

Effect of graphene oxide synthesis method on properties and performance of polysulfone-graphene oxide mixed matrix membranes

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Supporting Information Document

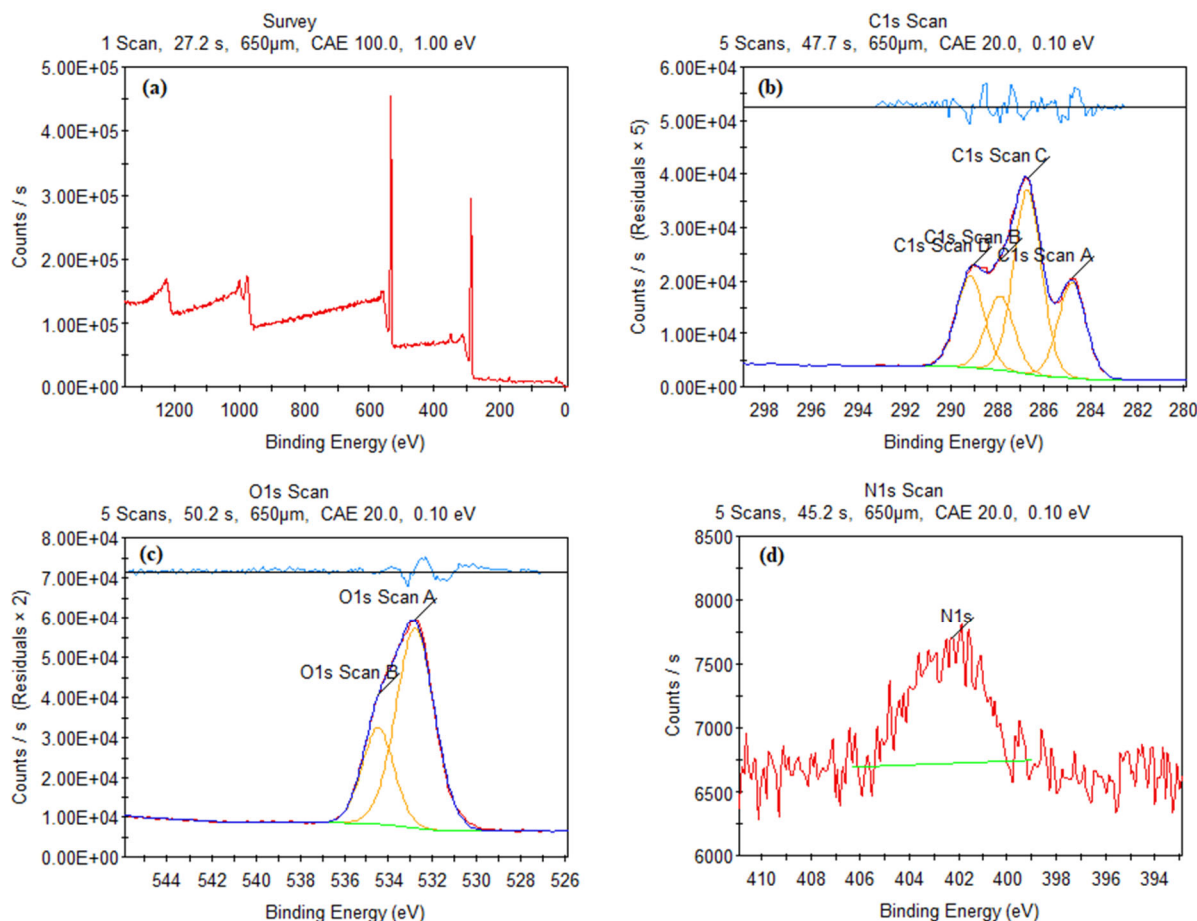


Figure S1 XPS spectra results of GOs (a) survey spectrum (b) C1s spectrum (c) O1s spectrum and (d) N1 spectrum

