

Super-Repellent Paper Coated with Electrospun Biopolymers and Electrosprayed Silica of Interest in Food Packaging Applications

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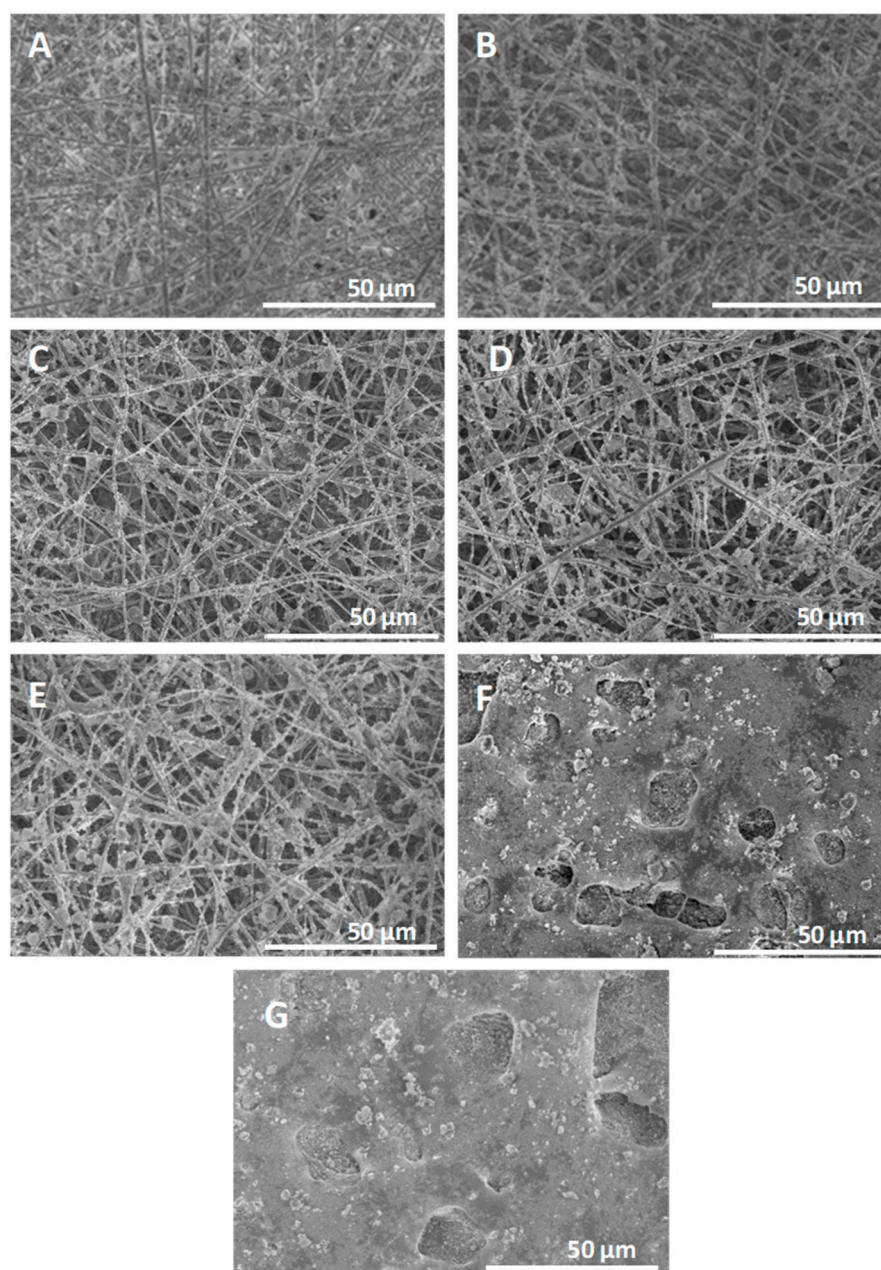


Figure S1. Field emission scanning electron microscope (FE-SEM) images of the multilayer structures based on paper, electrospun polylactide (PLA) and electrosprayed hydrophobic silica microparticles (Paper/PLA/SiO₂) at different annealing temperatures for 20 s. A: No annealing; B: 130 °C; C: 140 °C; D: 150 °C; E: 160 °C; F: 170 °C; G: 180 °C.

