



Figure 3. Fabrication and characteristics of the SEP-coated PCL nanopatch. (a) Schematic for the fabrication of the SEP-coated PCL nanopatch, including lithography and dip-coating, and optical image of a SEP-coated flexible PCL nanopatch. (b) SEM images of uncoated (Nano) and SEP-coated (E-nano) surfaces of the nano morphology. (c) AFM images of uncoated and SEP-coated surfaces of the nano morphology. (d) FT-IR analysis of the SEP, PCL nanopatch, and SEP-coated PCL nanopatch. (e) Contact angle measurements of the PCL and SEP-coated PCL nanopatches. (f) Tensile stress analysis of the PCL and SEP-coated PCL nanopatches. (g) Adhesion force analysis of the PCL and SEP-coated PCL nanopatches (left: normal adhesion, right: shear adhesion).