



Dr Lina Mikoliūnaitė works at the Faculty of Chemistry and Geosciences of the Institute of Chemistry, Vilnius University since 2006. Currently, she is the director and associate professor at the Institute of Chemistry and delivers a number of courses on physical chemistry. In 2015, Lina Mikoliūnaitė defended her doctoral thesis in the field of chemistry 'Application of Polypyrrole for Biological Sensors and Modification of Living Cells'. Between 2020 and 2022, she conducted the postdoctoral project 'Shell isolated magneto-plasmonic nanoparticles: synthesis and applications in Raman spectroscopy (Magneto-SHINERS)' at the Department of Organic Chemistry of the Center for Physical Sciences and Technology. She also supervises of students' bachelor and master theses and doctoral dissertations and is a member of dissertation defence commissions. During her doctoral and post-doctoral years, she had internships in Germany (Chemnitz University of Technology), Italy (University of Camerino), France (European Membrane Institute and University of Artois), and Poland (University of Warsaw). During these years, Dr Mikoliūnaitė's research direction focused on the synthesis of magneto-plasmonic composites and their application in surface-enhanced Raman spectroscopy (SERS). The research is divided into several tasks: (1) synthesis of magnetic nanoparticles using various methods; (2) coating these particles with gold and/or silver nanoparticles having plasmonic properties; (3) application of the created composites in SERS studies using a model analyte. In the future, these experiments will be continued by applying the produced structures to different analytes, such as comparing cancerous and healthy tissue. In addition to this, the range of plasmonic particles used will also be expanded to include aluminium nanoparticles. In this case, SERS could also be measured in the UV spectral range. Dr Lina Mikoliūnaitė is the author and co-author of 49 publications. According to the Web of Science (Clarivate Analytics) database, her h-index is 21, and her research publications have been cited for almost 1000 times, 98 % of which is not self-citations. Dr Mikoliūnaitė participates in high-level scientific conferences and projects, has experience in managing research projects, is also a reviewer and editor of research journals. She is a recipient of the Theodor van Grotthuss Award of the Lithuanian Academy of Sciences for scientific achievements.