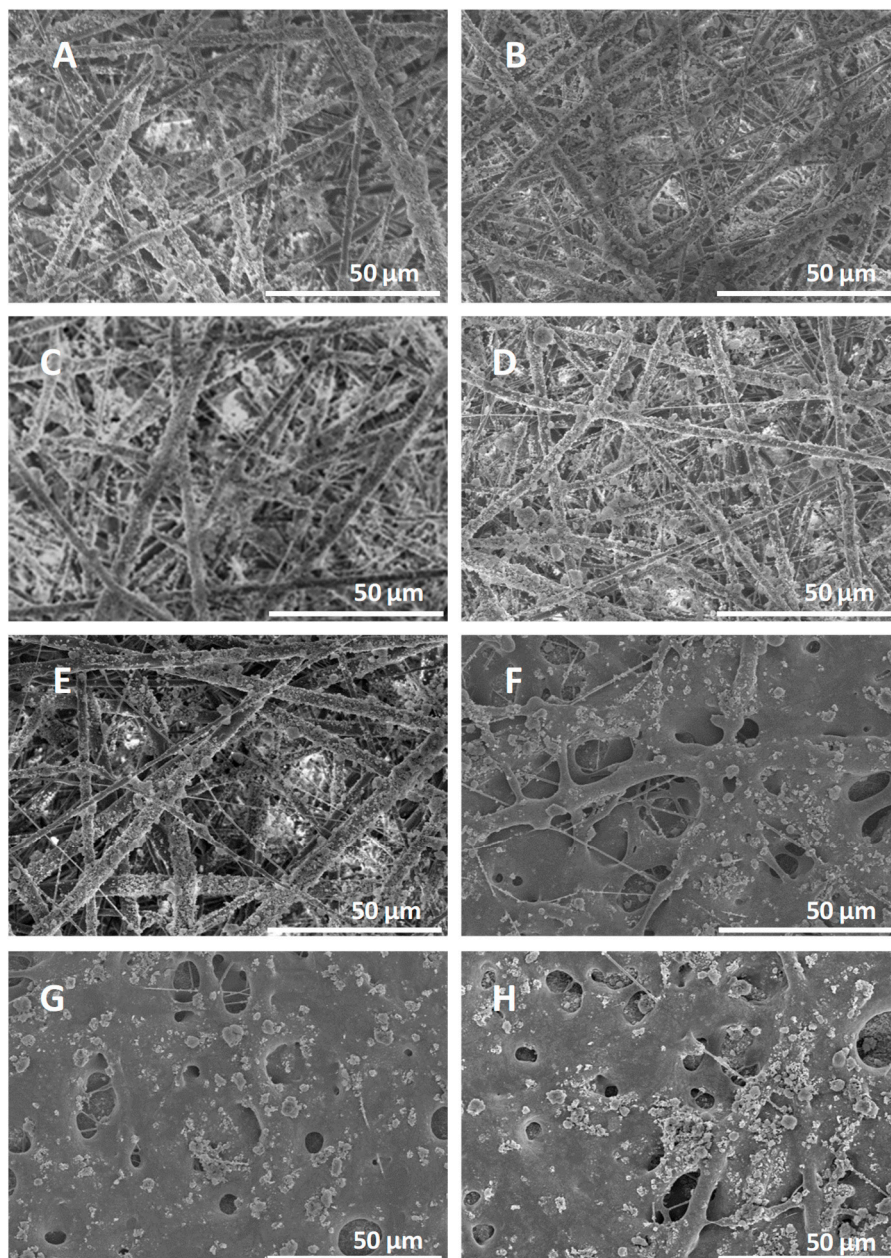


Figure S2. Field emission scanning electron microscope (FE-SEM) images of the multilayer structures based on paper, electrospun poly(ϵ -caprolactone) (PCL) and electrosprayed hydrophobic silica microparticles (Paper/PCL/SiO₂) at different annealing temperatures for 20 s. A: No annealing; B: 40 °C; C: 45 °C; D: 50 °C; E: 55 °C; F: 60 °C; G: 65 °C; H: 70 °C.

