CURRICULUM VITAE

PERSONAL INFORMATION

Name	**SILVIYA SIMEONOVA**
E-mail	ssimeonova@chem.uni-sofia.bg

Previous Experience

• Date	**2015 – to present**
• Organization	Sofia University, Faculty of Chemistry and Pharmacy
• Position	Research Associate in department Physical Chemistry
• Date	**2014**
• Organization	Institute of Organic Chemistry with Centre of Phytochemistry – BAS, Bulgaria
• Position	Research Fellow
• Date	**2013**
• Organization	Dental clinic
• Position	Technological Associate
• Dates	**2009 – 2012**
• Organization	Sofia University, Faculty of Chemistry and Pharmacy
• Position	PhD student in Laboratory on Structure and Properties of Polymers
• Dates	**2006 and 2008**
• Organization	Institute of Polymers – BAS, Bulgaria
• Position	Research student and Chemist

Education

• 2012	Sofia University, Faculty of Chemistry and Pharmacy – Master's Degree in the Teaching of Chemistry
• 2004 - 2006	Sofia University, Faculty of Chemistry – Master's Degree of Polymers
• 2000 - 2004	Sofia University, Faculty of Chemistry – Bachelor's Degree of Chemistry, specialty Analytical Chemistry
• 1995 - 2000	Technical School of Chemical Industry and Biotechnology, "Prof. Dr. Asen Zlatarov" Sofia; specialty Biotechnology

International Experience

Germany, Aachen, *Practical Training Course* of the "Marie Curie Actions" Programme: "Tissue engineering, stem cells and biocompatibility testing of biomaterials", August – September, 2009;
Portugal, University of Minho, Department of Polymer Engineering, 2009-2010, 6 months;
Slovenia, University of Maribor, Faculty of Chemistry and Chemical Engineering, and R. Serbia, Faculty of Technology, University of Novi Sad, *International Summer School*, Center of Applied Spectroscopy, July 2010;
Germany, Max Planck Institute for Polymer Research (MPIP) in Mainz, June 2015.

Major Fields of Scientific Research

Scientific research in area of nanomaterials, biopolymers and metals by Atomic-force microscopy. Scientific study with student and PhD student.

Professional skills in area of application of advanced methods: Atomic-force microscopy (AFM); Differential scanning calorimetry (DSC); Infrared spectroscopy Attenuated Total Reflectance (IR-ATR); Ultraviolet–visible spectroscopy (UV-VIS). Professional skills in area of polymer materials science.

Principal Publications:

1. S. Simeonova, M. Evstatiev, W. Li, T. Burkhart. **Fabrication and Characterization of Biodegradable Polymer Scaffolds Adapting Microfibrillar Composite Concept**. *Journal of Polymer Science, Part B: Polymer Physics*, 51 (17), pp.1298-1311, **2013**

2. M. Evstatiev, S. Simeonova, K. Friedrich, X.-Q. Pei, P. Formanek. **MFC structured biodegradable poly(L lactide)/poly(butylene adipate-co-terephatalate) blends with improved mechanical and barrier properties**. *Journal of Material Science,* 48 (18), pp.6312-6330, **2013**

3. B. Kostova, E. Kamenska, D. Rachev, S. Simeonova, G. Georgiev, K. Balashev. **Polyzwitterionic copolymer nanoparticles loaded in situ with metoprolol tartrate: synthesis, morphology and drug release properties**. *Journal of Polymer Research*, 2, (20), pp. 1-8, **2013**

4. A. Chanachev, S. Simeonova, P. Georgiev, K. Balashev, Tz. Ivanova, I. Panaiotov. **Monolayer kinetic model of formation of gold nanoparticles by reducing agents hexadecylaniline or bovine serum albumin**. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 508, pp. 1-7, **2016**

5. P. Georgiev, S. Simeonova, A. Chanachev, L. Mihaylov, D. Nihtianova, K. Balashev. **Acceleration effect of copper (II) ions on the rate of citrate synthesis of gold nanoparticles**. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 494, pp. 39-48, **2016**

6. K. Balashev, I. Stambolova, V. Blaskov, P. Georgiev, S. Simeonova, S. Vassilev, A. Eliya. **Photocatalytically active Au/TiO_2 films deposited by two-step spray pyrolysis**. *Comptes Rendus de L'Academie Bulgare des Sciences*, 69 (3), pp. 269-274, **2016**

7. A. Chanachev, S. Simeonova, P. Georgiev, Tz. Ivanova, S. Petrova, K. Balashev. **Characterization by atomic force microscopy of gold nanoparticles functionalized with azocasein for protease colorimetric enzyme assay**. Bulgarian chemical communication, submitted, **2017**

Participation in scientific projects:

Project 178/2009 *"Manufacturing a new technology to produce biodegradable scaffolds for tissue engineering"*, financed by Sofia University, Scientific Research Fund;

Project 02/70/2009 *"Biomaterials for bone implants calcium-phosphate-based ceramics, cements and hybrid materials"*, financed by Ministry of Science and Education, Scientific Research Fund;

Project "Beyond Everest", FP7-REGPOT-2011-1
Development of the research potential of the Faculty of Chemistry, Sofia University, in the area of advanced functional materials for successful participation in world-class research at EU level;

Project 161/2015, *"New methods for functioning of gold nanoparticles with proteins and biopolymers for biotechnology and nanotechnology applications"*, financed by Sofia University, Scientific Research Fund;

Project "Materials Networking project", H2020-TWINN-2015
Enhancing the scientific capacity of the Faculty of Chemistry and Pharmacy at Sofia University as leading regional research and innovation centre in the area of advanced functional materials;

Project 80-10-241/2017, *"Obtaining and characterization of viscous chitosan hydrogels as drug delivery systems"*, financed by Sofia University, Scientific Research Fund.