



Technical Data Sheet

ACS Material Single-Walled Carbon Nanohorns

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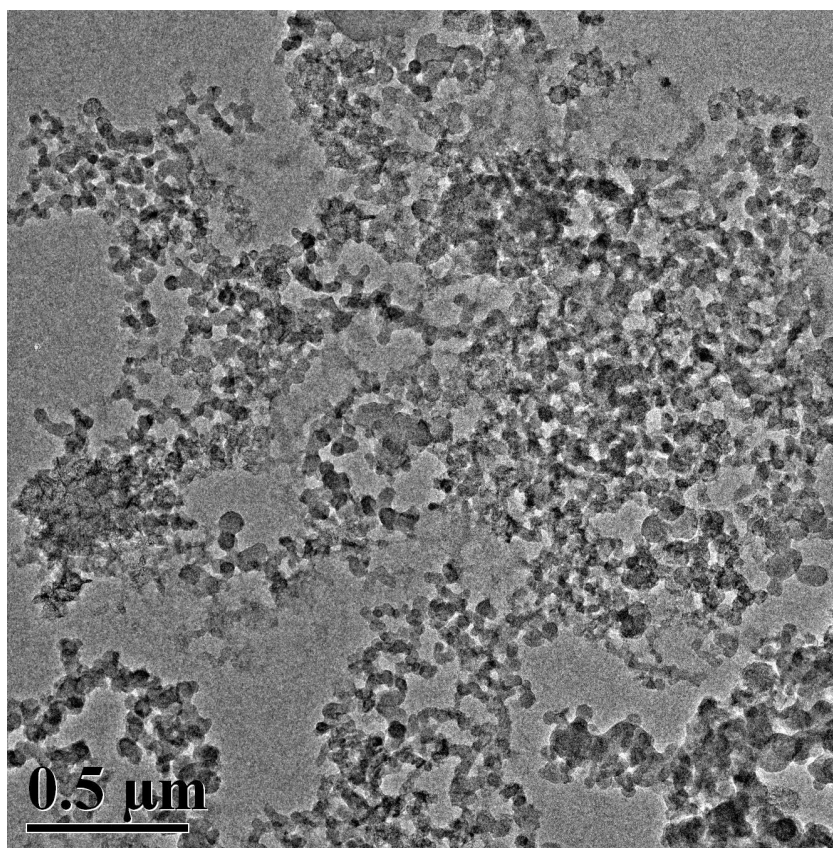
Revision: 030217