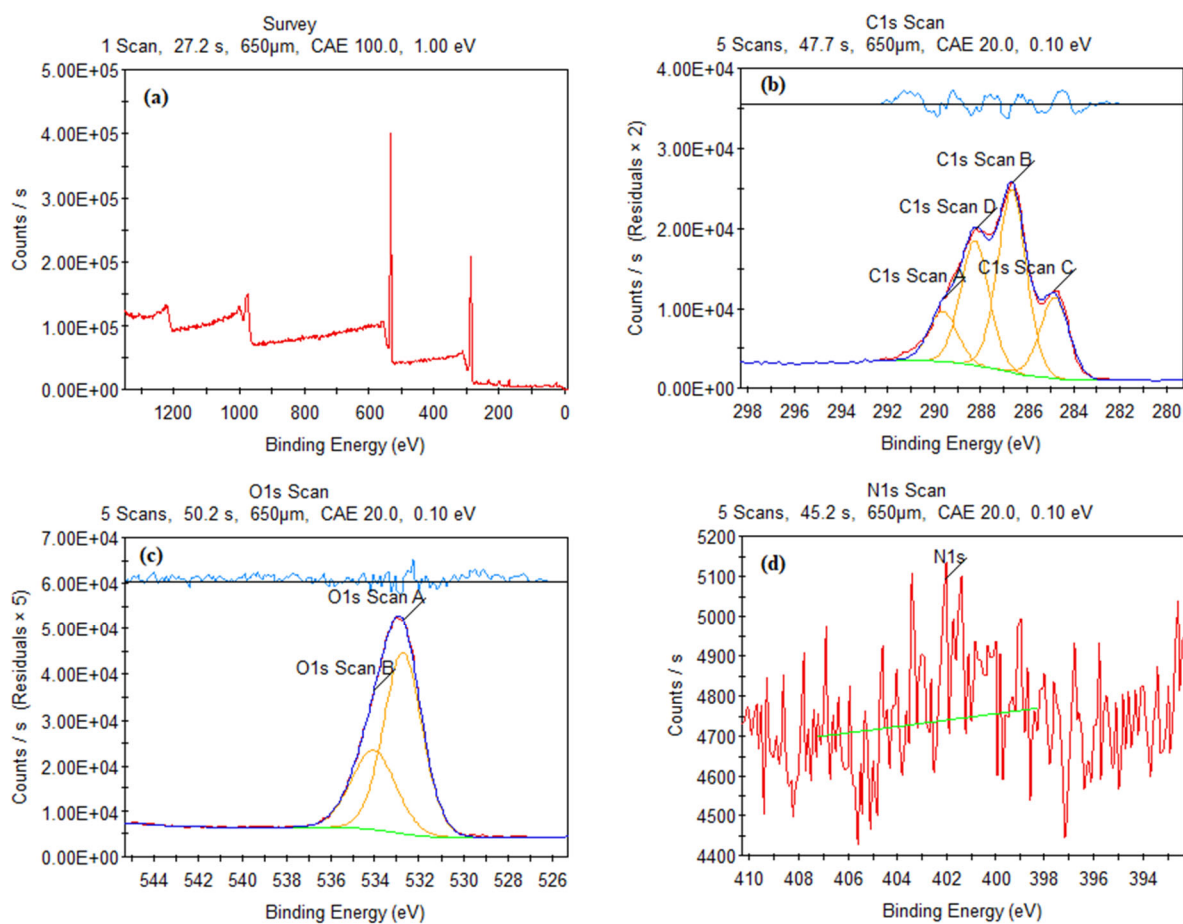


Figure S2 XPS spectra results of GO_H (a) survey spectrum (b) C1s spectrum (c) O1s spectrum and (d) N1 spectrum

