

## Technical data

Categories No: TN3DRGO

Name: Three-Dimensional Graphene

Purity: >60 wt% (Containing ~40 wt% Fe nanoparticles anchored on  
graphene sheet)

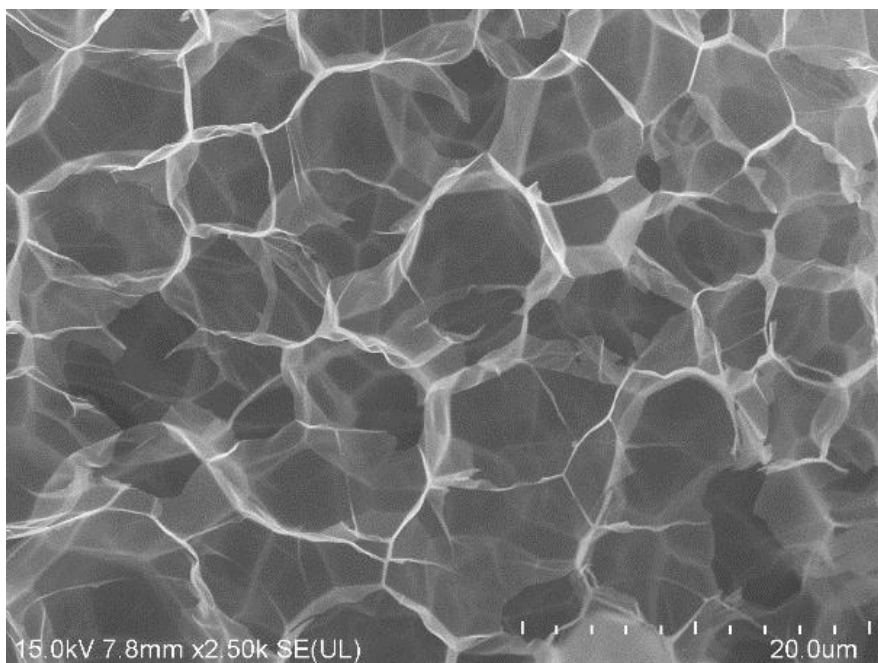
layers: 3-4

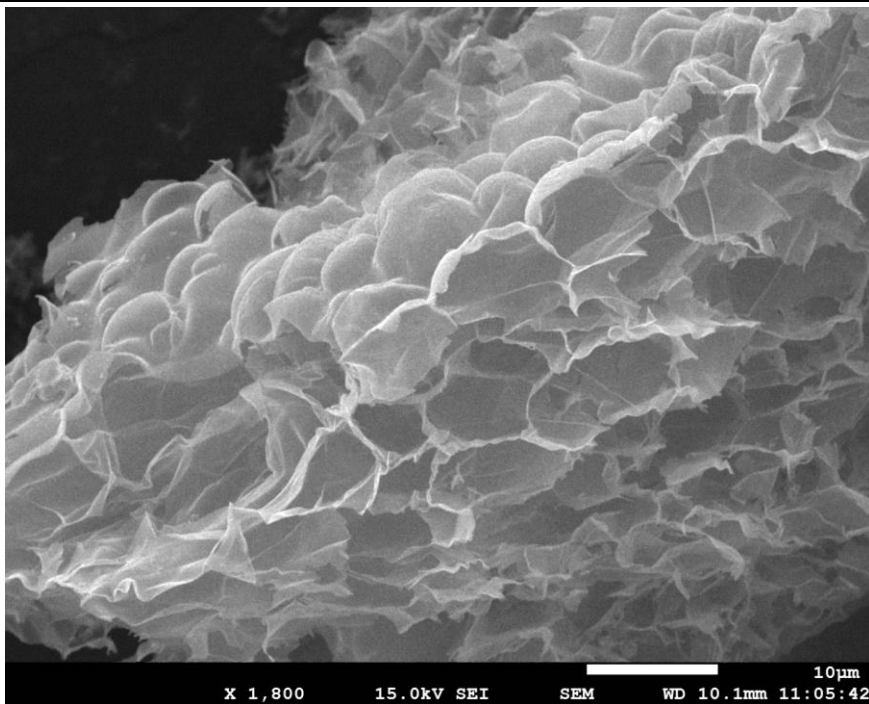
Thickness: <1.4 nm

Scale of graphene sheet: 6-8  $\mu\text{m}$

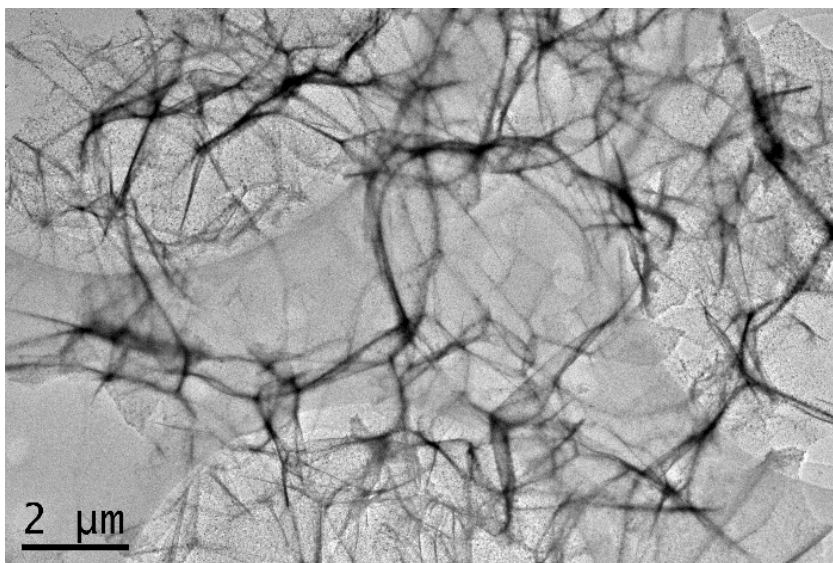
Specific Surface Area: 250-350 $\text{m}^2/\text{g}$