1. Preparation Method

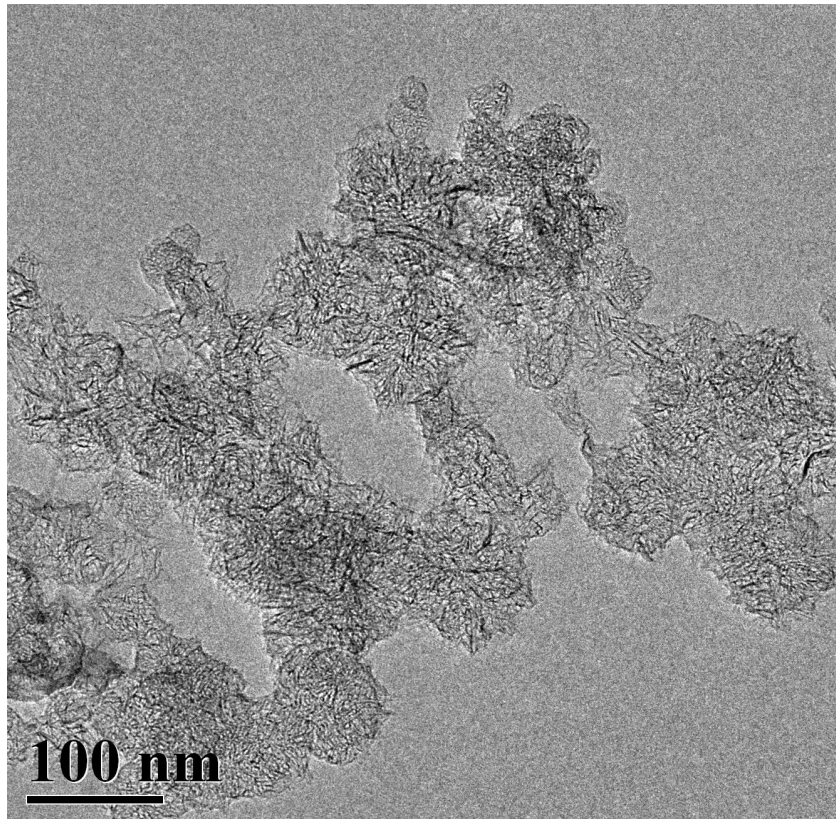
Arc discharge method

2. Characterizations

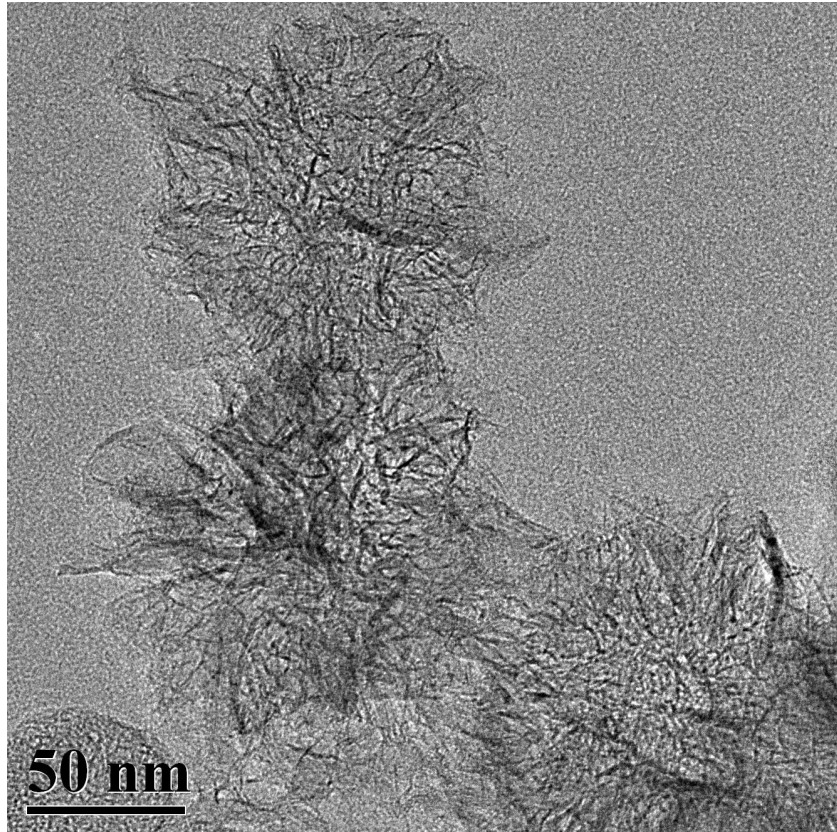
Composition:	Carbon
Appearance:	Black powder
Purity:	>97%
Aggregate Diameter:	80-100 nm



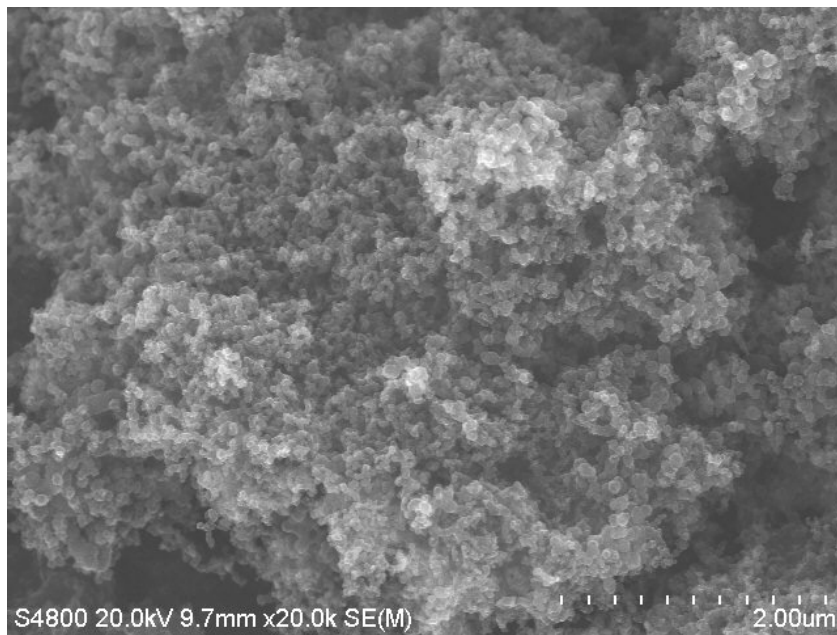
Typical TEM Image of ACS Material Single-Walled Carbon Nanohorns



