

Politehnica University Timișoara Award for EXCELLENCE IN RESEARCH Lector Lavinia-Afrodita LUPA, PhD

At the end of the year, Politehnica University Timișoara awarded the “Excellence in Research” prizes to young people who achieved remarkable results during the academic year 2018-2019.

Lavinia-Afrodita Lupa is lector at the Faculty of Industrial Chemistry and Environmental Engineering. Her research activity is mainly carried out in the field of environmental engineering, in close correlation with chemical engineering. In the year 2018-2019 she published 16 articles in ISI journals, from which at 3 as first author and at 2 as the corresponding author. Her main research area is represented by the water treatment technologies using adsorption processes. In this direction she has been continuously concerned with obtaining and developing new viable, efficient and economical adsorbent materials, by reclaiming different wastes and by-products resulting from different industrial branches. The useful elements from waste

resulted, especially from hot -dip galvanizing processes, were reclaimed as layered double hydroxides and used with success in different adsorption or photocatalytic processes. In order to improve the adsorbent capacities of the studied materials, in the last years she has focused on the use of ionic liquids as green extractants in the removal processes of pollutants from water. In this direction she published as first author a manuscript in the journal of Separation and Purification Technology, Q1 quartile having an impact factor of 5.107. The importance and novelty of the experimental studies presented in this article are underlined by the large number of citations gathered in one year since publication, namely 18 (without self-citations).

