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STARCH/GRAPHENE HYDROGELS VIA CLICK CHEMISTRY WITH RELEVANT ELECTRICAL AND ANTIBACTERIAL PROPERTIES

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HIGHLIGHTS

- Starch based hydrogels were prepared by aqueous Diels-Alder reaction.
- Conductive hydrogel was obtained with graphene and Salvia extracts.
- The rheology and microstructure were influenced by the cross-linker amount.
- Nanocomposites showed antibacterial activity and increased mechanical properties.
- The electrical conductivity of the hydrogel nanocomposites was increased.

Abstract

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