Employment Information:

- 2010. Associate Professor, Department of Physical Chemistry and Instrumental Methods, Faculty of Pharmacy, University of Belgrade
- 2005. 2010. Assistant Professor
- 1998. 2005. Senior Teaching Assistent
- 1994. 1998. Teaching assistant
- 1993. 1994. Research Assistant
- 1992. 1994. Research Assistant, Faculty of Physical Chemistry, University of Belgrade

Education:

- 2003. Ph.D. Physical Chemistry deffended Ph.D. thesis entitled: "Electrochemical Behavior and Determination of Cephalosporin Antibiotic Cefetamet in Alcohol - Water Mixture", Faculty of Physical Chemistry, University of Belgrade.
- 1998. M. Sc. Physical Chemistry deffended Master thesis entitled: "Determination of Protonation Constants and Electrochemical Behavior of Cefetamet-Na", Faculty of Physical Chemistry, University of Belgrade.
- 1992. B. Sc. Physical Chemistry graduated at Faculty of Physical Chemistry, University of Belgrade.

Training:

- October 2008. January 2009. Training in Department of Biophysical Chemistry and Molecular Oncology, Institute of Biophysics, Czech Academy of Science, Brno, Czech Republic.
- January 2010. Invited visit in Department of Biophysical Chemistry and Molecular Oncology, Institute of Biophysics, Czech Academy of Science, Brno, Czech Republic.

Academic awards and distinctions:

- 2002. Annual Award of Ministry of Science, Technologies and Development, Republic of Serbia for the best young scientists – Masters of Science.
- 2005. Mentor for the research awarded with the First prize award of the University of Belgrade for the best student scientific research paper.

Teaching activities:

- Integrated academic studies Courses:
 - Physical Chemistry (study programs: Pharmacy and Pharmacy Medical Biochemistry);
 Instrumental Methods (study program: Pharmacy Medical Biochemistry);
 Colloid Chemistry (study programs: Pharmacy and Pharmacy Medical Biochemistry);
- Doctoral studies module Drug analysis, Course: Spectroscopic Methods in Drug Analysis
- Specialized studies designed for health care Course: Instrumental Methods
- Mentor of 23 graduation thesis and a member of Committee for over 60 undergraduate theses.
- Mentor of 13 students scientific research papers (Faculty of Pharmacy-University of Belgrade and the Faculty of Physical Chemistry), 2005.-2014.

Textbooks:

- Nataša Pejić and Mara Aleksić Selected topics of Colloid Chemistry, Faculty of Pharmacy, University of Belgrade. Belgrade 2013 (ISBN 978–86–6273–031–2).
- Vesna Kuntić, Mara Aleksić, Nataša Pejić and Slavića Blagojević *Practicum in Physical Chemistry*, Faculty of Pharmacy, University of Belgrade. Belgrade, 2010 (ISBN 978–86–80263–72–4)
- Vesna Kuntić, Mara Aleksić, Leposava Pavun and Nataša Pejić Collection of Exercises in Physical Chemistry, Faculty of Pharmacy, University of Belgrade, Belgrade, 2003 (ISBN 86–904849–0–6)

Activities within the Faculty:

- Member of the Faculty Council (since 2010.)
- President of the Council for first year (since 2011.)
- President of the Commission for property inventory of the department of Physical Chemistry and Instrumental Methods (2011/2012)
- Committee member for report writing on the applied candidates for a vacancy for two assistant professors at Faculty of Pharmacy (2013.)
- Member of the Commission for property inventory of the department of Physical Chemistry and Instrumental Methods (2008/2009)

Activities within wider Academic Community:

• Co-author of Equipment Catalogue, Faculty of Pharmacy University of Belgrade (2013.)

- Committee member for report writing on the applied candidates for a vacancy for one teaching assistant at Faculty of Physical Chemistry, University of Belgrade (2009.) and one research associate at Faculty of Sciences, University of Kragujevac (2011.)
- Lecturer at 2nd Regional Simposium on Electrochemistry South-East Europe, 6-10 June 2010, Belgrade, "Polylysine-catalyzed hydrogen evolution at mercury electrodes"
- Lecturer at Petnica Science Center during the autumn chemistry course "Application of Polarography and Voltammetry in Bioelectrochemistry" (2010.)
- Author of the publication "Electrochemical behavior and determination of cefetamet", Zadužbina Andejević, Editio Disertatio, Beograd 2005, ISBN 86-7244-492-2.
- Plenar lecturer at 3rd Conress of Jugoslav pharmacists, Belgrade, 29. October 2. November 2002.
- Reviewer for the papers of International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia
- Reviewer in the numerous international journals (2005. –2014.): Talanta, Journal of Serbian Chemical Society, Sensor letters, International Journal of Electrochemistry, Current Pharmaceutical Analysis, Electroanalysis, Croatica Chimica Acta, Chemical Industry, Food Analytical Methods
- Member of the American Chemical Society
- Member of the Society of Serbian Chemical Society
- Member of the Society of Physical Chemistry of Serbia

