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Research topics

- Maleic anhydride/acid copolymers – synthesis, characterization, and applications;
- Interactions of polymers in aqueous solution (polyelectrolyte complexes, hydrogen bonded complexes) and thin films formation using layer by layer deposition technique;
- Cross-linked polymeric structures (hydrogels, microparticles) based on polysaccharides and synthetic polymers for environmental or biomedical applications.

Profile address <https://www.scopus.com/authid/detail.uri?authorId=55482392600> ;
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<https://publons.com/researcher/935119/irina-popescu> ;
<https://scholar.google.com/citations?user=IOXKx90AAAAJ&hl=en&oi=ao>

Scientific research

Author and co-author of **45 papers** (first author or corresponding author in 13 papers with ISI quotation), **2 book chapters**, **7 proceeding articles**, participations in **18 research grants** and **coordinator of 1 post-doctoral project**.

Author output Hirsh index – 11, citing articles – 290 (265 without self-citations)

Relevant publications

1. Popescu I, Turtoi M, Suflet DM, Dinu MV, Darie-Nita RN, Anghelache M, Calin M, Constantin M
Alginate/poloxamer hydrogel obtained by thiol-acrylate photopolymerization for the alleviation of the inflammatory response of human keratinocytes
Int. J. Biol. Macromol. 2021, 180, 418-431
2. Popescu I, Pelin IM, Ailiesei GL, Ichim DL, Suflet DM
Amphiphilic polysaccharide based on curdlan: Synthesis and behavior in aqueous solution
Carbohydr. Polym. 2019, 224, 115157
3. Popescu I, Pelin IM, Suflet DM
Dual-responsive hydrogels based on maleilated curdlan-graft-poly(N-isopropylacrylamide)
Int. J. Polym. Mater. Polym. Biomater., 2018, 67, 1069-1079
4. Popescu I, Suflet DM
Poly(N-vinyl caprolactam-co-maleic acid) microparticles for cationic dye removal
Polym. Bull., 2016, 73, 1283-1301
5. Suflet DM, Pelin IM, Timpu D, Popescu I
pH-sensitive multilayers based on maleic acid terpolymers with weak and strong acid moieties
Colloid Surface A, 2013, 436, 113–122