



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.

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.

The journal publishes regular research papers, reviews, short communications and invited perspective articles, called BioInterface Perspectives. The BioInterface Perspective provide researchers the opportunity to review their own work, as well as provide insight into the work of others that inspired and influenced the author. Regular articles should have a maximum total length of 6,000 words. In addition, a (combined) maximum of 8 normal-sized figures and/or tables is allowed (so for instance 3 tables and 5 figures). For multiple-panel figures each set of two panels equates to one figure. Short communications should not exceed half of the above. It is required to give on the article cover page a short statistical summary of the article listing the total number of words and tables/figures.

AUDIENCE

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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H.J. Busscher, Rijksuniversiteit Groningen, Groningen, Netherlands

Research interests: •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

D. Danino, Technion - Israel Institute of Technology, Haifa, Israel

Research interests: •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

D.E. Leckband, University of Illinois at Urbana-Champaign, Urbana, Illinois, USA

Research interests: •Blood, proteins, and cells •Surface modification •Protein-surface interactions •Self-assembly, Lipid bilayers •Tissue cell interactions

A. Panitch, University of California, Davis, Davis, USA

X. Zhu, Shanghai Jiao Tong University, Shanghai, China

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

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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>):

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- Interactions of biomolecules (proteins, enzymes, peptides, polysaccharides, DNA) at the solid-solution and air-solution interfaces;
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- 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

Hong Chen

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

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

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