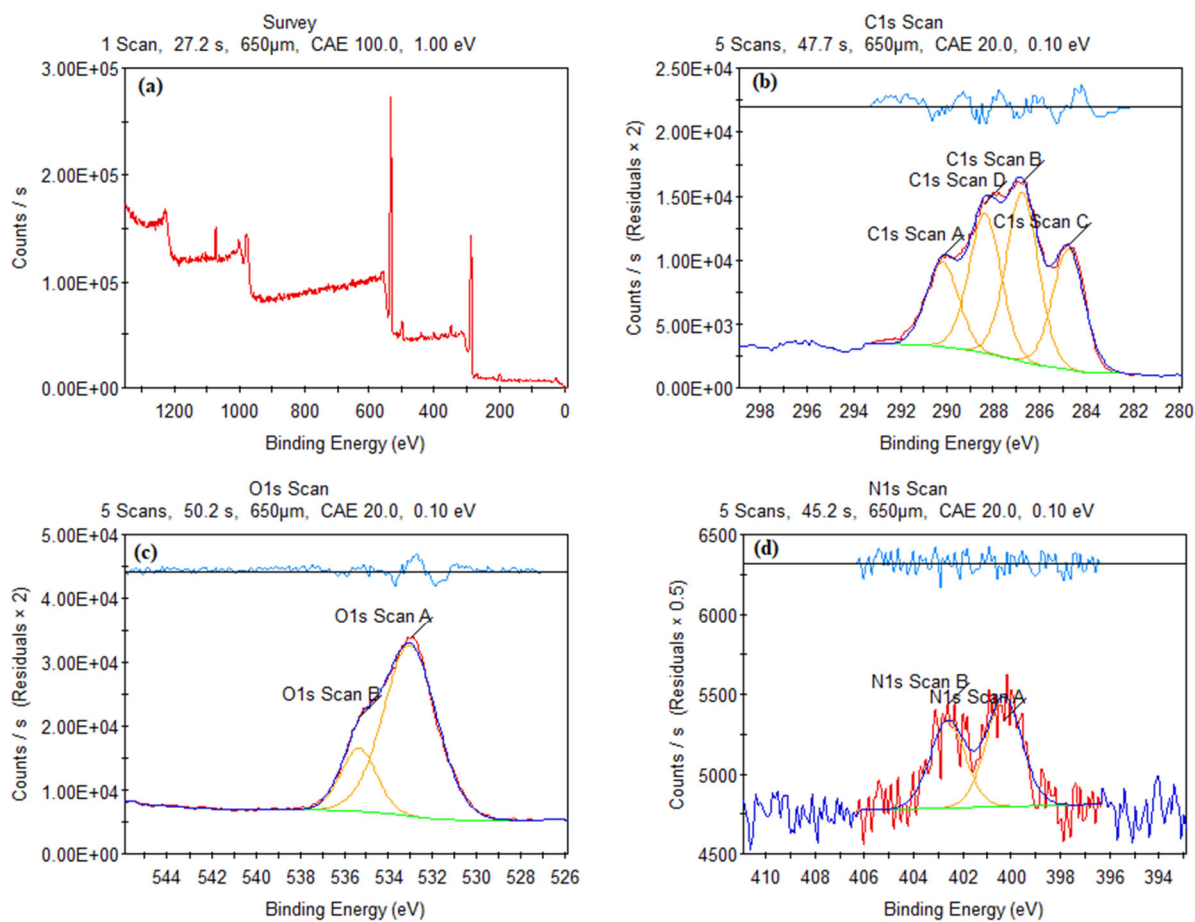


Figure S3 XPS spectra results of GO_T (a) survey spectrum (b) C1s spectrum (c) O1s spectrum and (d) N1 spectrum

