

GRAPHENE FLOWER[®]

The few layer GRAPHENE

Characteristics of GRAPHENE FLOWER[®]

- Unique synthetic method without substrate and catalysis
- High purity, high crystalline and high productivity
- Dimension and stacking number are controllable
- Dispersions with several type of solvent are available

Application of GRAPHENE FLOWER[®]

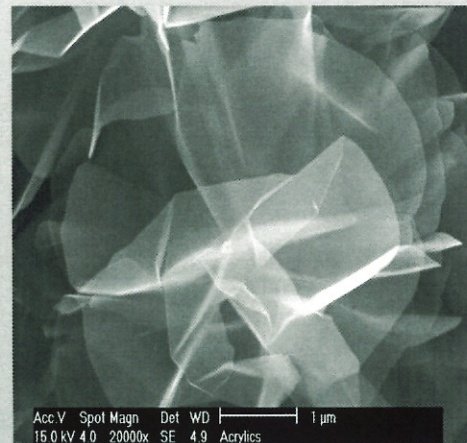
- Transparent conductive film and conductive film
- Secondary battery, Capacitor and Fuel cell
- Filler for high thermal conductive materials
- Raw materials for printed electronics



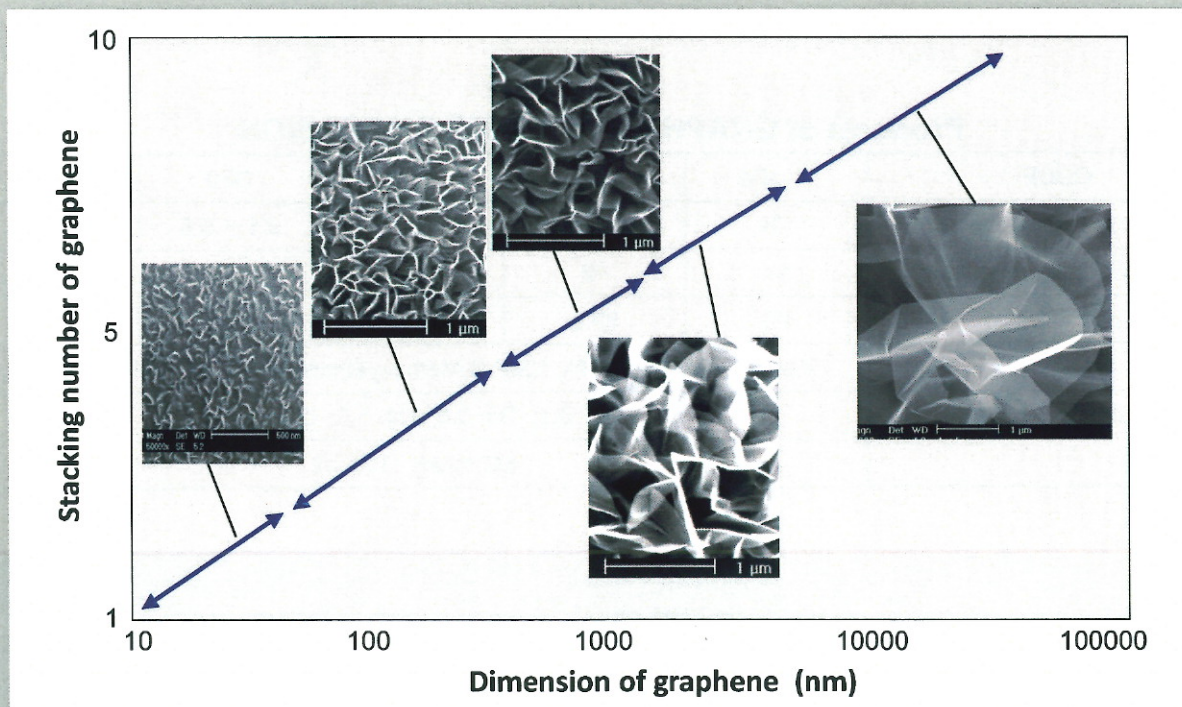
GRAPHENE FLOWER DISPERSION



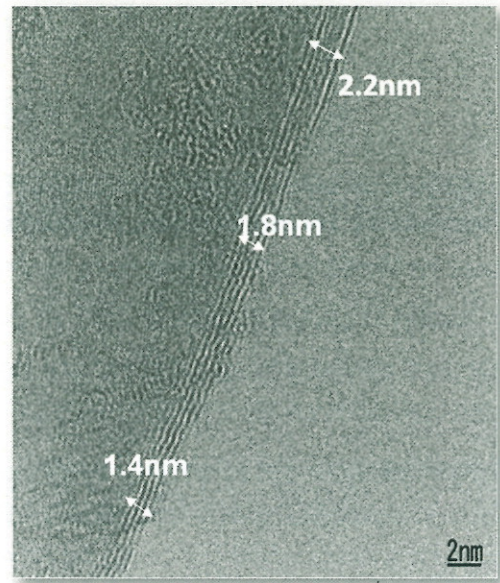
