

Curriculum vitae

Lucia Uhelská, PhD



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Nationality: Slovak

Work experience

research scientist
since 1.4.2013
Polymer Institute of the Slovak Academy of Sciences

postdoc
1.1.2012 – 28.2.2013
École Polytechnique Fédérale de Lausanne (Switzerland)

research scientist
1.7.2010 – 31.12.2012
Polymer Institute of the Slovak Academy of Sciences

Work expertise

macromolecular chemistry, biopolymers, alginate microcapsules and microspheres preparation and characterization, size exclusion chromatography, kinetics of radical polymerization, pulsed-laser polymerizations and determination of propagation rate coefficients, characterization of polymers, analytical methods, and surface modification of nanoparticles

Outputs

5 publications and 9 conference participation (see appendix)

Education

PhD. in Macromolecular Chemistry
Polymer Institute of the Slovak Academy of Sciences
Department of Biomaterials Research
Dúbravská cesta 9, 845 41 Bratislava
Slovak Republic

Dissertation thesis Propagation kinetics of free radical polymerization in aqueous phase
Graduation date 3.6.2010

Ing. (equivalent to MSc.)
Slovak University of Technology
Faculty of Chemical and Food Technology
Institute of Polymer Materials
Department of Chemical Technology of Wood, Pulp and Paper
Radlinského 9, 812 37 Bratislava 1
Slovak Republic

Diploma thesis Effects of atmospheric plasma on films based on aqueous dispersion of thermoplastics

Graduation date 26. 6.2006

BSc.
Slovak University of Technology
Faculty of Chemical and Food Technology
Institute of Physical Chemistry and Chemical Physics
Department of Physical Chemistry
Radlinského 9, 812 37 Bratislava 1
Slovak Republic

Diploma thesis

Stability of interior coatings in cars
Volkswagen Bratislava, a.s., Quality testing laboratory

Defense date

12.6.2004

Computer skills

Microsoft Word, Excel, PowerPoint, Origin, Internet, Outlook

Driving license

B

Languages

Slovak, Czech, English, Hungarian

Other information

19.1-19.2.2008 Internship in Italy, Plastlab, within the ESF project
14.06.1999 State language exam in English

Skills

team working, flexibility, creativity, responsibility, willingness to learn

Hobbies

soaring, hiking

Appendix

publications:

UHELSKÁ L., CHORVÁT D., HUTCHINSON R.A., SANTANAKRISHNAN S., BUBACK M., LACÍK I. Radical propagation kinetics of N-vinylpyrrolidone in organic solvents studied by PLP-SEC. *Macromol Chem Phys* Submitted June 2014

LACÍK I., STACH M., KASÁK P., SEMAK V., **UHELSKÁ L.**, CHOVANCOVÁ A., REINHOLD G., KILZ P., DELAITTRE G., CHARLEUX B., CHADUC I., DAGOSTO F., LANSALOT M., FAVORIEAU M., CASTIGNOLLES P., GILBERT R.G., SZABLAN Z., BARNER-KOWOLIK C., HESSE P., BUBACK M. *Macromol Chem Phys*. Submitted June 2014

Passemard S., Staedler D., **Učňová L.**, Schneiter G.S., Kong P., Bonacina L., Juillerat-Jeanneret L., Gerber-Lemaire S. “Convenient synthesis of heterobifunctional poly(ethylene glycol) suitable for the functionalization of iron oxide nanoparticles for biomedical applications” *Bioorganic and Medicinal Chemistry Letters* **2013**, 23 (17), 5006–5010

Lacík I., **Učňová L.**, Kukučková S., Buback M., Hesse P., Beuermann S. „Propagation Rate Coefficient of Free-Radical Polymerization of Partially and Fully Ionized Methacrylic Acid in Aqueous Solution“ *Macromolecules* **2009**, 42 (20), 7753–7761

Santanakrishnan S., Hutchinson R. A., **Učňová L.**, Stach M., Lacík I., Buback M. “Polymerization Kinetics of Water-Soluble N-Vinyl Monomers in Aqueous and Organic Solution” *Macromol Symp* **2011**, 302, 216–223

Citations:

- **LACIK I, UCNOVA L, KUKUCKOVA S , BUBACK M , HESSE P, BEUERMANN S : Propagation Rate Coefficient of Free-Radical Polymerization of Partially and Fully Ionized Methacrylic Acid in Aqueous Solution MACROMOLECULES Volume: 42 Issue: 20 Pages: 7753-7761 2009**
 1. Preusser, C., Hutchinson, R.A.(2013) *Macromolecular Symposia*, 333 (1), pp. 122-137.
 2. Vale, H., Daiss, A., Naeem, O., Šeda, L., Becker, K., Hungenberg, K.-D. (2013) *Macromolecular Symposia*, 333 (1), pp. 286-296.
 3. Chaduc, I., Crepet, A., Boyron, O., Charleux, B., D'Agosto, F., Lansalot, M.(2013) *Macromolecules*, 46 (15), pp. 6013-6023.
 4. Chaduc, I., Lansalot, M., D'Agosto, F., Charleux, B.(2012) *Macromolecules*, 45 (3), pp. 1241-1247.
 5. Gonçalves, M.A.D., Pinto, V.D., Dias, R.C.S., Costa, M.R.P.F.N.(2011) *Macromolecular Symposia*, 306-307 (1), pp. 107-125.
 6. Fleischmann, S., Percec, V.(2010) *Journal of Polymer Science, Part A: Polymer Chemistry*, 48 (21), pp. 4884-4888.
 7. Valdebenito, A., Encinas, M.V.(2010) *Polymer International*, 59 (9), pp. 1246-1251.
 8. Neuhaus, S., Padeste, C., Solak, H.H., Spencer, N.D.(2010) *Polymer*, 51 (18), pp. 4037-4043.
- **PASSEMARD S, STAEDLER D, UCNOVA L, SCHNEITER GS, KONG P, BONACINA L, JUILLERAT-JEANNERET L, GERBER-LEMAIRE S: Convenient synthesis of heterobifunctional poly(ethylene glycol) suitable for the functionalization of iron oxide nanoparticles for biomedical applications BIOORGANIC AND MEDICINAL CHEMISTRY LETTERS Volume: 23 Issue: 17 Pages: 5006-5010 2013**
 1. Kang, X., Qiao, R., Liang, S., Wu, K., Liu, X., Yin, H., Gao, M., Wei, G. (2014) *Chinese Journal of Radiology (China)*, 48 (5), pp. 369-374.

Conferences and presentations:

Učňová L., Chorvát D. Jr., Stach M., Lacík I. „Propagation rate constants for the aqueous phase polymerization of ionized methacrylic acid determined by PLP-SEC technique” BYPoS Smolenice, Slovakia, 20-23.08. 2007, presentation Učňová L.

Učňová L., Chorvát D. Jr., Lacík I. “Effect of counterion size on propagation rate for the aqueous phase polymerization of ionized methacrylic acid determined by PLP-SEC technique” High Tatras, Congress of Slovak and Czech Chemists, 2.9. – 5.9. 2007, ChemZi 1/3, 211 (2007), poster

Učňová L., Chorvát D. Jr., Stach M., Lacík I. “Influence of monomer concentration, temperature and ionization on the free radical propagation rate coefficients of methacrylic acid polymerized in aqueous phase”, Olomouc, Congress of Slovak and Czech Chemists, 1.9. – 4.9. 2008, *Chemical Papers* 102(8), 743 (2008), poster

Učňová L., Lacík I., Chorvát D. Jr., Stach M. „Free radical propagation rate coefficients of ionized methacrylic acid polymerized in aqueous solution and neutralized with different agents determined by PLP–SEC technique.”, V. Slovak and Czech conference, Polymers 2008, Stará Lesná, 28.9.-1.10.2008, Book of Abstracts P32, ISBN 978-80-968433-5-0, poster

Učňová L., Lacík I., Chorvát D. Jr. „Determination of propagation rate coefficients by PLP-SEC method for water soluble monomers in aqueous and non-aqueous solutions”, 2nd Bratislava Young Polymer Scientists workshop BYPOS, 2.-6.2.2009, Krompachy, Workshop Book ISBN 978-80-968433-6-7, EAN 9788096843367, p. 37, presentation Učňová L.

Učňová L., Chorvát D. Jr., Lacík I. „Free radical polymerization of water-soluble monomers with different chemical behavior in non-aqueous phase by PLP–SEC method”, 61. Congress of Slovak and Czech Chemists, 7.-11.9.2009, High Tatras, ChemZi 5/9, 202 (2009), poster

Učňová L., Lacík I., Chorvát D. Jr. “Propagation kinetics for free radical polymerization of *N*-vinyl pyrrolidone in aqueous and organic solutions” Polymery 2010, 4 – 7.10. 2010 Liblice, Workshop Book ISBN 978-80-85009-64-4, p. 41, presentation Učňová L.

Učňová L., Stach M., Kasák P., Hipká E., Lacík I. “Determination of k_p for acrylamide aqueous solution polymerization: preliminary PLP–SEC studies“ 2011, BASF SE Ludwigshafen, Germany presentation Učňová L.

Učňová L., Lacík I., Buback M., Hesse P., Beuermann S., Stach M., Chorvát D. Jr. “Determination of propagation rate coefficients for free radical polymerization of partially and fully ionized methacrylic acid in aqueous solution” Polymers on the Odra river 2011, 06-07.07.2011, Opole, Poland, poster

Učňová L., Lacík I., Stach M., Chorvát D. Jr. “Determination of propagation rate coefficient for methacrylic acid polymerized in ionic liquid“ International summer school on polymers, 22-26.08.2011, Smolenice, Workshop Book ISBN 978-80-968433-9-8, EAN 9788096843398, p. 113, poster

Učňová L., Kasák P., Lacík I., Hipká E., Ďurišová A. “Determination of k_p for acrylamide aqueous solution polymerization: updated PLP–SEC studies“ 2011, BASF SE Ludwigshafen, Germany Presentation Učňová L.

Uhelská L., Kasák P., Semak V., Hloušková G., Chorvát D., Treľová D., Rázga F., Némethová V., Kroneková Z., Kronek J., Lacík I. „Zwitterionic polymers applied toward enhanced biotolerability of microcapsules used for immunoprotection of encapsulated cells“ BYPOS Zázrivá, Slovakia, 16-20.06. 2014, presentation Uhelská L.