

Tatjana Trtić-Petrović

Personal data

1. Name: **Tatjana**
2. Surname: **Trtić-Petrović**
3. Languages: Serbian and English
4. Profession: Scientist
5. Degree: PhD
6. Title: Senior Research Associate
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Education and training

1. Faculty of Chemistry, University of Belgrade, Belgrade, Serbia, 1986-1990, BSc
2. Faculty of Chemistry, University of Belgrade, Belgrade, Serbia, 1991-1994, MSc
3. Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia, 1995-2000, PhD
4. Karlsruhe Institute of Technology (formerly Forschungszentrum Karlsruhe), Karlsruhe, Germany, 1998, study stay
5. Department of analytical chemistry, Lund University, Lund, Sweden, post-doctoral study, Wenner Gren Foundations fellow, 2001-2004.

Research activities

1. 1992-1994: Development of RAST assay for determination of specific (anti-*Populus canadensis* and *Phleum pratense*) IgE antibodies
2. 1995-2000: Extraction of thallium(III) in hollow fiber contactors
3. 2001-2004: Determination of drug-protein binding using supported liquid membrane
4. 2004-2010 and forth: Separation of free radionuclide and radiopharmaceutical by membrane extraction
5. 2004-2010 and forth: Membrane extraction in analysis and separation of pesticides
6. 2004-2010 and forth: Electrochemical determination of metals and pesticides

Academic activities

1. K. Kumrić, MSc thesis, mentor, 2006
2. K. Kumrić, PhD thesis, mentor, 2010

Memberships

1. Member of the Serbian Chemical Society, Belgrade, Serbia

Scientific publications

1. 23 articles in refereed international journals
2. 21 contributions at international conferences
3. 5 other publications

Up to ten most important publications

1. **T. M. Trtić** and J. J. Čomor, *Extraction of Thallium with Butyl Acetate*, Separation Science and Technology 34 (1999) 771-779.

2. **T. M. Trtić-Petrović**, G. T. Vladislavljević, and J. J. Čomor, *Dispersion-free extraction of thallium(III) in hollow fiber contactors*, Separation Sciences and Technology 35 (2000) 1587-1601.
3. **T. M. Trtić-Petrović**, G. T. Vladislavljević, S. C. Archimandritis, A. Varvarigou, and J. J. Čomor, *Influence of module arrangements on solvent extraction of thallium(III) in hollow fiber contactors*, Journal of Separation Science 24 (2001) 519-525.
4. **T. M. Trtić-Petrović** and J. Å. Jönsson, *Application of SLM extraction for investigation of metal-humic acid bindings*, Desalination 148 (2002) 247-251.
5. **T. M. Trtić-Petrović** and J. Å. Jönsson, *Determination of drug-protein binding using supported liquid membrane extraction under equilibrium conditions*, Journal of Chromatography B 814 (2005) 375-384.
6. **T. M. Trtić-Petrović**, J-F. Liu, and J. Å. Jönsson, *Equilibrium sampling through membrane based on a single hollow fibre for determination of drug-protein binding and free drug concentration in plasma*, Journal of Chromatography B 826 (2005) 169-176.
7. K. Kumrić, **T. Trtić-Petrović**, E. Koumariou, S. Archimandritis, and J. J. Čomor, *Supported liquid membrane extraction of ¹⁷⁷Lu(III) with DEHPA and its application for purification of ¹⁷⁷Lu-DOTA-lanreotide*, Separation and Purification Technology 51 (2006) 310-317.
8. T. Barri, **T. Trtić-Petrović**, M. Karlsson, and J. Å. Jönsson, *Characterization of drug-protein binding process by employing equilibrium sampling through hollow-fiber supported liquid membrane and Bjerrum and Scatchard plots*, Journal of Pharmaceutical and Biomedical Analysis 48 (2008) 49-56.
9. **T. Trtić-Petrović**, J. Đorđević, N. Dujaković, K. Kumrić, T. Vasiljević, and M. Laušević, *Determination of selected pesticides in environmental water by employing liquid-phase microextraction and liquid chromatography–tandem mass spectrometry*, Analytical and Bioanalytical Chemistry 397 (2010) 2233-2243.
10. **T. M. Trtić-Petrović**, K. R. Kumrić, J. S. Đorđević, and G. T. Vladislavljević, *Extraction of lutetium(III) from aqueous solutions by employing a single fibre-supported liquid membrane*, Journal of Separation Science 33 (2010) 2002-2009.