

Charge reversal Electrojetting for anisotropic polymeric microfibers and their jet writing

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Anisotropic microstructures are utilized in various fields owing to their unique properties, such as reversible shape transitions or on-demand release of drug combinations. In addition, the 3D printing technique has been attained much attention because it can provide various 3D architecture. However, the resolution of the conventional 3D printing has limited as upper mm-scale. Herein, anisotropic multicompartamental microfibers composed of different polymers are prepared via charge reversal electrohydrodynamic (EHD) co-jetting. In addition, we present the electro-assisted 3D printing technique using above method that support  $\mu\text{m}$ -scaled resolution with either a single polymer or combinations of different polymers.