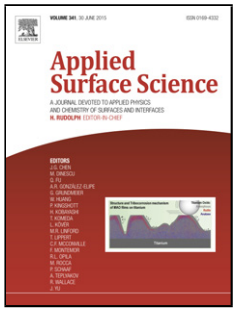

Title: Surface modification of halloysite nanotubes by vulcanization accelerator and properties of styrene-butadiene rubber nanocomposites with modified halloysite nanotubes

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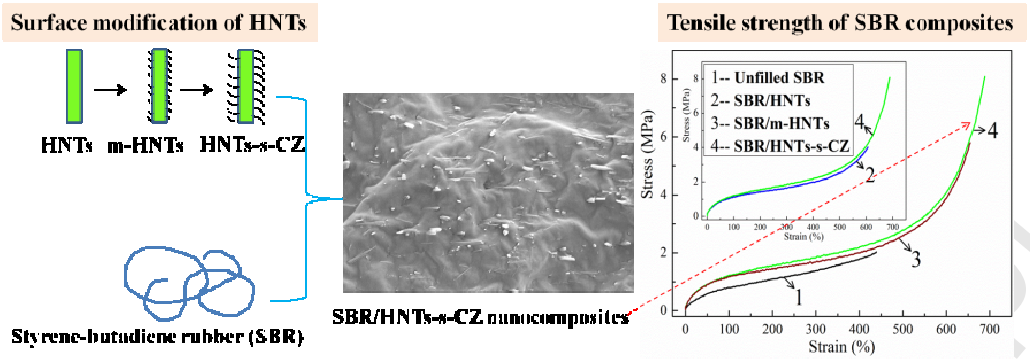

1. Vulcanization accelerant was used to modify halloysite nanotubes (HNTs);

2. The modified HNTs reduced the activation energy of vulcanization;

3. Strong filler–rubber interaction was achieved in rubber/modified HNTs composites;

4. The modified HNTs exhibited excellent reinforcement effect on rubber.

Surface modification of halloysite nanotubes by vulcanization accelerator and properties of styrene-butadiene rubber nanocomposites with modified halloysite nanotubes

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ABSTRACT: Vulcanization accelerant N-cyclohexyl-2-benzothiazole sulfenamide (CZ) was used as a surface modifier and chemically grafted on the surface of