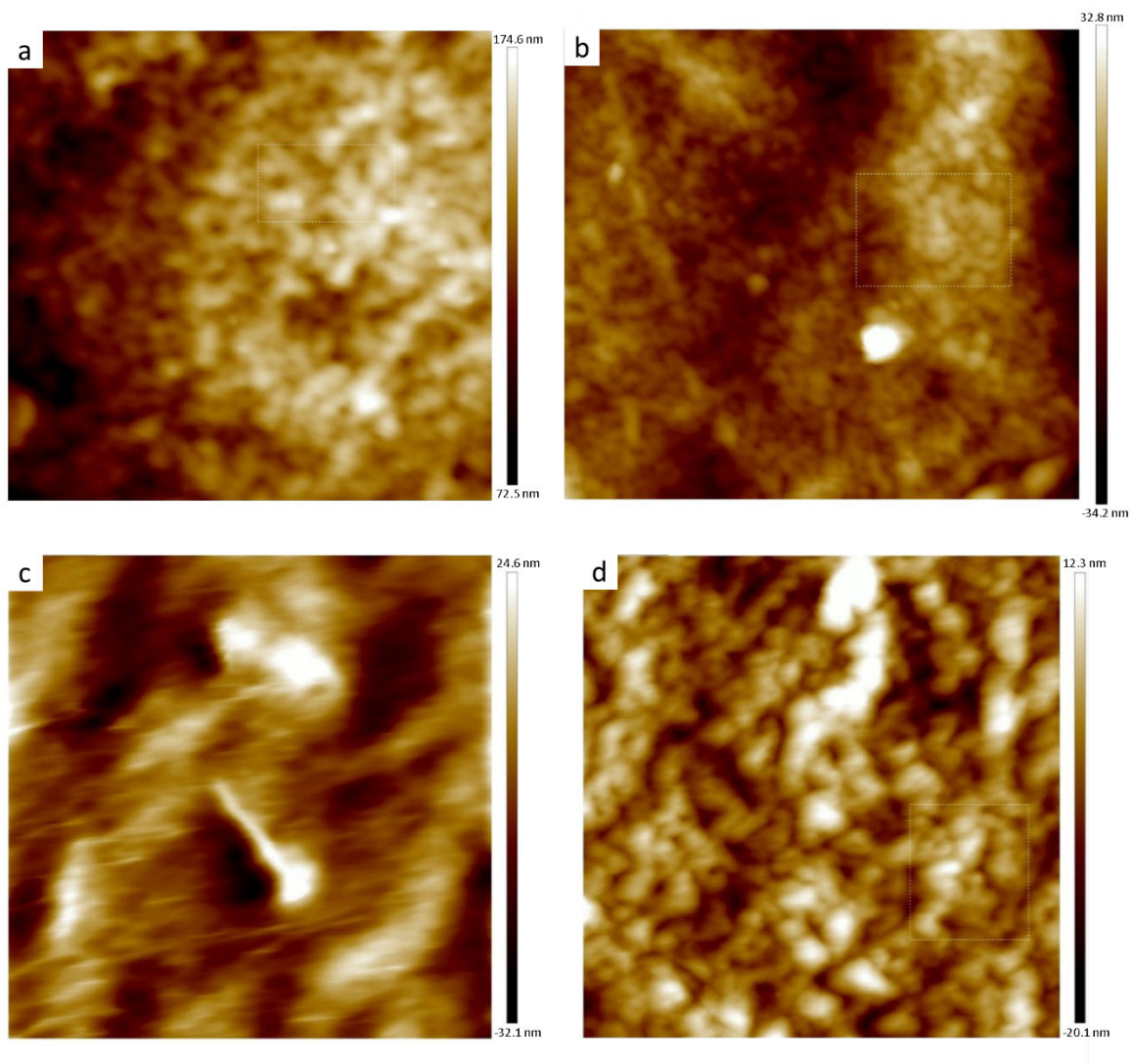


Figure S4 AFM images of membranes at $2 \times 2 \mu\text{m}$ scan area. a) GO-0wt%; b) GOs-0.2wt%; c) GO_H-0.2wt%; d) GO_T-0.1wt%.

