DANIEL GROMADZKI

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Experienced Researcher, EU-Project POLINNOVA,
Institute of Polymers, Bulgarian Academy of Sciences,
Sofia 1113, Bulgaria
Date of Birth: 20.11.1978
Nationality: Polish

Education & Training:

PhD. in Macromolecular Chemistry from Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic/Charles University in Prague, Czech Republic (February 2010)

MSc. Chem. Eng. in Chemical Technology from Technical University of Szczecin (currently West Pomeranian University of Technology), Poland (July 2002)

Visiting MSc. student at Max-Planck Institute of Colloids and Interfaces in Potsdam (Colloid Department), Germany (6 months in 2002)

Visiting Researcher at Bayreuth University (Department of Chemical Engineering), Germany (11 months in 2003)

Visiting PhD researcher at Vilnius University (Department of Polymer Chemistry), Lithuania (Sept. 2005 – December 2007)

Post Doc at Delft University of Technology (Department of Aerospace Materials), The Netherlands (February 2010 – February 2012)

Post Doc at McGill University (Department of Chemical Engineering), Montréal, Canada (May 2012 – May 2013)

Selected Publications:

1. D. Gromadzki, P. Černoch, M. Janata, V. Kůdela, F. Nallet, O. Diat, P. Štěpánek, Morphological studies and ionic transport properties of partially sulfonated diblock copolymers, *Eur. Polym. J.*, 42 (10), 2486-2496, 2006

2. D. Gromadzki, J. Lokaj, P. Černoch, F. Nallet, O. Diat, P. Štěpánek, Morphology of polystyrene-*block*-poly(styrene-*co*-acrylonitrile) and polystyrene-*block*-poly(styrene-*co*-acrylonitrile-*co*-5-vinyltetrazole) diblock copolymers prepared by nitroxide- mediated radical polymerization and “click” chemistry, *Eur. Polym. J.*, 44 (1), 189-199, 2008

3. D. Gromadzki, R. Makuška, M. Netopilík, P. Holler, J. Lokaj, M. Janata, P. Štěpánek, Comb copolymers of polystyrene-poly(*tert*-butyl (meth)acrylate) prepared by combination of nitroxide-mediated polymerization and photoinduced iniferter technique, *Eur. Polym. J.*, 44 (1), 59-71, 2008

4. D. Gromadzki, J. Lokaj, M. Šlouf, P. Štěpánek. Dilute solutions and phase behavior of polydisperse A-b-(A-co-B) diblock copolymers, *Polymer*, 50, 2451-2459, 2009

5. D. Gromadzki, S. Filippov, M. Netopilík, R. Makuška, A. Jigounov, J. Pleštil, J. Horsky, P. Štěpánek. Combination of "living" nitroxide-mediated and photoiniferter-induced "grafting from" free-radical polymerizations: From branched copolymers to unimolecular micelles and microgels, *Eur Polym J*, 45, 1748-1758, 2009

6. D. Gromadzki, A. Jigounov, P. Štěpánek, R. Makuška. Synthesis of cylindrical molecular brushes via a combination of nitroxide-mediated radical polymerization and "grafting onto" strategy, *Eur Polym J*, 46, 804-813, 2010

7. T. Krivorotova, A. Vareikis, D. Gromadzki, M. Netopilík, R. Makuška. Conventional free-radical and RAFT copolymerization of poly(ethylene oxide) containing macromonomers, *Eur Polym J*, 46, 546-556, 2010

8. D. Gromadzki. Engineering soft nanostructured functional materials via orthogonal chemistry, *Rev Environ Sci Biotechnol*, 9 (4), 301-306, 2010

9. D. Gromadzki, A. Tereshchenko, R. Makuška. Synthesis by self-condensing AGET ATRP and solution properties of arborescent poly(sodium 2-acrylamido-2-methyl-*N*-propane sulfonate), *Polymer*, 51, 5680-5687, 2010

10. A. Jäger, D. Gromadzki, E. Jäger, A. Kozlowska, M. El Fray, L. Kobera, J. Brus, B. Rihova, K. Ulbrich, P. Štěpánek. Novel soft biodegradable nanoparticles prepared from aliphatic based monomers as a potential drug delivery system, *Soft Matter*, 8, 4343, 2012

11. D. Gromadzki, P. Štěpánek, R. Makuška. Synthesis of densely grafted copolymers with *tert*-butyl methacrylate/2-(dimethylaminoethyl) methacrylate side chains as precursors for brush polyelectrolytes and polyampholytes, *Materials Chemistry and Physics*, 137, 709-715, 2013

Scientific interests:

Polymer synthesis and modification, controlled radical polymerization, self-assembly, block copolymers, ionomers, bio-based polymers, smart polymers for biomedicine

Awards:

Marie Curie Fellowship at the Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic in Prague (6 months in 2004)

Marie Curie Fellowship at the Department of Polymer Chemistry, *Self-organization under Confinement*, EU-Project SOCON, Vilnius University (Sept. 2005 – Dec. 2007)

Marie Curie Fellowship within Industry-Academia Partnerships and Pathways, Polymerics GmbH, Berlin (6 months in 2009)

IUPAC Young Chemistry Scientist Award (2011)