



# COLLOIDS AND SURFACES B: BIOINTERFACES

An International Journal Devoted to Fundamental and Applied Research on Colloid and Interfacial Phenomena in Relation to Systems of Biological Origin

## AUTHOR INFORMATION PACK

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### DESCRIPTION

*Colloids and Surfaces B: Biointerfaces* is an international journal devoted to fundamental and applied research on colloid and interfacial phenomena in relation to systems of biological origin, having particular relevance to the medical, pharmaceutical, biotechnological, food and cosmetic fields.

Each Editor of *Colloids and Surfaces B* has specific fields of expertise. To ensure a smooth and rapid refereeing process, please submit your article to the Editor related to the topic of your research (you can select the correct editor in the drop down menu in our online submission system: <http://ees.elsevier.com/colsub>):

#### John Brash

- Interactions of biomolecules (proteins, enzymes, peptides, polysaccharides, DNA) at the solid-solution and air-solution interfaces;
- Surface/interfacial interactions of tissue and blood; Biomaterials development and interfacial properties;
- Drug delivery/controlled release

#### Henk Busscher

- Physico-chemical mechanisms of microbial adhesion, biofilm formation and tissue cell interaction to surfaces
- Microbial adhesion and biofilm formation
- Role of surface characteristics, surface modification and protein adsorption on microbial adhesion and biofilm formation
- Physico-chemical mechanisms providing biolubrication to surfaces

#### Dganit Danino

- Self-assembly and molecular assemblies (proteins, polymers, peptides, surfactants)
- Structure of biological fluids
- Drug delivery vehicles at nano and meso scales
- 1D structures - fibrils, ribbons, nanotubes
- Milk proteins

#### Deborah Leckband

- Blood, proteins, and cells
- Surface modification
- Protein-surface interactions

- Self-assembly, Lipid bilayers
- Tissue cell interactions

### **Xinyuan Zhu**

- Surface modification including structured surfaces;
- Biocompatible materials;
- Anti-fouling materials;
- Bio-detection/bio-imaging materials;
- Interactions of biomolecules and cells at interfaces.

Submissions that: (1) deal solely with biological phenomena and do not describe the physico-chemical or colloid-chemical background and/or mechanism of the phenomena, and (2) deal solely with colloid/interfacial phenomena and do not have appropriate biological content or relevance, are outside the scope of the journal and will not be considered for publication.

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## **AUDIENCE**

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Colloid and Surface Chemists, Chemical Engineers, (Bio) Pharmaceutical, Cosmetic and Food Chemists, Physical Chemists, Polymer Chemists, Biological and Bioengineers, Organic Chemists, Microbiologists, Medicinal Chemists.

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### INTRODUCTION

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R.D. Thomas, in E. Buncl and J.R. Jones (Eds.), *Isotopes in the Physical and Biomedical Sciences*, Vol. 2, Elsevier, Amsterdam, 1991, Chapter 7.

For conference proceedings, symposia etc.

A.G. Marshall, in P.G. Kistemaker and N.M.M. Nibbering (Eds.), *Advances in Mass Spectrometry*, Proc. 12th International Mass Spectrometry Conference, Amsterdam, 26-30 August 1991, Elsevier, Amsterdam, 1992, p. 37.

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