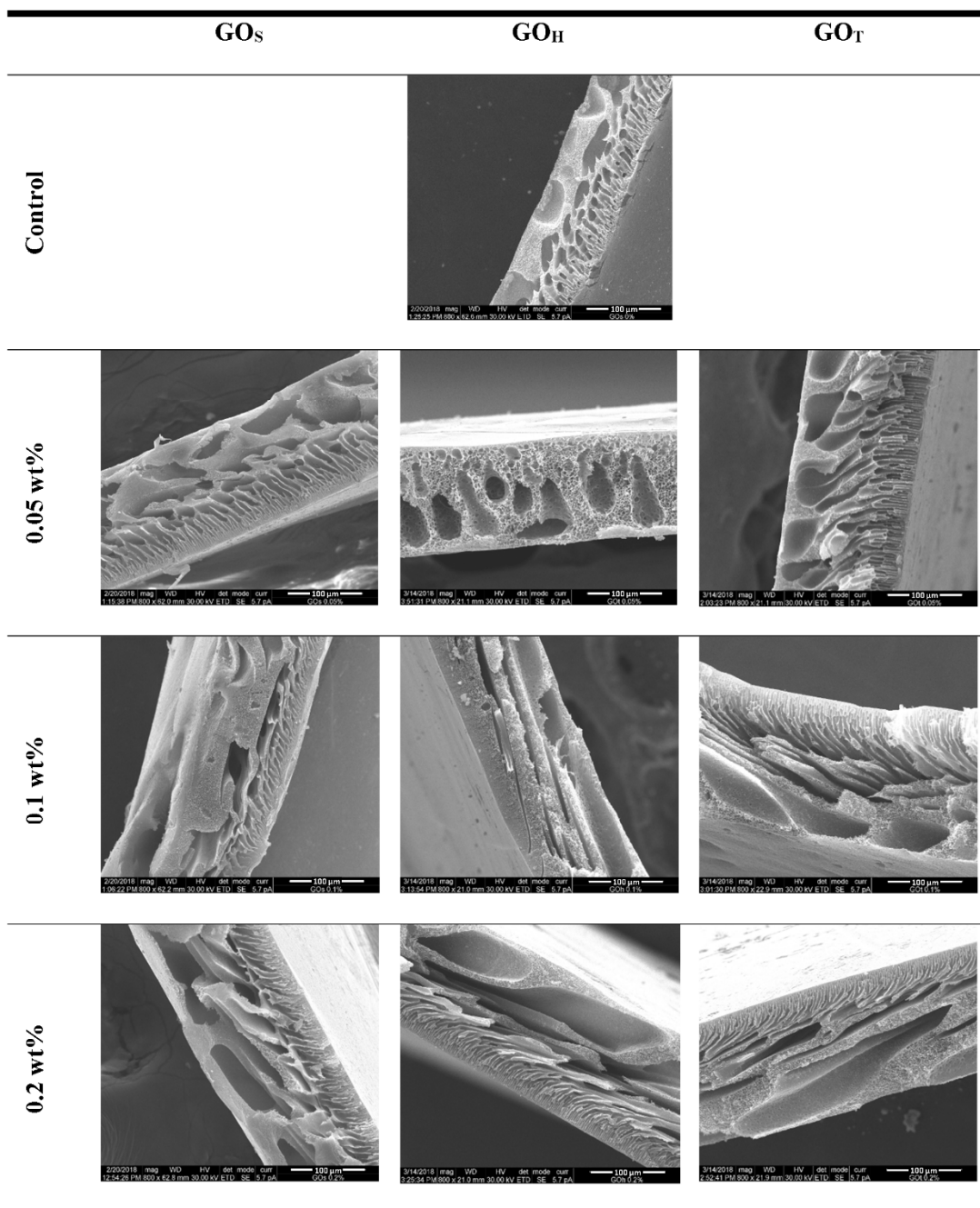


Figure S5 SEM images of cross-section of GO_S, GO_H and GO_T at various concentrations

