



Technical Data Sheet

ACS Material Graphene on Lacey Carbon 300 Mesh Copper TEM Grids

Table of Contents

[1 – Preparation Method](#)

[2 – Characterizations](#)

[3 – Application Fields](#)

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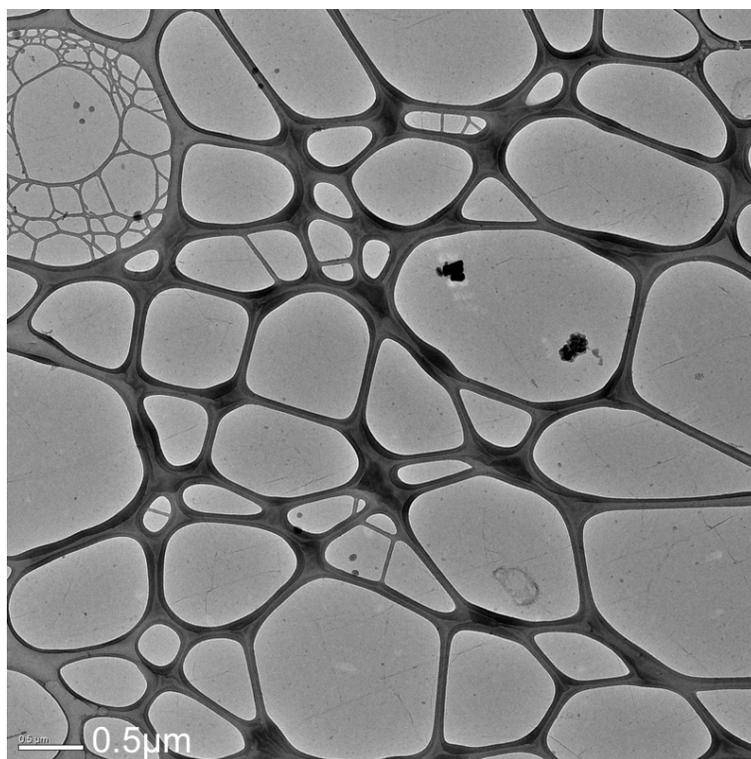
1. Preparation Method

Chemical Vapor Deposition (CVD) Method

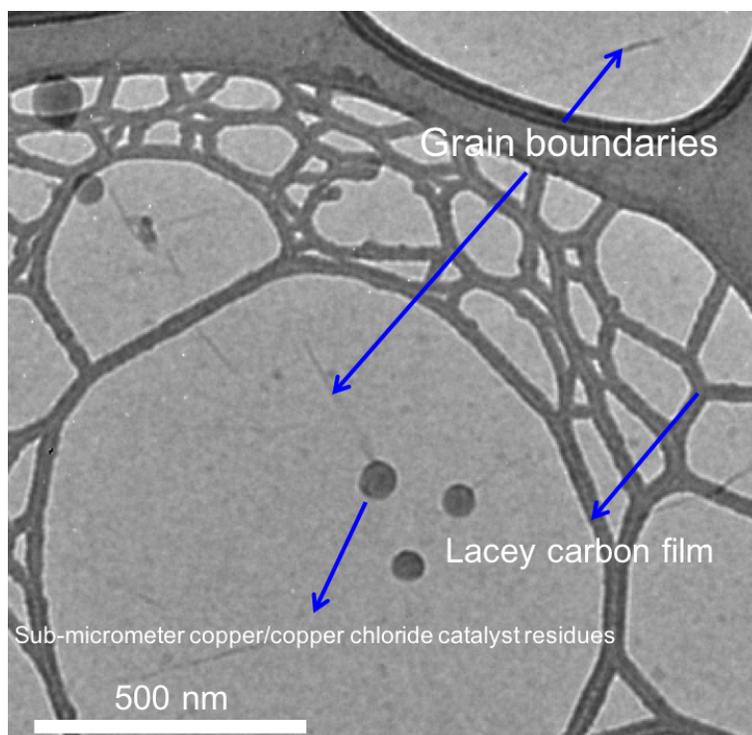
2. Characterizations

The graphene film appears as a near-transparent to light-grey film on the surface of the Lacey Carbon mesh on a red-brown colored copper TEM grid.

