
NEW MEMBERS OF THE EDITORIAL BOARD



Dr Milan D. Antonijević

Faculty of Engineering and Science
School of Science
University of Greenwich at Medway

Central Avenue
Chatham Maritime, ME4 4TB
England, UK

E-mail: M.Antonijevic@gre.ac.uk
Tel: +44 (0) 02083319841

Education

2006 - 2007 PGCert in Higher Education, University of Greenwich, UK
2001 - 2005 PhD in Pharmacy, Queen's University Belfast, UK
1992 - 1997 BSc in Chemistry, University of Belgrade, Serbia

Employment history

2006-present Lecturer, Senior Lecturer and currently Principal Lecturer in Pharmaceutical Analysis, Faculty of Engineering and Sciences, School of Science, University of Greenwich, UK.
2004-2006 Senior Demonstrator, School of Chemical Sciences and Pharmacy, University of East Anglia, UK.
1997-2001 Analyst in Quality Control Department in "HEMOFARM", RS.

Research interests

Current research focuses on the use and development of thermal analytical techniques. An example is thermally stimulated current spectroscopy (TSC) for the characterisation and design of drugs and drug delivery systems. These include amorphous and polymorphic drugs and mainly polymeric delivery systems. In respect of glass-forming materials, interest lies in understanding the cooperative rearrangements within the system. These can be studied by assessing the distribution of the relaxation process, using relaxation map analysis. In addition, thermal analytical methods have been used to investigate correlation between empirical parameters of the glass-forming systems such as the fragility index and its chemical structure. The interest in physico-chemical properties of drugs and dosage forms includes research of stability assessments and prediction. Of particular interest is exploring kinetics and degradation pathways of light-sensitive pharmaceutical compounds. Recent research has therefore investigated the problems of characterising amorphous materials and understanding stability of pharmaceutical active compounds and end products.

Research Papers

Milica M. Petrović, Ian J. Slipper, Milan D. Antonijević, Goran S. Nikolić, Jelena Z. Mitrović, Danijela V. Bojić, Aleksandar Lj. Bojić (2015) "Characterization of a Bi₂O₃ coat based anode prepared by galvanostatic electrodeposition and its use for the electrochemical degradation of Reactive Orange 4" *Journal of the Taiwan Institute of Chemical Engineers*, (doi:10.1016/j.jtice.2014.12.010)

Radović MD; Mitrović JZ; Bojić DV; Antonijević MD; Kostić MM; Baošić RM; Bojić AL (2014) "Effects of system parameters and inorganic salts on the photodecolourisation of textile dye Reactive Blue 19 by UV/H₂O₂ process" *Waters SA*, 40 (3), 1-18 (<http://dx.doi.org/10.4314/wsa.v40i3.21>)

A. Zarubica, M. Vasic, M.D. Antonijevic, M. Ranpelovic, M. Momcilovic, J. Krstic and J. Nedeljkovic (2014) "Design and photocatalytic ability of ordered mesoporous TiO₂ thin films" *Materials Research Bulletin*, 57, 146-151 (doi: 10.1016/j.materresbull.2014.03.015)

Nataša Djordjević Filijović, Milan D. Antonijević, Aleksandar Pavlović, Ivan Vučković, Katarina Nikolić, and Danica Agbaba (2014) "The stress stability of olanzapine: studies of interactions with excipients in solid state pharmaceutical formulations" *Drug Development and Industrial Pharmacy*, (doi:10.3109/03639045.2014.884114)

Milan D. Antonijević, Marija Arsović, Josef Časlavsky, Vesna Cvetković, Predrag Dabić, Mladen Franko, Gordana Ilić, Milena Ivanović, Nevena Ivanović, Milica Kosovac, Dragana Medić, Slobodan Najdanović, Milica Nikolić, Jovana Novaković, Tatjana Radovanović, Đurđina Ranić, Bojan Šajatović, Gorica Špijunović, Ivana Stankov, Jelena Tošović, Polonca Trebše, Olivera Vasiljević and Jan Schwarzbauer (2014) "Actual contamination of the Danube and Sava rivers at Belgrade (2013)" *J. Serb. Chem. Soc.* 79, 9, 1169-1184 (doi: 10.2298/JSC131105014A)

Samuel K. Owusu-Ware, Babur Z. Chowdhry, Stephen A. Leharne and Milan D. Antonijevic (2013) "Novel analytical approaches for the study of mobility and relaxation phenomena in positional isomers of GABA" *Phys. Chem. Chem. Phys.*, 15, 20046-20053 (<http://dx.doi.org/10.1039/c3cp52670d>).

Ichiona Onyesome, Dimitrios A. Lamprou, Lamprini Sygellou, Samuel K. Owusu-Ware, Milan D. Antonijevic, Babur Z. Chowdhry and Dennis Douroumis. (2013) "Sirolimus encapsulated liposomes for cancer therapy: physicochemical and mechanical characterization of sirolimus distribution within liposome bilayers", *Molecular Pharmaceutics*, 10(11), 4281-4293 (<http://dx.doi.org/10.1021/mp400362v>).

