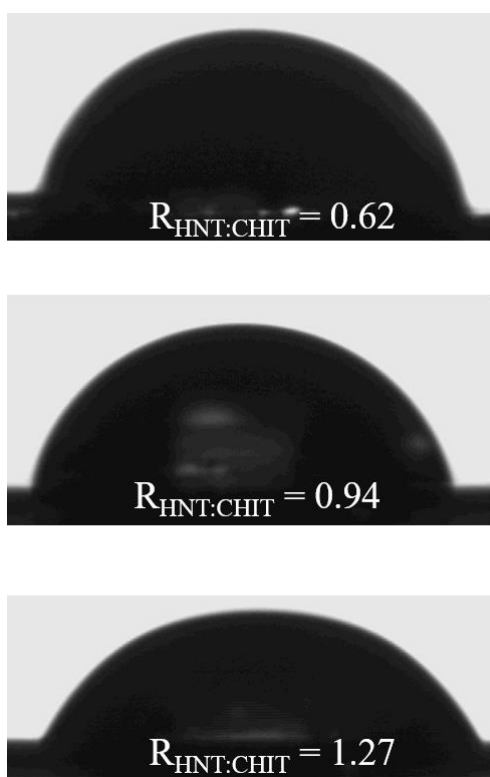


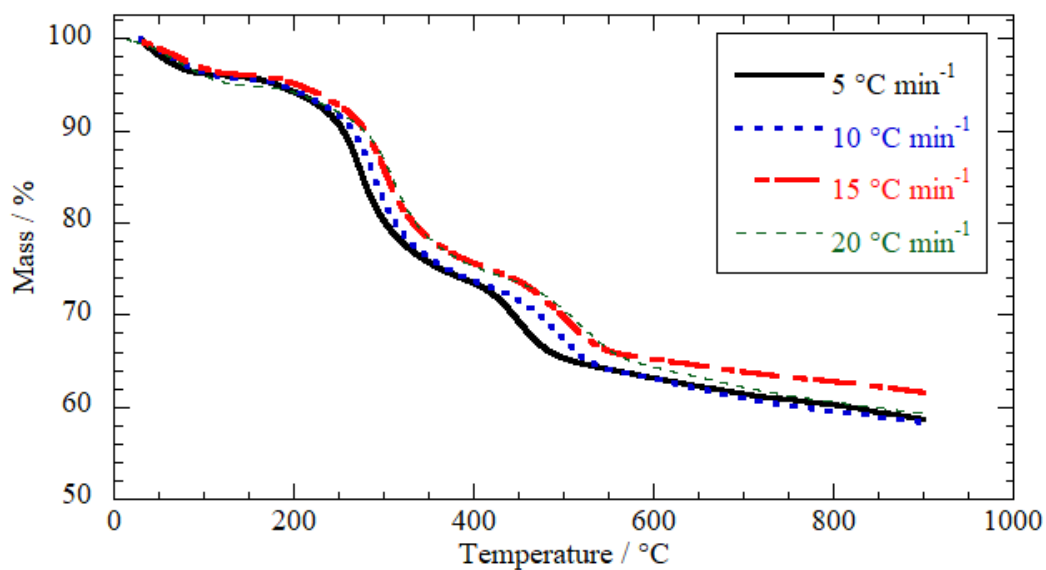
## Halloysite nanotubes sandwiched between chitosan layers: a novel bionanocomposite with multilayer structure

Vanessa Bertolino, Giuseppe Cavallaro\*, Giuseppe Lazzara, Stefana Milioto, Filippo Parisi

Dipartimento di Fisica e Chimica, Università degli Studi di Palermo, Viale delle Scienze, pad. 17, 90128 Palermo, Italy. *giuseppe.cavallaro@unipa.it*



**Figure S1.** Optical images of a water droplet just after the deposition on chitosan/HNTs nanocomposites with variable ratio between HNTs and the total amount of chitosan.



**Figure S2.** Thermogravimetric curves of chitosan/HNTs nanocomposite ( $R_{\text{HNT:CHIT}} = 1.27$ ) at variable heating rate.

**Table S1.** Mass loss in the temperature 25-150 °C for chitosan and chitosan/HNTs nanocomposites.

$R_{\text{HNT:CHIT}}$	$ML_{150}^* / \text{wt}\%$
0	7.83
0.33	8.39
0.48	7.94
0.62	7.02
0.94	7.43
1.27	4.32

\*taken from TG measurements performed at  $10 \text{ }^\circ\text{C min}^{-1}$ .