dr. Magdalena Cristina Stanciu

Scientific Researcher

e-mail: cstanciu@icmpp.ro

Research topics

◘ Cationic amphiphilic polymers obtained by chemical modification of linear, cross-linked or semi-telechelic polysaccharides (synthesis, characterization, self-association process and medical applications); ◘ Anionic amphiphilic polysaccharides based on bile acids (synthesis, characterization and self-aggregation behavior); ◘ Neutral amphiphilic polysaccharides (esters, block copolymers) derived from N-containing heterocycles or bile acids, respectively (synthesis, characterization, thermal properties, self-organizing capacity and medical applications); ◘ Low-molecular compounds based on O-containing heterocycles (chalcones, Schiff and Mannich bases) (synthesis and characterization)

Profile address:

Scopus ID: 7003580981 (http://orcid.org/0000-0001-9462-5412)

Scientific research

Author and co-author of 23 articles (from which 16 ISI), 2 book chapters, over 48 participations at international and national scientific meetings, 11 national research grants (member).
Author output: h-index = 6; citations = 181; without self citations = 155

Relevant publications

1. Magdalena Cristina Stanciu, Dalila Belei, Cristina G.Tuchilus, Marieta Nichifor
Novel amphiphilic dextran esters with antimicrobial activity
International Journal of Biological Macromolecules, **2020,** 150, 746-755; *DOI: 10.1016/j.ijbiomac.2020.02.021*

2. Magdalena Cristina Stanciu, Marieta Nichifor, Georgeta Mocanu, Cristina G. Tuchilus, Gabriela L.Ailiesei
Block copolymers containing dextran and deoxycholic acid polyesters. Synthesis, self-assembly and hydrophobic drug encapsulation
Carbohydrate Polymers, **2019**, 223, 115118–115127; *DOI: 10.1016/j.carbpol.2019.115118*

3. Magdalena Cristina Stanciu, Marieta Nichifor
Influence of dextran hydrogel characteristics on adsorption capacity for anionic dyes
Carbohydrate Polymers, **2018**, 199, 75-83; *DOI: 10.1016/j.carbpol.2018.07.011*

4. Magdalena Cristina Stanciu, Marieta Nichifor
New biocompatible amphiphilic diblock copolymer based on dextran
European Polymer Journal, **2015**, 71, 352–363; *DOI: 10.1016/j.eurpolymj.2015.08.011*

5. Magdalena Cristina Stanciu, Marieta Nichifor,
New degradable polyesters from deoxycholic acid and oligo(ethylene glycol)s
Polymer International, **2013**, 62, 1236–1242; *DOI: 10.1002/pi.4414*