Supporting Information

## Enhancement of Mechanical Property of Polymeric Nanofibers by Controlling Crystallization Behavior by Simple Freezing/Thawing Process

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Figure S1. SEM images showing morphologies of electrospun nanofibers with different PVA concentration, (a) 6 wt%, (b) 7 wt%, (c) 8 wt%, (d) 9 wt%, (e) 10 wt%, and (f) the diameter of nanofibers as a function of PVA concentration.



Figure S2. The scheme of crosslinking reaction mechanism of PVA with GA in the presence of acid catalyst.



Figure S3. SEM images showing morphologeis of PVA nanofibers prepared with different molar ratio of GA/PVA; (a) 30:1, (b) 60:1, (c) 90:1 and (d) 120:1 before swelling process.



Figure S4. FT-IR spectra of pure PVA nanofiber (black) and cross-linked PVA nanofiber (red).