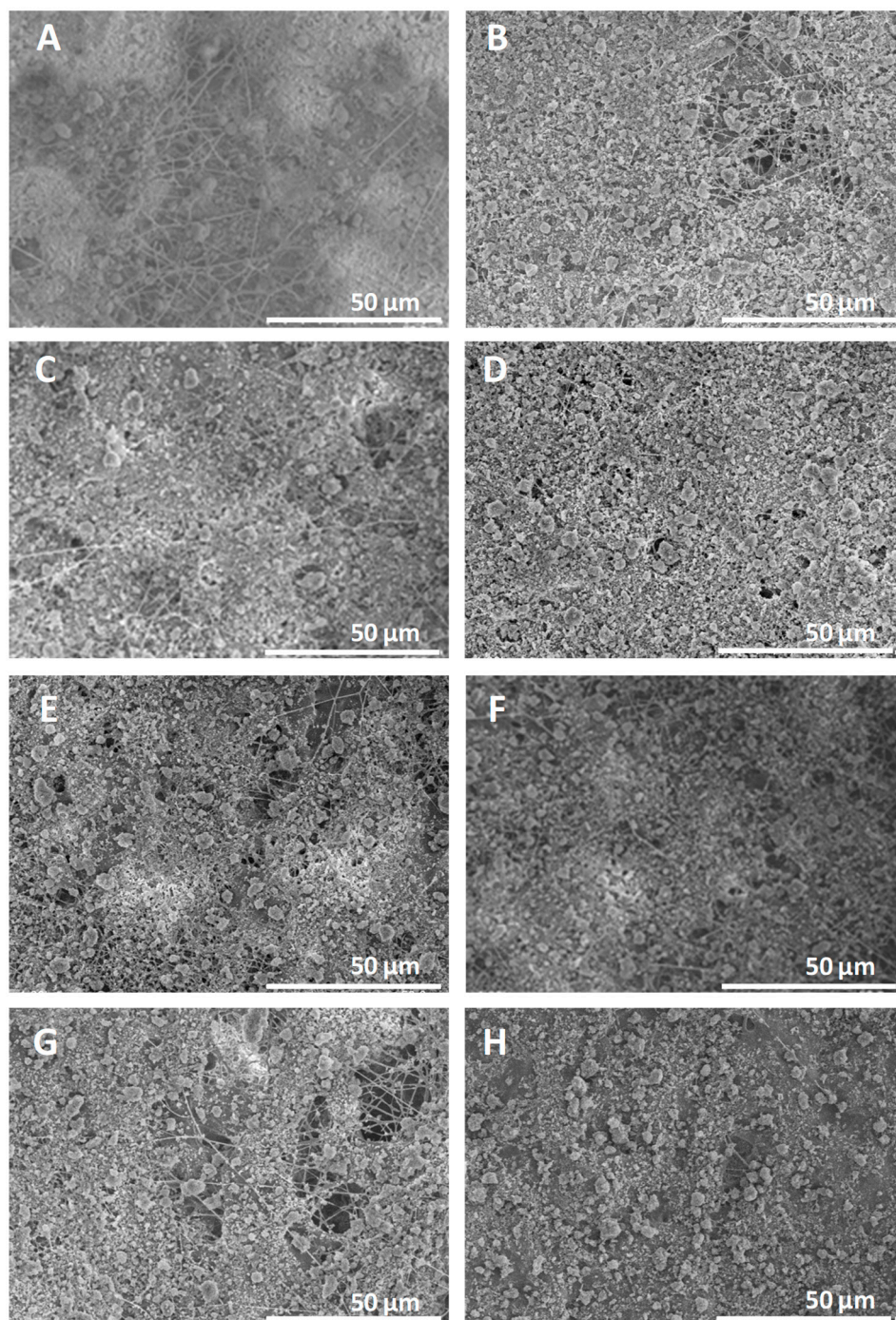


Figure S3. Field emission scanning electron microscope (FE-SEM) images of the multilayer structures based on paper, electrospun poly(3-hydroxybutyrate-co-3-hydroxy-valerate) (PHBV), and electrospayed hydrophobic silica microparticles (Paper/PHBV/SiO₂) at different annealing temperatures for 20 s: A: No annealing; B: 90 °C; C: 100 °C; D: 110 °C; E: 120 °C; F: 130 °C; G: 140 °C; H: 150 °C.