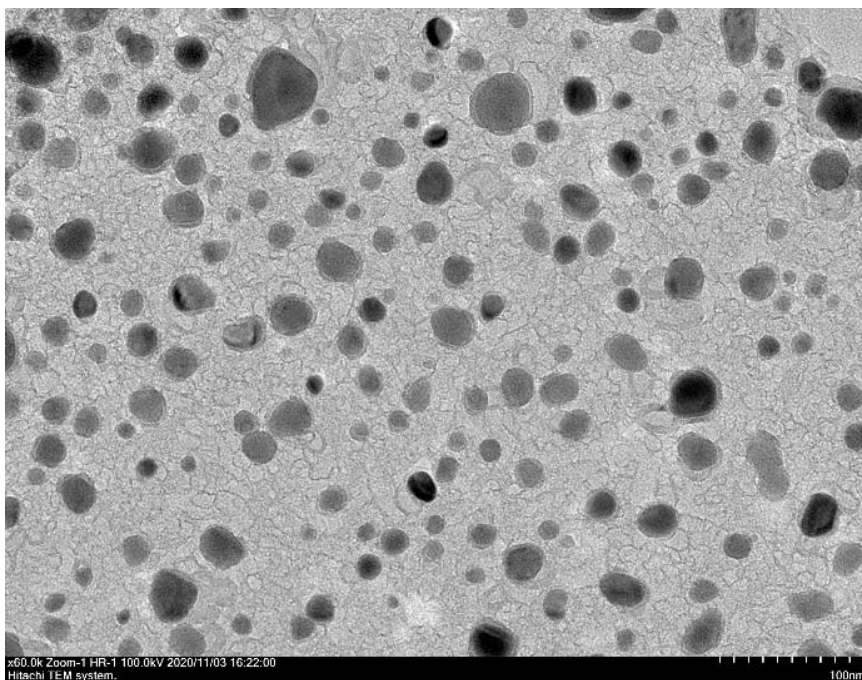
### 1、SEM of Three-Dimensional Graphene



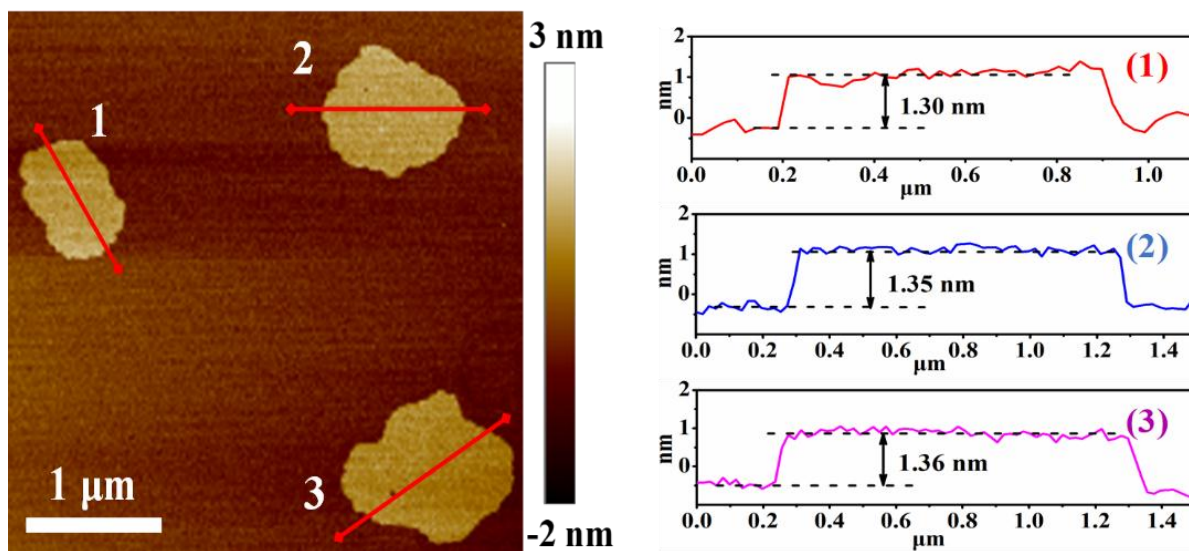


## 2、TEM of Three-Dimensional Graphene

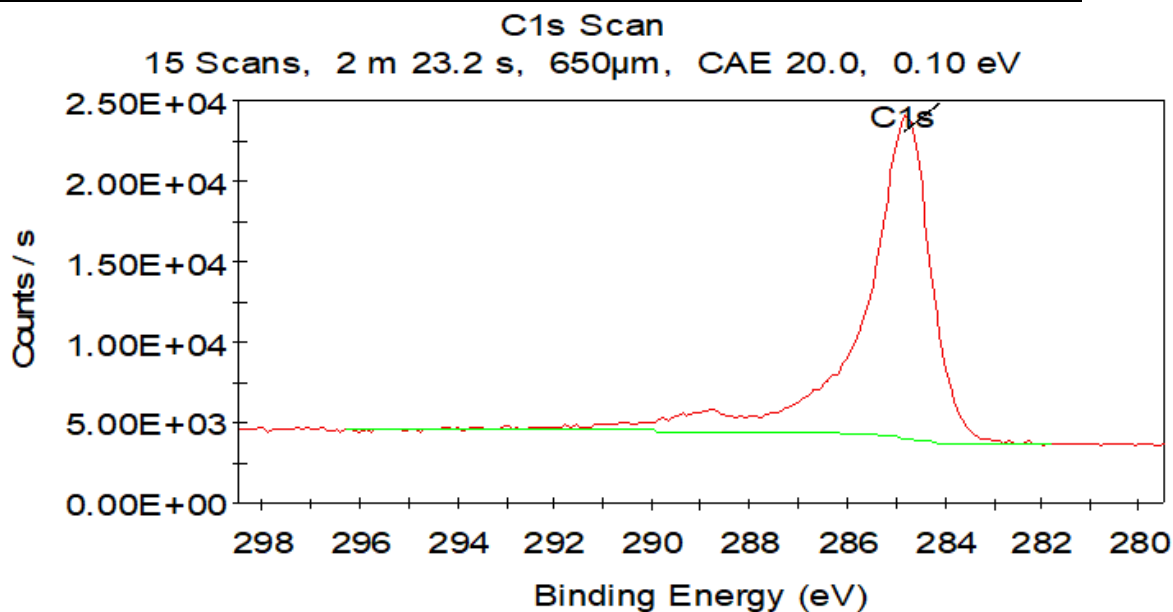




### 3. AFM of Three-Dimensional Graphene



### 4. XPS of Three-Dimensional Graphene



### 【Application instruction】

Potential Applications of **Three-Dimensional Graphene with Fe<sub>3</sub>C**

Additives in polymers

Electrocatalysts, eg. Oxygen Reduction Reaction (ORR)

Electromagnetic-wave absorption and shielding

Energy conversion

Hydrogen storage

Supercapacitor

The carrier of S cathode for Li-S batteries