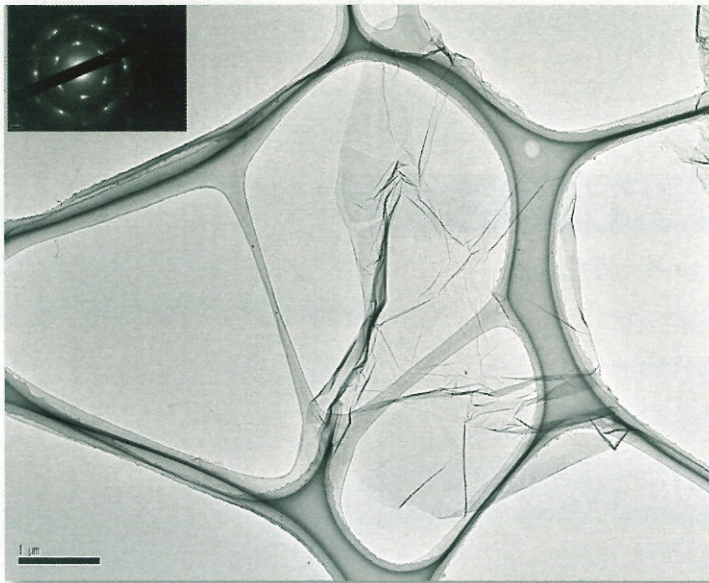
GRAPHENE FLOWER as grown



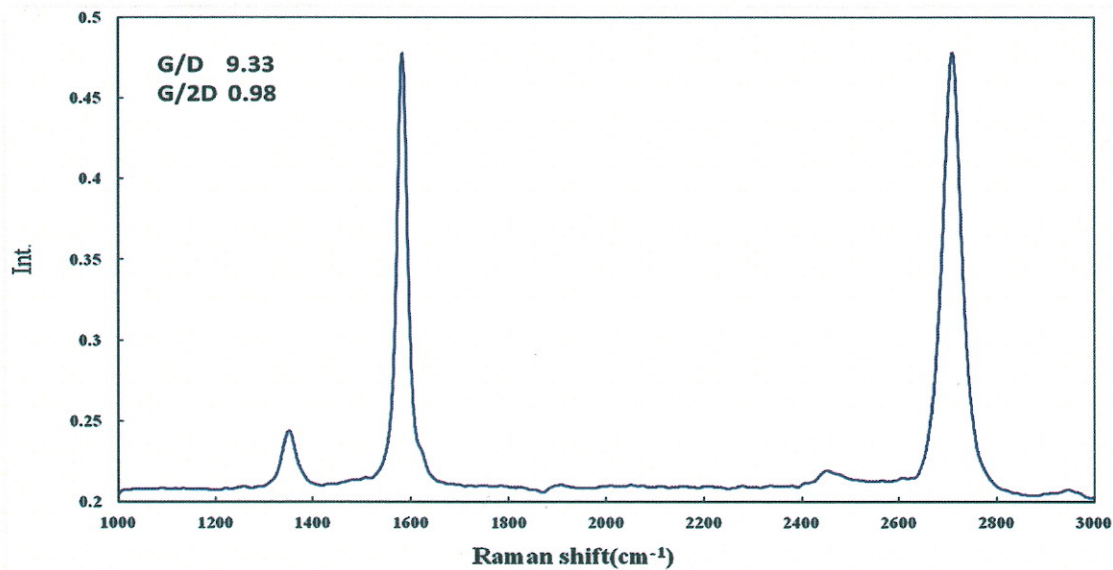
Surface of GRAPHENE FLOWER



GRAPHENE FLOWER[®]



Graphene dispersed in GRAPHENE FLOWER DISPERSION (TEM)



Raman spectroscopy of Graphene dispersed in GRAPHENE FLOWER DISPERSION

Products of GRAPHENE FLOWER DISPERSION

CODE	GF4	GF7	GF8	GF9	GF10
Graphene Dimension (μm)	10<	1 – 3	0.5 – 1	0.1 – 0.5	< 0.1
Graphene Thickness (nm)	5<	~2	~1	~0.7	~0.5
Carbon purity (wt%)	99	99.9	99.9	99.9	99.9
Solvent type	Water + surfactant, IPA, NMP, 2-Methoxyethanol, PGMEA, DMF, MEK ,etc				
Concentration (mg/ml)	D2: 0.1, D3: 0.5, D4: 1.0, DS: option				
Volume	Minimum 100 ml				