Supplementary Information

Multifunctional reduced graphene oxide coated clothes for oil/water separation and antibacterial application

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Physical parameters of clothes

Weight of clothes:

Weight of 2x2 cm sparse cloth piece = 61.5 mg

Weight of 2x2 cm dense cloth piece = 14.2 mg

Water absorption capacity:

Pristine dense cloth: 11.063 g/g

Pristine sparse cloth: 1.8975 g/g

Diameter of fibers:

Pristine dense cloth: ~12 μm

Pristine sparse cloth: ~18.5 μm

Percentage increase in weight after 20 times deposition of GO:

Dense cloth: 20%

Sparse cloth: 4.33%

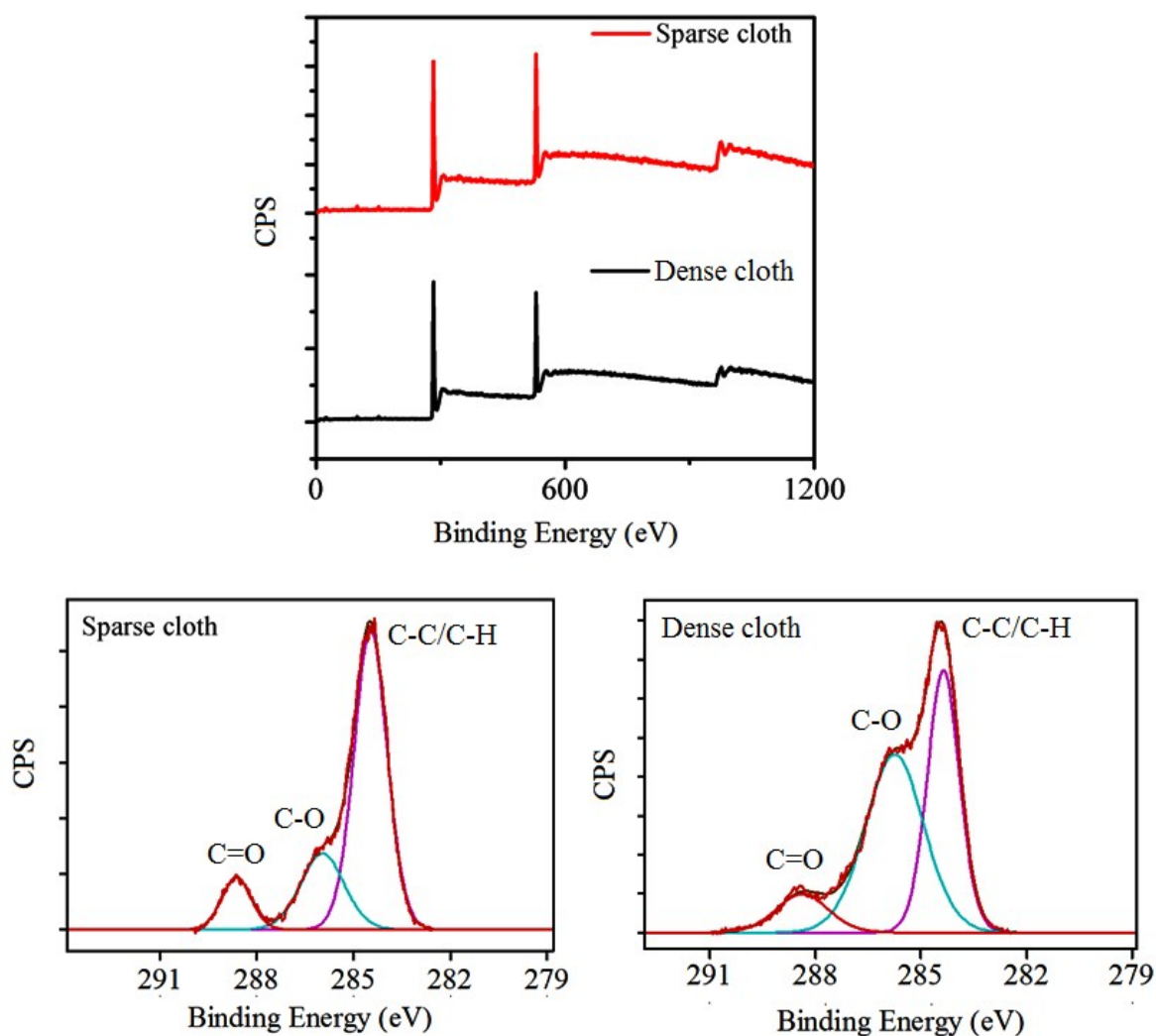**XPS analysis of pristine dense cloth (cloth-A) and sparse cloth (cloth-B)**

Figure S1 XPS of Uncoated cloth samples

Table-1 Atomic percentage of C and O in uncoated cloth samples

Sample name	C (%)	O (%)
Dense cloth (Cloth-A)	80.86	19.14
Sparse cloth (Cloth-B)	78.93	21.07

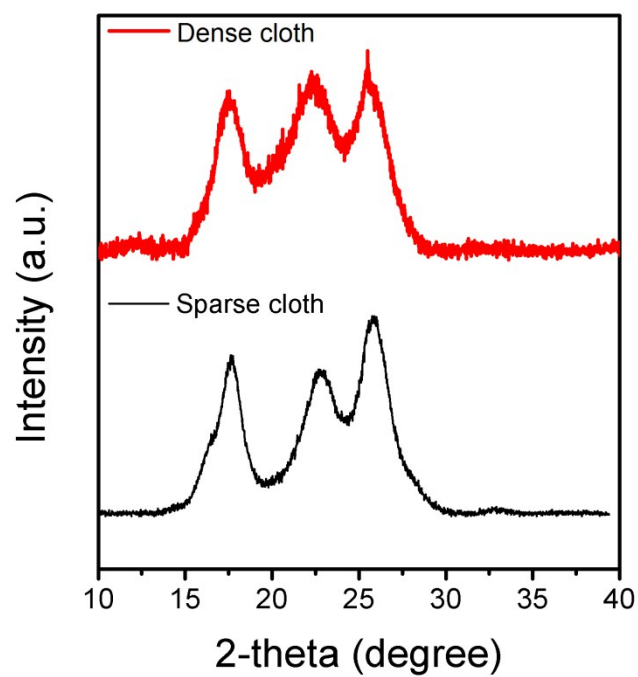**XRD analysis of the pristine cloth**

Figure S2 XRD of pristine cloth samples

XRD patterns of pristine clothes exhibit three common major peaks at 17.5, 22.6 and 25.8° suggesting that both cloth samples have same crystalline nature.