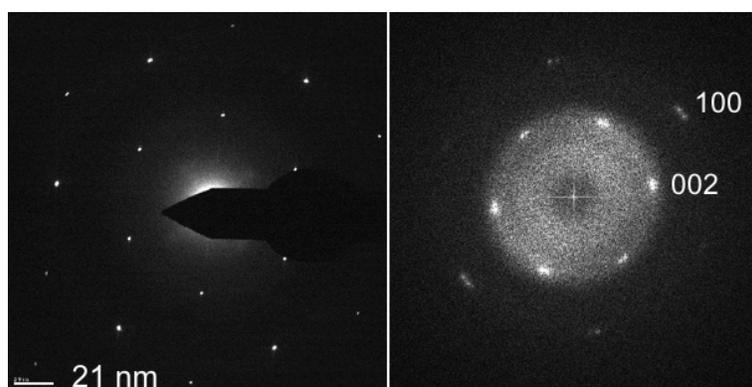
Type	Thickness of the Graphene	Transparency	TEM Grid/AFM Substrate	Support Film
1 Layer	~0.35 nm	~96.4 %	2000 Mesh Copper Grid	N/A
2 Layers	~0.7 nm	~92.7 %	2000 Mesh Copper Grid	N/A
3-5 Layers	1.0-1.7 nm	~85.8-90.4 %	2000 Mesh Copper Grid	N/A
6-8 Layers	2.1-2.8 nm	~78.5-83.2 %	2000 Mesh Copper Grid	N/A



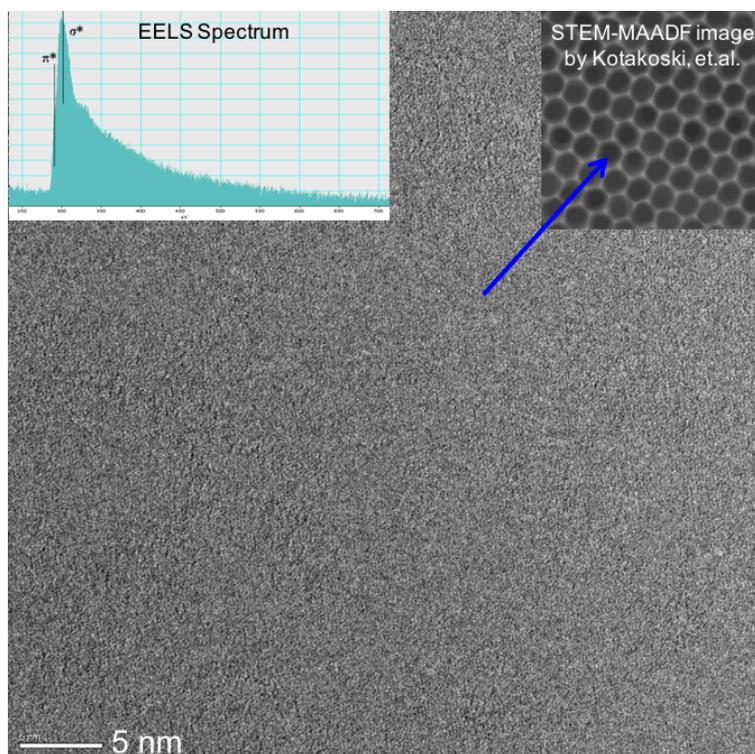
Typical TEM Image of ACS Material Graphene on Lacey Carbon 300 Mesh Copper TEM Grids



Typical TEM Image of ACS Material Graphene on Lacey Carbon 300 Mesh Copper TEM Grids



Left: SAED, Right: FFT of HR-TEM Image



HR-TEM image of ACS Material Graphene on Lacey Carbon 300 Mesh Copper TEM Grids

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

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