DESCRIPTION

*Food Hydrocolloids* has an open access companion Journal, *Food Hydrocolloids for Health*, devoted to hydrocolloids applied in human health and nutrition.

*Food Hydrocolloids* publishes original and innovative research concerned with the characterisation, functional properties and applications of hydrocolloid materials in food products. Hydrocolloids are defined as polysaccharides and proteins of commercial importance that are added to food products to control, for example, the stability and rheological and organoleptic properties. The key focus of the research should be on the hydrocolloid material itself and the manuscript should include a fundamental discussion of the research findings and their significance. Manuscripts that simply report data without providing a detailed interpretation of the results are unlikely to be accepted for publication in the journal.

The main areas of interest are: Chemical and physicochemical characterisation Rheological properties including viscosity, viscoelastic properties and gelation behaviour Microstructure Texture and organoleptic properties Interfacial properties including stabilisation of dispersions, emulsions and foams Interactions in mixed hydrocolloid systems including phase behaviour, complexation, conjugation Film forming properties with application to edible films, coatings and active packaging Encapsulation and controlled release of active compounds Modification of hydrocolloid functionality through chemical, biochemical and physical processes Hydrocolloids from non-traditional sources with commercial potential in foods Health aspects, particularly the role of hydrocolloids as dietary fibre

The Journal also publishes *Review articles* that provide an overview of the latest developments in topics of specific interest to researchers in this field of activity.

AUDIENCE

Food scientists and technologists, R&D managers, concerned with the application of science in the use, development and manufacture of food hydrocolloids.
ABSTRACTING AND INDEXING

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Yapeng Fang, Shanghai Jiao Tong University School of Agriculture and Biology, Shanghai, China
Emulsions, Gels, Interactions, Structures, Functions

Susana Fiszman, Institute of Agrochemistry and Food Technology Research, Department on Food Conservation and Quality, Valencia, Spain
Texture creation; Texture modification; Food sensory perception; Food ingredient’s interaction; Food oral processing

Francisco M. Goycoolea, University of Leeds School of Food Science and Nutrition, Leeds, United Kingdom
Biopolymers, polysaccharides, oral delivery, mucosal interactions, antimicrobials

Vassilis Kontogiorgos, The University of Queensland School of Agriculture and Food Sciences - St Lucia Campus, Brisbane, Australia
Isolation, characterisation, rheology, emulsions, pectin

Shingo Matsukawa, Tokyo University of Marine Science and Technology, Minato-Ku, Japan
Gels, Polysaccharides, Physico-chemical characterization, NMR, Rheology

Carmen Petkowicz, Federal University of Paraná, Department of Biochemistry and Molecular Biology, Curitiba, Brazil
Polysaccharides, Purification, Chemical characterization, Properties, Rheology

Ana Pilosof, University of Buenos Aires, Buenos Aires, Argentina
Food colloids, Emulsions, Gels, Foams, Digestion, Delivery

Juan M. Rodríguez Patino, University of Seville, Sevilla, Spain
Food emulsions and foams, Fluid-fluid interfaces, Proteins, Lipids, Polysaccharides
Emulsions, Gels, Polysaccharides, Proteins, Encapsulation, Delivery systems, Phase behavior, Food structure, Rheology

Kaoru Kohyama, National Agriculture and Food Research Organization, Tsukuba, Japan

Food Texture, Mastication, Gel, Starch

Dariusz Kowalczyk, University Of Life Sciences In Lublin, Department of Biochemistry and Food Chemistry, Lublin, Poland

Films, Coatings, Polysaccharides, Proteins, Food storage

Athina Lazaridou, Aristotle University of Thessaloniki, Department of Food Science and Technology, Thessaloniki, Greece

Structure and Physicochemical Properties of Polysaccharides, Food Calorimetry, Food Texture, Food rheology

Yoav Livney, Guangdong Technion-Israel Institute of Technology, Department of Biotechnology and Food Engineering, Shantou, China

Biopolymers, Proteins, Encapsulation, Delivery, Health

Alejandro G. Marangoni, University of Guelph, Guelph, Ontario, Canada

Food Materials Science, Food Chemistry, Food Physics, Sustainability

Martin Masuelli, National University of San Luis, Institute of Applied Physics, San Luis, Argentina

Biopolymers, Films, Membranes, Biopackaging, Polysaccharides

Jacques Mazoyer, Cargill France Baupte, Baupte, France

Hydrocolloids-Industry-Sourcing-Extraction/Purification-Functions

David Julian McClements, University of Massachusetts Amherst, Department of Food Science, Amherst, Massachusetts, United States of America

Nanoemulsion, delivery systems, digestion, proteins, polysaccharides, Plant-based foods

Gordon Morris, University of Huddersfield, Department of Chemical Sciences, Huddersfield, United Kingdom

Mucoadhesion chitosan polysaccharides pectin molecular weight

Taco Nicolaï, University of Le Mans, Le Mans, France

Aggregation, gelation, proteins/polysaccharides/ mixtures

Elena Poverenov, Agricultural Research Organization Volcani Center, Bet Dagan, Israel

Biopolymers, Polysaccharides, Nanotechnology, Delivery systems, Gels

Marguerite Rinaudo, University Grenoble Alpes, St Martin d'Heres, France

Polysaccharides, polyelectrolytes, rheology, biomaterials, Structure-peoperties relationship

Anwesha Sarkar, University of Leeds School of Food Science and Nutrition, Leeds, United Kingdom

