



Supplementary Materials

Rapid and Local Self-healing Ability of Polyurethane Nanocomposites using Photothermal Polydopamine-Coated Graphene Oxide Triggered by Near-Infrared Laser

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Scheme S1. Synthetic procedure of polyurethane with disulfide bonds.

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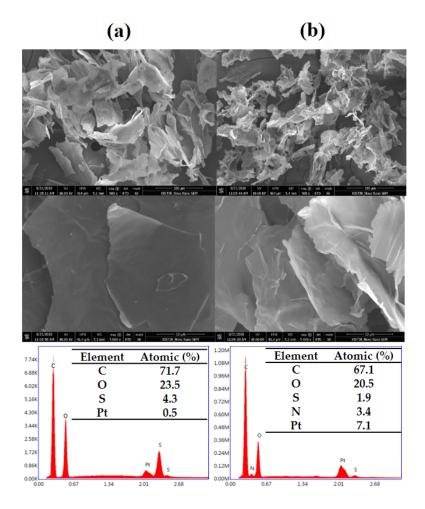


Figure S1. FE-SEM images and EDX of (a) GO, and (b) PDA-rGO powders.

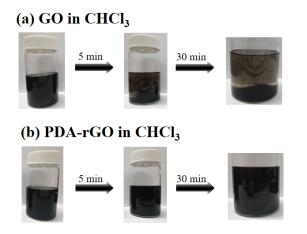
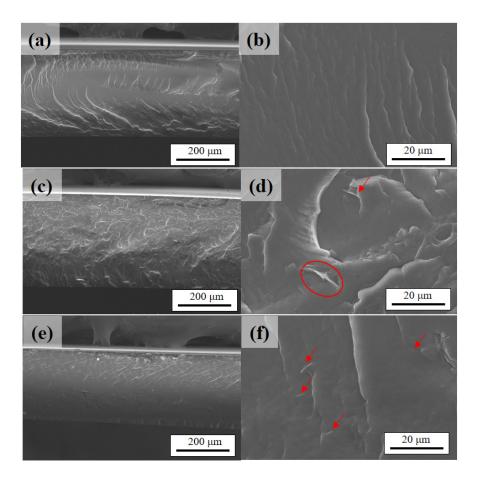


Figure S2. Photo images showing dispersion stability of (a) GO, and (b) PDA-rGO in chloroform.

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 $\textbf{Figure S3.} \ \text{FE-SEM images of (a-b) PU, (c-d) 1 wt\% GO/PU, and (e-f) 1 wt\% PDA-rGO/PU nanocomposites. } \\$