KEMIJSKI INŠTITUT

Vabilo na Forum40 / Invitation to the Forum40

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D13, Department of Catalysis and Chemical Reaction Engineering

Četrtek / Thursday, 5. 9. 2024 ob / at 13:00

Velika predavalnica Kemijskega inštituta / Great Lecture Hall

WEBEX
https://ki-ljubljana.webex.com/ki-ljubljana/j.php?MTID=mb0c9a0cf7755384489d36611d64426e7
Webinar number: 2793 120 2416
Webinar password: 7RwcZVmWf29

Hydrogel features for small molecules and microbes

Extraction of bioactive compounds from plant production residues often results in obtaining hydrophobic and/or pH/UV/water/oxygen degradation prone bioactive substances, where typical polysaccharide gels can provide better admixture to water matrices, prolongation of stability and release, and pH responsive swelling/gelation degrees. These properties are also further beneficial for microbial carriers, providing increased yields and tolerance to adverse conditions as demonstrated for bioethanol production. Furthermore, the protected environment within the carrier also nicely interacts with outside unfavourable conditions reaching a sweet spot where inhibiting factors such as organic acids prevent replication of detached cells and slow down growth within the hydrogel.

Vljudno vabljeni / Kindly invited