Technical Data Sheet

ACS Material Graphene Oxide

(Staudenmaier Method)

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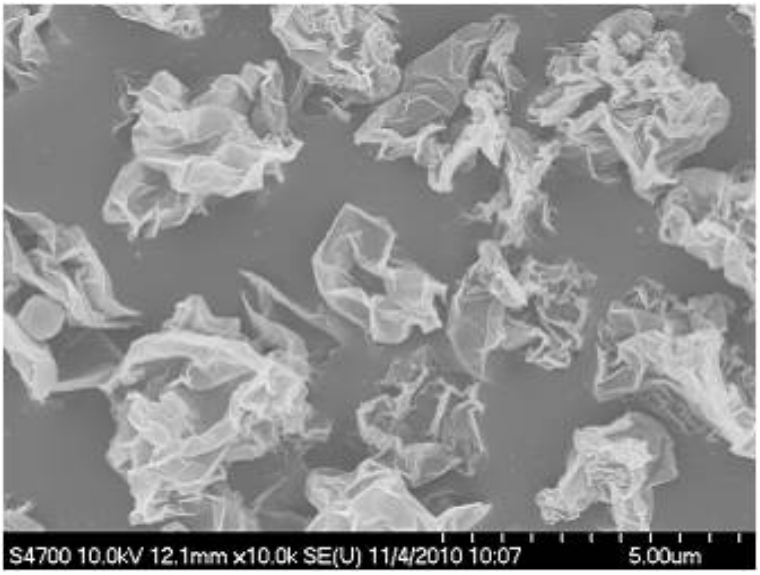
Revision: 063017

1. Preparation Method

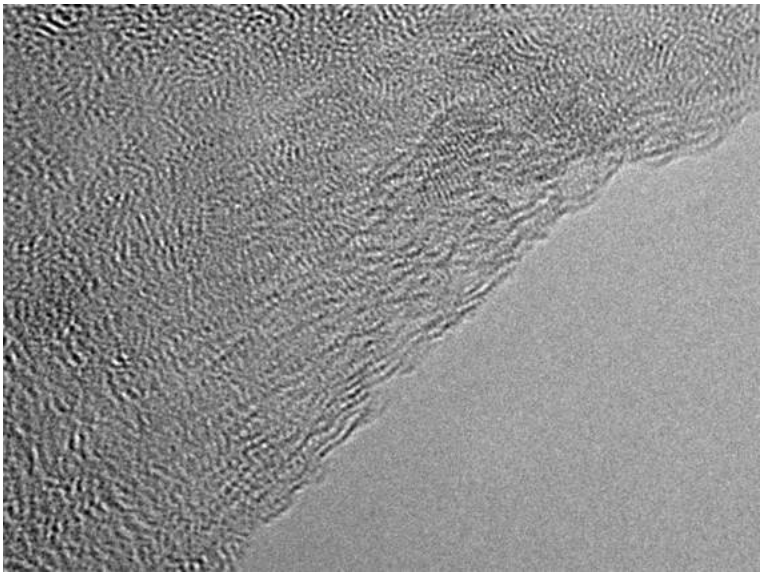
Staudenmaier Method

2. Characterizations

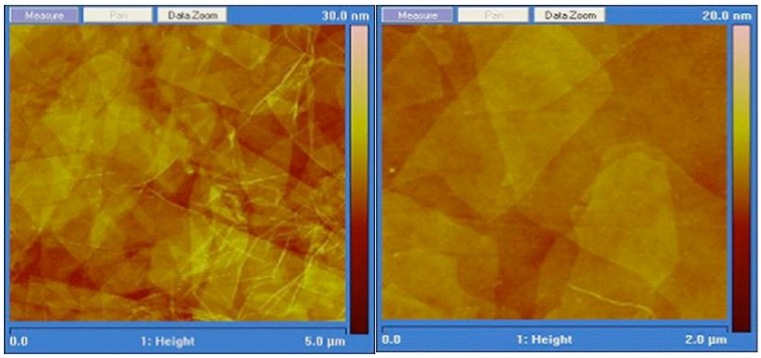
Appearance:	Grey Green Powder
Diameter:	1-15 μm
Thickness:	0.8-1.2 nm
Specific Surface Area (SSA):	5-10 m^2/g
Oxygen content:	~35 wt.%



Typical SEM Image of ACS Material Graphene Oxide (S Method)



Typical TEM Image of ACS Material Graphene Oxide (S Method)



AFM Analysis of ACS Material Graphene Oxide (S Method)

XPS Results of graphene oxide

Element	Weight Content %
C 1s	65.71
N 1s	0.5
O 1s	33.8

3. Application Fields

1) Catalyst
2) Supercapacitors
3) Solar energy
4) Graphene semiconductor chips
5) Conductive graphene film
6) Graphene computer memory
7) Biomaterials
8) Transparent conductive coatings