



Dr. Sanda Bucatariu

Research assistant

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Research topics

• Synthetic polymers synthesis, characterization and loading/release studies • Synthesis and characterization of stimuli sensitive polymers and hydrogels, controlled release by the smart delivery systems based on hydrogels and composites polysaccharides • Biomaterials (matrix, hydrogels) with medical applications • Micro-/nano-particles obtained by chemical cross-linking of polysaccharides.

Profile address:

Researcher ID: AAH-4078-2020 (<http://www.researcherid.com/rid/AAH-4078-2020>)

Scientific research

Author and co-author of **23 articles (22 ISI)**, **1 national patent**, over **25 participations at national and international scientific meetings**, and member in **6 research grants** (1 international).

Author output: h-index = 12; citations = 448 (web of science); without self-citations = 369

Relevant publications

1. Bucatariu S.-M., Constantin M., Varganici C.D., Rusu D., Nicolescu A., Prisacaru I., Carnuta M., Anghelache M., Calin M., Ascenzi P, Fundueanu G.

A new sponge-type hydrogel based on hyaluronic acid and poly(methylvinylether-alt-maleic acid) as a 3D platform for tumor cell growth

Internat. J. Biol. Macromol., 165B, 2528-2540 (2020)

DOI: 10.1016/j.ijbiomac.2020.10.095

2. Fundueanu G., Constantin M., Bucatariu S., Ascenzi P.

Poly(N-isopropylacrylamide-co-N-vinylpyrrolidone) thermoresponsive microspheres: The low drug loading ensures the pulsatile release mechanism

Express Polymer Letters 2020, 14(1), 63-76

DOI: 10.3144/expresspolymlett.2020.6

3. Constantin M., Bucatariu S.M., Doroftei F., Fundueanu G.

Smart composite materials based on chitosan microspheres embedded in thermosensitive hydrogel for controlled delivery of drugs

Carbohydr. Polym. 2017, 157, 493-502

DOI: 10.1016/j.carbpol.2016.10.022

4. Bucatariu S., Constantin M., Ascenzi P., Fundueanu G.

Poly(lactide-co-glycolide)/cyclodextrin (polyethyleneimine) microspheres for controlled delivery of dexamethasone

Reactive & Functional Polymers 2016, 107, 46-53

DOI: 10.1016/j.reactfunctpolym.2016.08.008

5. Bucatariu S., Fundueanu G., Prisacaru I., Balan M., Stoica I., Harabagiu V., Constantin M.

Synthesis and characterization of thermosensitive poly(N-isopropylacrylamide-co-hydroxyethylacrylamide) microgels as potential carriers for drug delivery

Journal of Polymer Research 2014, 21 (11), 580

DOI: 10.1007/s10965-014-0580-7

6. Constantin M., Bucatariu S., Harabagiu V., Popescu I., Ascenzi P., Fundueanu G.

Poly(N-isopropylacrylamide-co-methacrylic acid) pH/thermo-responsive porous hydrogels as self-regulated drug delivery system

European Journal of Pharmaceutical Sciences 2014, 62, 86-95

DOI: 10.1016/j.ejps.2014.05.005