

Supporting information

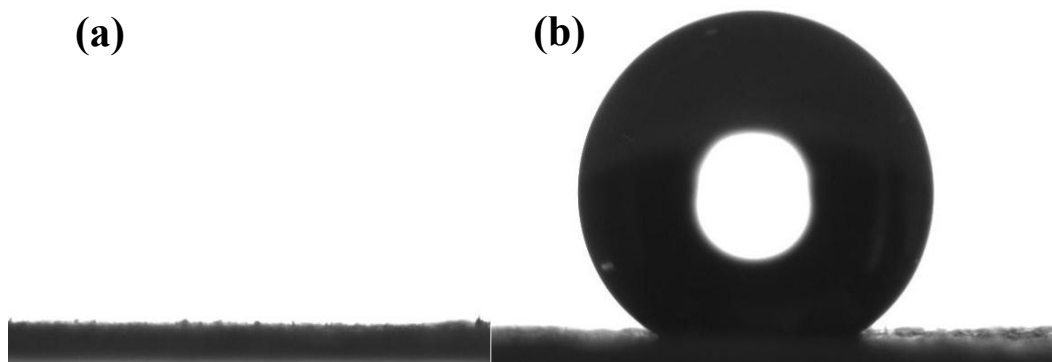


Figure S1. (a) Image of the oil CA for the PDMS-HNTs, (b) picture of the water CA for the PDMS-HNTs.

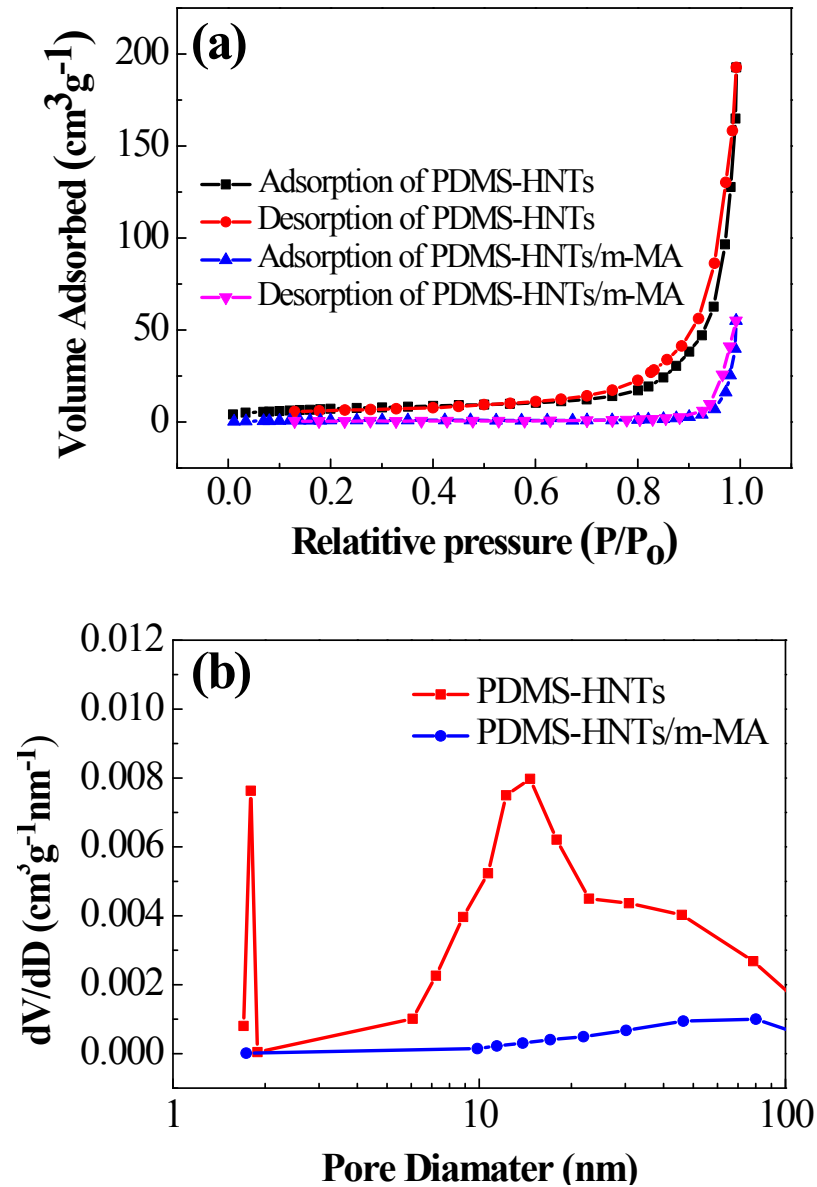


Figure S2. (a) N_2 adsorption-desorption isotherms of PDMS-HNTs and PDMS-HNTs/m-MA composite measured at 77.3 K. (b) pore size distribution curves of PDMS-HNTs and PDMS-HNTs/m-MA composite.

Table S1. Abbreviations

Abbreviations	Full name
PDMS	polydimethylsiloxane
HNTs	Halloysite nanotubes
p-HNTs	purified HNTs
PDMS-HNTs	PDMS modified HNTs
MA	Myristic acid
PA	palmitic acid
SA	stearic acid (SA)
p-HNTs/m-paraffin wax	p-HNTs/paraffin wax composite by melt-impregnation method
PDMS-HNTs/m-paraffin wax	PDMS-HNTs/paraffin wax composite by melt-impregnation method
p-HNTs/m-MA	p-HNTs/MA composite by melt-impregnation method
PDMS-HNTs/m-MA	PDMS-HNTs/MA composite by melt-impregnation method
p-HNTs/m-PA	p-HNTs/PA composite by melt-impregnation method
PDMS-HNTs/m-PA	PDMS-HNTs/PA composite by melt-impregnation method
p-HNTs/m-SA	p-HNTs/SA composite by melt-impregnation method
PDMS-HNTs/m-SA	PDMS-HNTs/SA composite by melt-impregnation method
CVD	chemical vapor deposition method
p-HNTs/v-MA	p-HNTs/MA composite by CVD method
PDMS-HNTs/v-MA	PDMS-HNTs/MA composite by CVD method
p-HNTs/v-PA	p-HNTs/PA composite by CVD method
PDMS-HNTs/v-PA	PDMS-HNTs/PA composite by CVD method