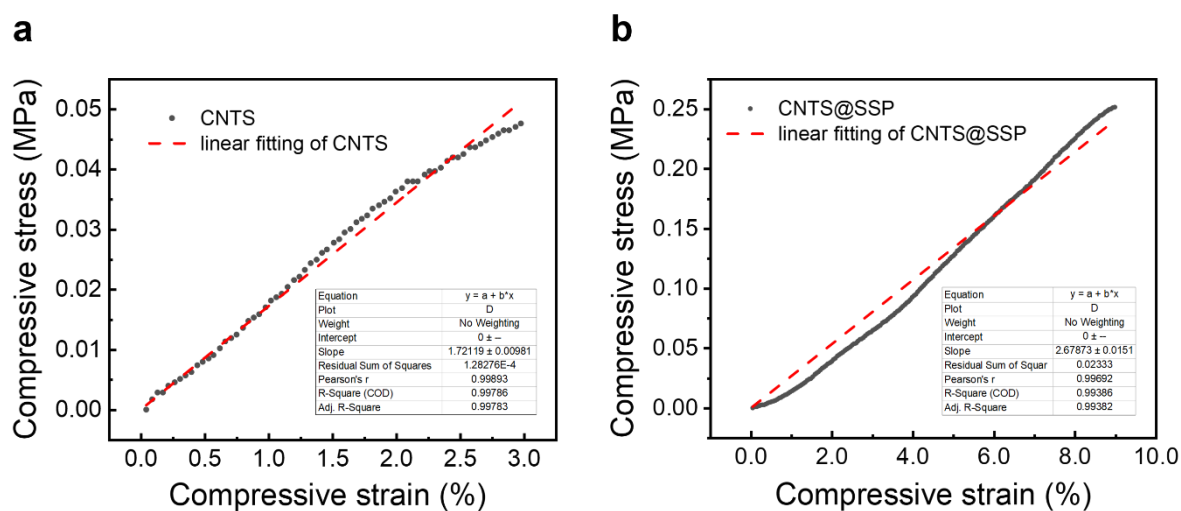
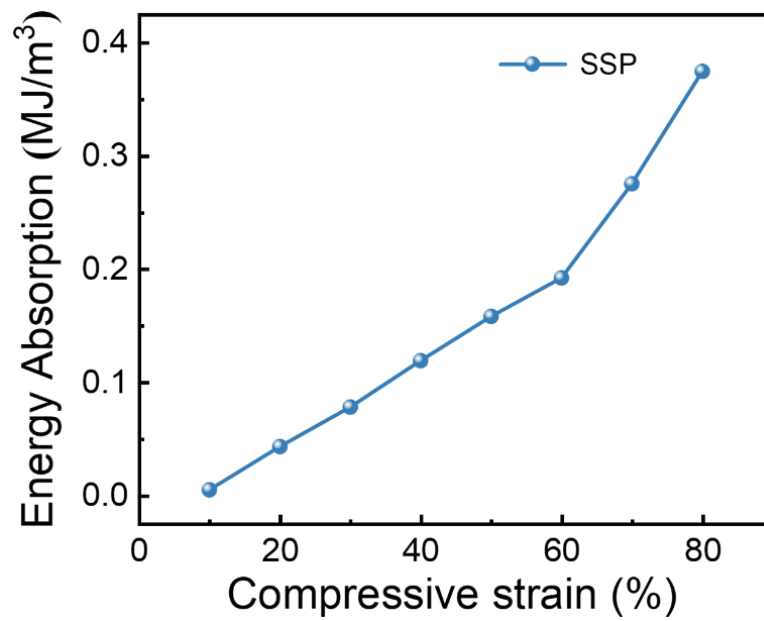


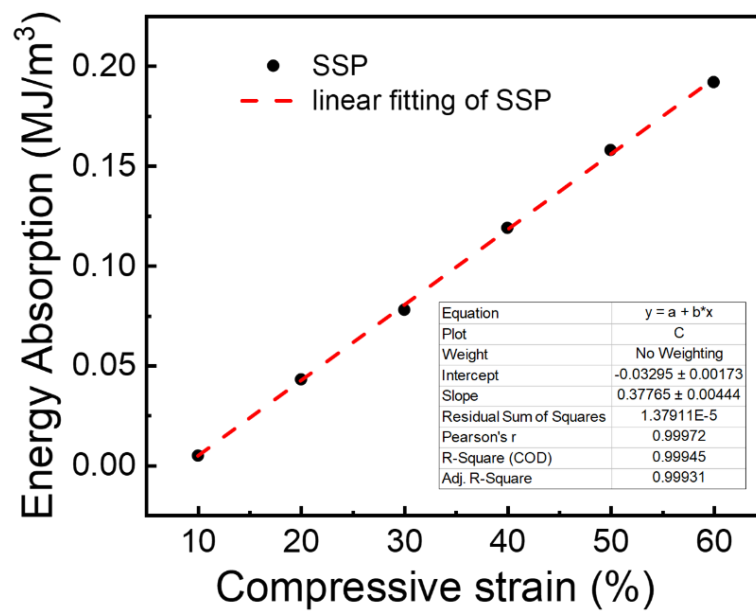
Supplementary Figure 1. Photograph of the as-prepared CNTS@SSP composites with various shapes. Scale bar is 1 cm.



Supplementary Figure 2. (a) The compressive stress-strain curve of CNTS was linearly fitted at the strain of 0-3 %; (b) The compressive stress-strain curve of CNTS@SSP was linearly fitted at the strain of 0-9 %.



Supplementary Figure 3. Energy absorption curve of SSP at 10 % - 80 % compressive strain.



Supplementary Figure 4. The energy absorption curve of SSP was linearly fitted at the compressive strain of 10 % - 60 %.