Methods to produce polymer filaments are of primary importance in biology, tissue engineering, medicine, and pharmacology. We use high-speed video imaging to study the impact and bouncing of a polymer drop to generate such filaments. Different filament structures can be pulled from the drop during the bouncing, depending on the intricacies of super-hydrophobic surfaces. The liquid drops comprise distilled water and a very small amount of high molecular weight (4 MDa) polymer - poly(ethylene oxide) (PEO).