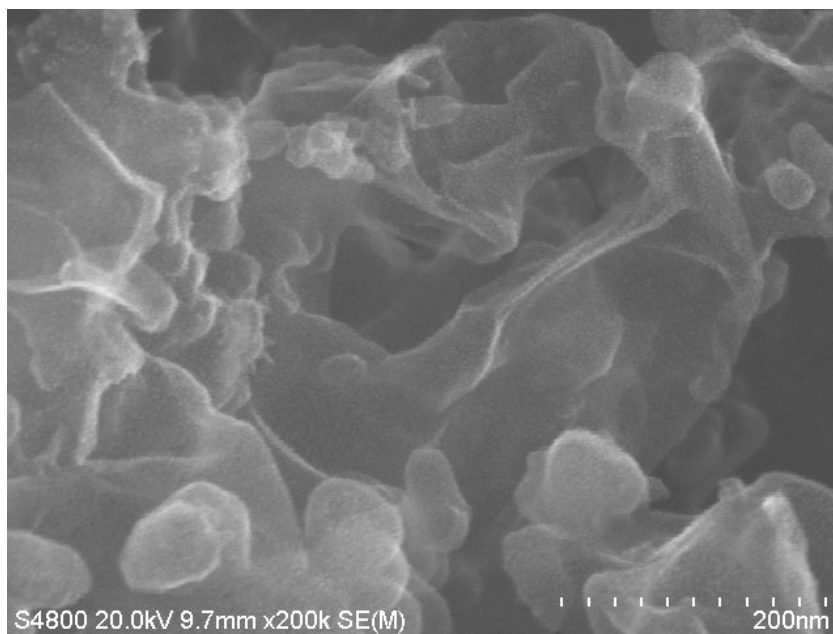
Typical TEM Image for ACS Material Single-Walled Carbon Nanohorns



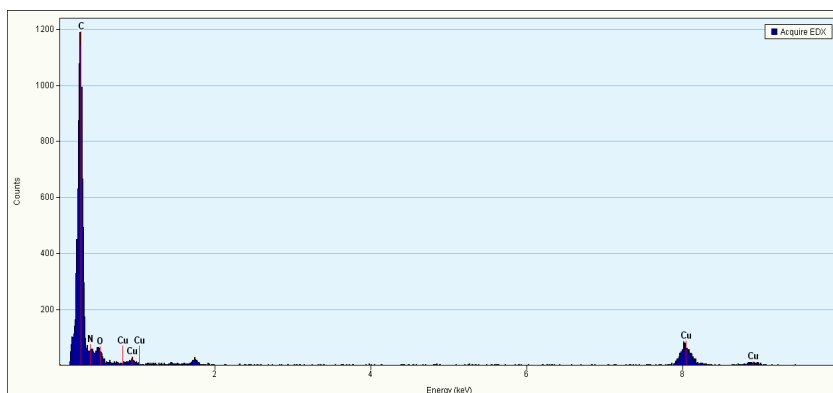
Typical TEM Image for ACS Material Single-Walled Carbon Nanohorns