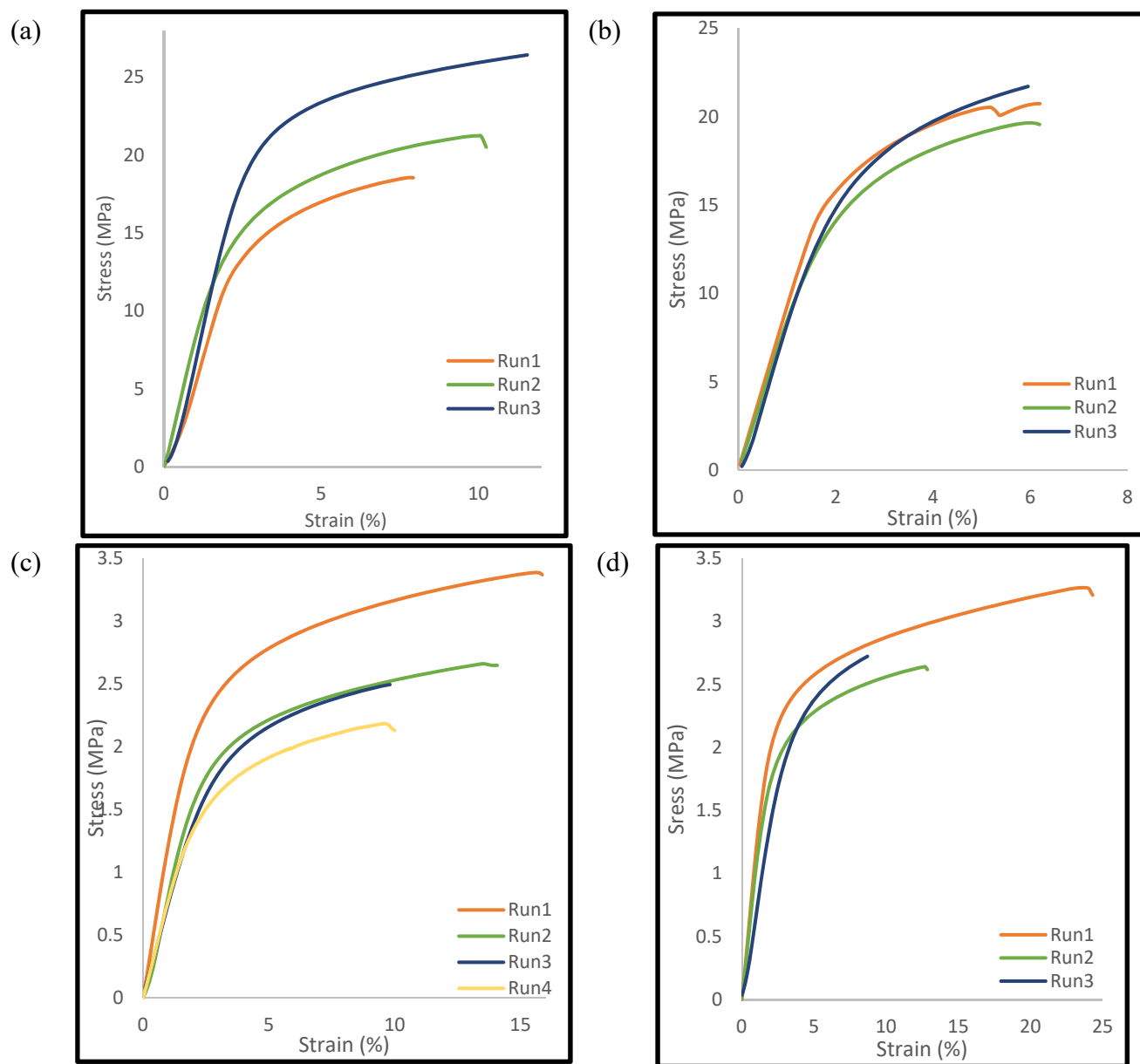


Figure S6 Stress-strain curve of uniaxial tension test for (a) control; (b) 0.2 wt.% GOs; (c) 0.2 wt.% GO_H; and (d) 0.1 wt.% GO_T