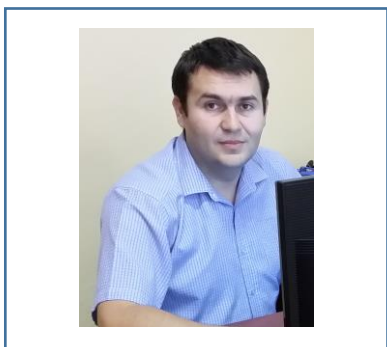


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BIOGRAPHICAL SKETCH

Anton FICAI is full professor and PhD advisor in the Faculty of Chemical Engineering and Biotechnologies, University POLITEHNICA of Bucharest being actively involved in both academic and scientific life of the university. The research interests cover the following topics: tissue engineering; drug delivery systems; multifunctional materials; composite materials; coatings, antimicrobial / antitumoral materials; material design; surface modification; etc. Till now, over 300 scientific papers, from which over 250 ISI papers and 18 books or chapters (including 2 edited books) were published along with 28 patent applications (10 of them being already released). The international recognition of the R&D activity can be highlighted by the multiple invitations for participate as speaker at international conferences, the positions of guest editors, member of the editorial boards of different national and international journals as well as Section Editor in Chief of Coatings. Valedictorian of UPB, former participant and laureate of the National Chemistry Olympiads. He was awarded with over 100 Gold Medals, Special Awards or Best Paper Awards.

TITLE: Mesoporous silica: loading and release of biological active agents

ABSTRACT

Mesoporous silica is, starting from more than three decades an extensively used class of materials with potential applications in medicine. Surface modification and pore characteristics are essential parameters of these materials but loading technology is also challenging and can be exploited for delivering biological active agents. In this context, a special attention will be focused on the vacuum assisted loading of biological active agents within the pores of the mesoporous materials.