Typical SEM Image for ACS Material Single-Walled Carbon Nanohorns

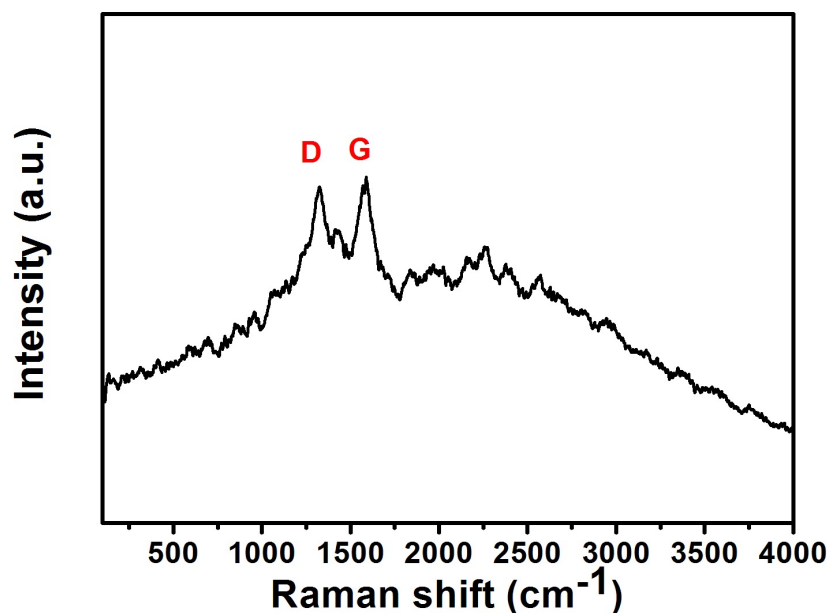


Typical SEM Image for ACS Material Single-Walled Carbon Nanohorns

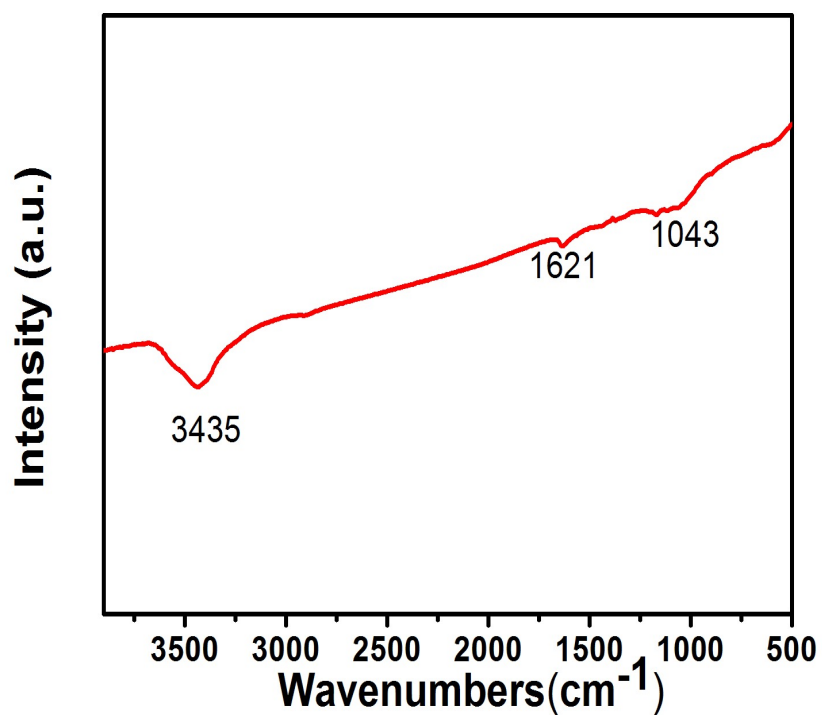


Element	Weight %	Atomic %	Uncert. %	Detector Correction	k-Factor
C(K)	95.77	96.57	0.43	0.28	3.601
N(K)	2.07	1.79	0.07	0.28	3.466
O(K)	2.14	1.62	0.05	0.51	1.889

Typical EDX for ACS Material Single-Walled Carbon Nanohorns



Typical Raman spectra for ACS Material Single-Walled Carbon Nanohorns



Typical Infrared Spectroscopy for ACS Material Single-Walled Carbon Nanohorns

3. Application Fields

- 1) Fuel cells
- 2) Gas storage
- 3) Drug carriers

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