Kostić M., Radović M., J. Mitrović, Antonijević M., Bojić D., Petrović M., Bojić A. (2013) "Using xanthated *Lagenaria vulgaris* shell biosorbent for removal of Pb(II) ions from wastewater", *Journal of the Iranian Chemical Society*, (<http://dx.doi.org/10.1007/s13738-013-0326-1>).

Owusu-Ware, S., Leharne, S.A., Chowdhry, B.Z., Antonijevic, M.D. (2013) "Quantitative analysis of overlapping processes in the non-isothermal decomposition of chlorogenic acid by peak fitting" *Thermochimica Acta*, 565, 27-33, (<http://dx.doi.org/10.1016/j.tca.2013.04.029>).

Kianfar, F., Antonijevic, M., Chowdhry, B., Boateng, J. (2012) "Lyophilized wafers comprising carrageenan and pluronic acid for buccal drug delivery using model soluble and insoluble drugs", *Colloids and Surfaces B: Biointerfaces*, 103, 99-106 (<http://dx.doi.org/10.1016/j.colsurfb.2012.10.006>).

Christine B. Baltus, Neil J. Press, Milan D. Antonijevic, Graham J. Tizzard, Simon J. Coles, John Spencer (2012) "Synthesis of a biphenyl library for studies of hydrogen bonding in the solid state", *Tetrahedron*, 68, 9272-9277, (<http://dx.doi.org/10.1016/j.tet.2012.08.062>).

Milan D. Antonijević. (2012) “Applications of Thermally Stimulated Current spectroscopy in Pharmaceutical Research”. *European Pharmaceutical Review*, 3, pp. 43-46

Kianfar, F., Chowdhry, B.Z., Antonijević, M.D., Boateng, J.S. (2012) “Novel films for drug delivery via the buccal mucosa using model soluble and insoluble drugs”. *Drug Development and Industrial Pharmacy*, 38(10), 1207-20, (<http://dx.doi.org/10.3109/03639045.2011.644294>).

Kianfar, F., Chowdhry, B., Antonijević, M., Boateng, J. (2011) “Formulation development of a carrageenan based delivery system for buccal drug delivery using ibuprofen as a model drug”. *Journal of Biomaterials and Nano Biotechnology*, 2, 582-595, (<http://dx.doi.org/10.4236/jbnb.2011.225070>).

Fatouros, Dimitrios G., Power, Kieron, Kadir, Omar, Dekany, Imre, Yannopoulos, Spyros N., Bouropoulos, Nikolaos, Bakandritsos, Aristides, Antonijević, Milan D., Zouganelis, George D. And Roldo, Marta (2011) “Stabilisation of SWNTs by alkyl-sulfate chitosan derivatives of different molecular weight: towards the preparation of hybrids with anticoagulant properties”, *Nanoscale*, 3, 1218-1224, (<http://dx.doi.org/10.1039/c0nr00952k>).

Forster, Richard E. J., Small, Sharon A., Tang, Yiqing, Heaysman, Clare L., Lloyd, Andrew W., Macfarlane, Wendy, Phillips, Gary J. and Antonijević, Milan D. (2010) “Comparison of DC Bead-irinotecan and DC Bead-topotecan drug eluting beads for use in locoregional drug delivery to treat pancreatic cancer”, *Journal of Materials Science: Materials in Medicine*, 21 (9). pp. 2683-2690, (<http://dx.doi.org/10.1007/s10856-010-4107-4>).

Antonijević, M.D., Craig, D.Q.M. and Barker, S.A. (2008) “The role of space charge formation in the generation of thermally stimulated current (TSC) spectroscopy data for a model amorphous drug system”, *International Journal of Pharmaceutics*, 353: 8-14, (<http://dx.doi.org/10.1016/j.ijpharm.2007.11.004>).

Book chapters

M. Reading, M. Morton, M. Antonijević, D. Grandy, D. Hourston and A. Lacey, (2014) New Methods of Thermal Analysis and Chemical Mapping on a Micro and Nano Scale by Combining Microscopy with Image Analysis. In A. Méndez-Vilas (Ed.) *Microscopy: advances in scientific research and education – Volume 2*, 2014, Formatex Research Center; pp1083-1089, ISBN-13: 978-84-942134-4-1

Susan Barker and Milan D. Antonijević, (2011) Thermal analysis – Dielectric techniques. In Richard A. Story, Ingvar Ymen (Ed.) *Solid State Characterisations of Pharmaceuticals*, 2011, Wiley; pp 187-206, ISBN-13: 978-1-4051-3494-1

Awards

Early Career Research Excellence Award, University of Greenwich, 2010/2011

Oral Presentation won a prize for the best presentation in Drug Analysis and Quality Control section of the official programme of the 5th Congress of Pharmacists of Serbia, 2010

Poster awarded as the Best Poster of the 2010 Annual Conference EAFP

External recognition

Member of the Royal Society of Chemistry (MRSC)

Member of the Academy of Pharmaceutical Sciences (MAPS)

Fellow of the Higher Education Authority (FHEA)

Committee member of the Thermal Method Group (Royal Society of Chemistry)

Member of American Association of Pharmaceutical Scientists (AAPS), USA