Projects:

 2011. – 2015. Synthesis, quantitative structure-activity relationships, physico-

chemical characterization and analysis of pharmacologically active substances (Faculty of Pharmacy, University of Belgrade, grant number 172033, Ministry of Education, Science and Technological Development Republic of Serbia).

- 2006. 2010. Synthesis, QSAR, QSPR, physical-chemical characterization and analysis of pharmacologically active substances, (Faculty of Pharmacy, University of Belgrade, grant number 142071, Ministry of Science and Environmental Protection of Serbia).
- 2002. 2005. Molecular structures, chemical transformations, physicalchemical characterization, pharmaceutically impurity and analysis of pharmacologically active substances (Faculty of Pharmacy, University of Belgrade, grant number 1458, Ministry of Science and Environmental Protection of Serbia).
- 2002. 2003. Research and development of radiopharmacueticals and other agents for their medical use (Vinča Institute for nuclear sciences, grant number 1980, Ministry of Science and Environmental Protection of Serbia).

- 1996. 2000. Equilibrium in complex medium (Faculty of Physical Chemistry, University of Belgrade, Ministry of Science and Environmental Protection of Serbia).
- 1996. 1998. Bio–pharmaceutical and chemical engineering research of medicinal substances and herbs (Faculty of Pharmacy, University of Belgrade, Ministry of Science and Environmental Protection of Serbia).

Publications:

- **M. Aleksić,** V. Kapetanović, "An overview of the optical and electrochemical methods for detection of DNA drug interaction" *Acta Chimica Slovenica*, 2014, 61, 555–573. (Review article).
- **M. Aleksić**, V. Radulović, D. Agbaba, V. Kapetanović, "An extensive study of electrochemical behavior of brimonidine and its determination at glassy carbon electrode" *Electrochimica acta*, 2013, 106, 75–81.
- V. Radulović, M. Aleksić, D. Agbaba, V. Kapetanović, "An Electroanalytical Approach to Brimonidine at Boron Doped Diamond Electrode Based on Its Extensive Voltammetric Study" *Electroanalysis*, 2013, 25(1), 230-236.
- V. Radulović, M. Aleksić, V. Kapetanović, "An electrochemical study of the adsorptive behaviour of Varenicline and its interaction with DNA", *Journal* of the Serbian Chemical Society, 2012, 77(10), 1409-1422.
- M. Živanović, M. Aleksić, V. Ostatná, T. Doneux, E. Paleček, "Polylysine-Catalyzed Hydrogen Evolution at Mercury Electrodes" *Electroanalysis*, 2010, 22(17-18), 2064-2070.
- M. Aleksić. V. Kapetanović, "Application of Adsorptive Stripping Voltammetry for the Determination of Selected Methoxyimino Cephalosporins in Urine Samples" Combinarial Chemistry & High Throughput Screening, 2010, 13(8), 758-763. (Review article)
- **M. Aleksić,** V. Kapetanović, J. Atanacković, B. Jocić, M. Zečević "Simultaneous determination of cefotaxime and desacetylcefotaxime in real urine sample using voltammetric and high-performance liquid chromatographic methods" *Talanta* 2008, 77, 131-137.
- M. Aleksić, V. Savić, G. Popović, N. Burić, V. Kapetanović, "Acidity constants of cefetamet, cefotaxime, ceftriaxone; the effect of the substituent at C3 position" *Journal of Pharmaceutical and Biomedical Analysis* 2005, 39, 752-756.

- V. Kapetanović, M. Aleksić, P. Zuman, "Two step reduction of the Omethyloxime grouping in the antibiotic cefetamet", *Journal of Electroanalytical Chemistry* 2001, 507(1-2), 263-269.
- P. Zuman, V. Kapetanović, **M. Aleksić**, "Recent developments in electroanalytical chemistry of cephalosporins and cefamycins", *Anallytical Letters*, 2000, 33(14), 2821-2857. (Review article)