Emulsions, Colloids, Surfaces, Tribology, Oral Processing, Digestion, Controlled Release

Christophe Schmitt, Nestle Research & Development, Lausanne, Switzerland

Protein, aggregation, coacervation, functionality, nutrition

Elke Scholten, Wageningen University & Research Physics and Physical Chemistry of Foods, Wageningen, Netherlands

Texture, Oil structuring, Tribology, Food structuring, Food physics, Emulsions, Gels, Multi-component systems

Felix Sedlmeyer, University of Applied Sciences Niederrhein, Department of Oecotrophology, Mönchengladbach, Germany

Dairy science, food processing, measurement devices development, rheology, functional food compound systems

Maria Semenova, FSBSI Institute of Biochemical Physics named after N M Emanuel of the Russian Academy of Sciences, Moskva, Russian Federation

Proteins, polysaccharides, nutraceuticals, functionality, delivery systems

Harjinder Singh, Riddet Institute, Palmerston North, New Zealand

Milk proteins processing and functionality, Food emulsions and colloids, Food structure and gastrointestinal digestion, Encapsulation systems for delivery of bioactive compounds in foods, Proteins – polysaccharide interactions

Chuan-He Tang, South China University of Technology School of Food Science and Engineering, Guangzhou, China

Food proteins, emulsions, functional properties, nanoencapsulation, bioaccessibility

Alberto Tecante, National Autonomous University of Mexico, Ciudad de México, Mexico

Polysaccharides, Proteins, Disperse systems, Rheology, Texture

Sylvie Turgeon, Laval University, Faculty of Agriculture and Food Sciences, Laval, Quebec, Canada

Polysaccharide, protein, functionality, food formulation, bioaccessibility

Todor Vasiljevic, Victoria University College of Health & Biomedicine, St Albans, Australia

Manuel Vazquez, University of Santiago de Compostela, Santiago de Compostela, Spain

Food Biotechnology, Microbial cellulose, Transglutaminase, High pressure processing, Films

Yifen Wang, Auburn University, Auburn, Alabama, United States of America

Encapsulation, Controlled release, Active film, Biodegradable film, Fish gelatin

Louise Wicker, Louisiana State University School of Nutrition and Food Sciences, Baton Rouge, Louisiana, United States of America
Pectin, Functionality, Protein, Pectinmethyltransferase

Peter Wilde, Quadram Institute Bioscience, Norwich, United Kingdom

Martin Williams, Massey University, Palmerston North, New Zealand

Madhav P. Yadav, USDA-ARS Eastern Regional Research Center, Wyndmoor, Pennsylvania, United States of America

Carbohydrate, Polysaccharides, Arabinoxylan, Dietary fiber

Aiqian Ye, Massey University, Palmerston North, New Zealand

Dairy chemistry, Food colloids, Food digestion, Food structure, Food emulsions

Niall Young, IFF Nutrition & Biosciences Brabrand, Brabrand, Denmark

Rheology, Hydrocolloids, Thickeners, Emulsifiers, Proteins

Hongbin Zhang, Shanghai Jiao Tong University, Shanghai, China

Polysaccharide, rheology, hydrogel, solution, emulsification
GUIDE FOR AUTHORS

INTRODUCTION

*Food Hydrocolloids* only publishes original and novel research that is of high scientific quality. Research areas include basic and applied aspects of the characteristics, properties, functionality and use of macromolecules in food systems. Hydrocolloids in this context include polysaccharides, modified polysaccharides and proteins acting alone, or in mixture with other food components, as thickening agents, gelling agents, film formers or surface-active agents. Included within the scope of the journal are studies of real and model food colloids - dispersions, emulsions and foams - and the associated physicochemical stability phenomena - creaming, sedimentation, flocculation and coalescence.

In particular, *Food Hydrocolloids* covers: the full scope of hydrocolloid behaviour, including isolation procedures, chemical and physicochemical characterization, through to end use and analysis in finished food products; structural characterization of established food hydrocolloids and new ones ultimately seeking food approval; gelling mechanisms, syneresis and polymer synergism in the gelation process; rheological investigations where these can be correlated with hydrocolloids functionality, colloid stability or organoleptic properties; theoretical, computational or simulation approaches to the study of colloidal stability, provided that they have a clear relationship to food systems; surface properties of adsorbed films, and their relationship to foaming and emulsifying behaviour; phase behaviour of low-molecular-weight surfactants or soluble polymers, and their relationship to food colloid stability; droplet and bubble growth, bubble nucleation, thin-film drainage and rupture processes; fat and water crystallization and the influence of hydrocolloids on these phenomena, with respect to stability and texture; direct applications of hydrocolloids in finished food products in all branches of the food industry, including their interactions with other food components; and toxicological, physiological and metabolic studies of hydrocolloids.

**Types of paper**

Research papers (Regular papers) Review papers Short communications Book reviews

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**Short Communications** are concise but complete descriptions of a limited investigation, which will not be included in a later paper. Short Communications should be as completely documented, both by reference to literature, and description of the experimental procedures employed, as a regular paper. They should not occupy more than 4 printed pages (about 8 manuscript pages, including figures, tables and references).

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3. "The study was explained to consumers in the online questionnaire. They were informed that they would participate in the survey using their personal smartphone, that all data will be de-identified and only reported in the aggregate. All participants acknowledged an informed consent statement in order to participate in the study. They were financially compensated for their participation in the amount of XX"

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