agricultural systems

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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

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

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Essential oils; Medicinal plants; Extraction methods; Statistical optimization methods; Industrial pharmacy

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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

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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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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) 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

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

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Crops for biomass and biofuels; agronomy; improvement and processing

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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

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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.

I.C.F.R Ferreira, Instituto Politécnico de Bragança (IPB), Bragança, Portugal
Food Chemistry; Natural Products; Nutraceuticals; Functional Foods; Natural ingredients/additives

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

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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

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Catalytic conversion of fats and oils

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medicinal and nutraceuticals; antioxidants; waxes; resins; latices; guayule and phytochemicals of the plants of the semiarid lands

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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.

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particle boards; wood; wood adhesive; nanocellulose; cellulosic composites; adhesion; interface properties; bio-based adhesives

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pulping; lignin; bleaching; biorefinery from lignocellulosics

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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

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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

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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

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natural Insecticides; essential oils; plant chemistry

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

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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; Bioethanol fermentation and modeling of enzymatic hydrolysis

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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

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Pesticides; Environmental Technology; Biorefineries; Analytical methods; Biomimetic processes; Catalytic processes; Informatics; Computational quantum chemistry; Quantitative structure-activity relationships; Statistical modeling

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Coproducts; Fibre; Antioxidant; Antibacterial; Foods

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

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Biomass-based Materials; Cellulose; Hemicellulose; Chitosan; Fiber; Hydrogel; Film; Aerogel; Paper

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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.

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- 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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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

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