

# Curriculum vitae

## **Assist. Prof. Duško Čakara**

(Born February 25, 1972, in Zagreb, Croatia)

### **Present position**

Assistant professor (in the process of election) at the Department of Biotechnology at the University of Rijeka. Head of Laboratory for Colloids, Polyelectrolytes and Surfaces within the Centre for Micro and Nano Sciences and Technologies.

### **Past experience**

2004-2008: Postdoc France and Germany, visiting scientist in Austria and Slovenia. Actively participated in projects related to the charge-structure relationships in nano-scaled systems, organic electronics and experimental method development.

### **Relevant experience**

Method development for studying charging properties in colloidal suspensions, macromolecules, composite nanoparticles and biopolymers; development of polyaniline-based microelectrodes, light and neutron scattering techniques.

### **Membership of national and international organizations**

Member of the International Association of Colloid and Interface Scientists (since 2007) and the European Colloid and Interface Society (since 2007).

### **Awards**

Winner of the Swiss National Science Foundation's Fellowship for Prospective Researchers (2004). University of Zagreb Rector's Award for the best student research paper (1997).

### **List of five chosen recent publications**

1. Čakara D.; Kleimann J.; Borkovec M. (2003): Microscopic Protonation Equilibria of Poly(amidoamine) Dendrimers from Macroscopic Titrations, *Macromolecules* **36** 4201-4207.
2. Kobayashi M.; Skarba M.; Galletto P.; Čakara D.; Borkovec M. (2005): Effects of Heat Treatment on the Aggregation and Charging of Stöber-type Silica, *J. Coll. Intf. Sci.* **292** 148-151.
3. Slim C.; Ktari N.; Čakara D.; Kanoufi F.; Combellas C. (2008): Polyaniline Film Based Ultramicroelectrodes Sensitive to pH, *J. Electroan. Chem.* **612** 53-62.
4. Čakara D.; Kobayashi M.; Skarba M.; Borkovec M. (2009): Protonation of Silica Particles in the Presence of a Strong Cationic Polyelectrolyte, *Coll. Surf.* **A339** 20-25.
5. Čakara D.; Fras L.; Bračić M.; Stana-Kleinschek K. (2009): Protonation behavior of cotton fabric with irreversibly adsorbed chitosan: A potentiometric titration study, *Carbohydr. Polym.* **78** 36-40.