



SLIPPERY AND ANTI-FOULING LIQUID-INFUSED COATINGS FABRICATED FROM BIODEGRADABLE AND BIOCOMPATIBLE COMPONENTS

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WARF: P220052US02

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The Invention

UW-Madison researchers developed SLIPS fabricated from building blocks that are biodegradable, edible, or generally regarded as safe (GRAS). These materials are based on nanofiber-based mats/meshes generated via electro- or blow-spinning of degradable polymers, including polycaprolactone (PCL). The degradable substrates are infused with lubricating oils, including food oils, to impart robust antifouling behavior. In addition to the oils, active agents could be co-loaded to impart additional functionality, which has utility in several applications (e.g., antimicrobial medical devices).

Tech Fields

- [Materials & Chemicals : Other materials & chemicals](#)

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867