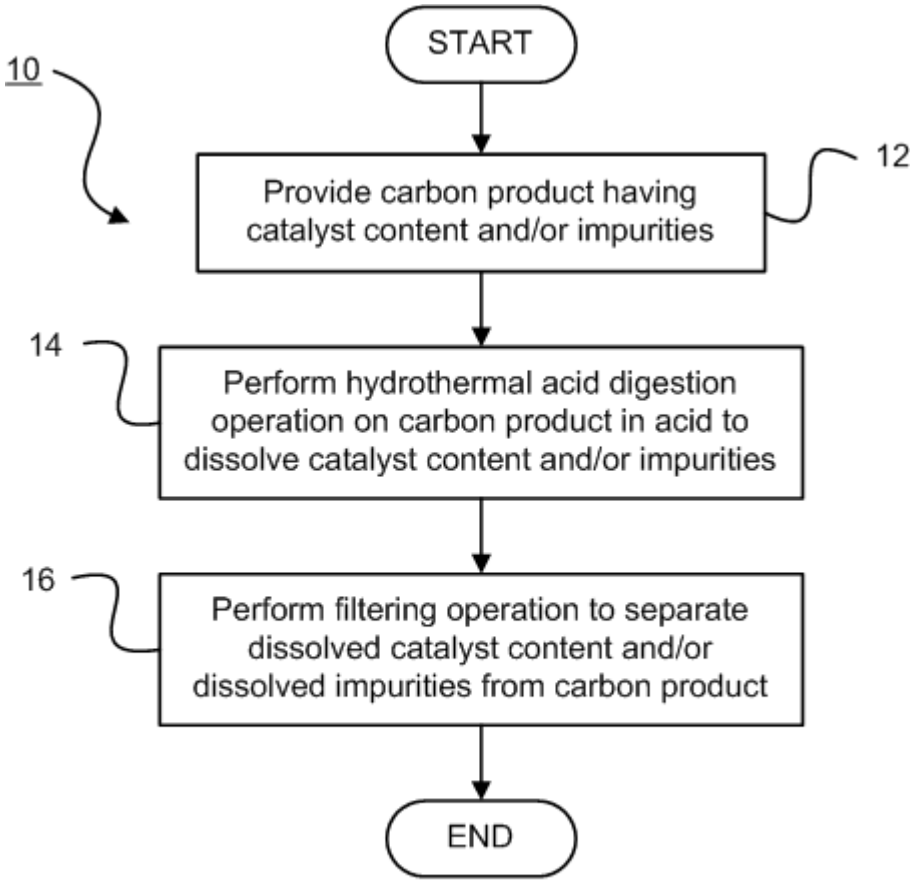
START
10
Provide carbon product having catalyst content and/or impurities
12
14
Perform hydrothermal acid digestion operation on carbon product in acid to dissolve catalyst content and/or impurities
16
Perform filtering operation to separate dissolved catalyst content and/or dissolved impurities from carbon product
END

FIG. 1

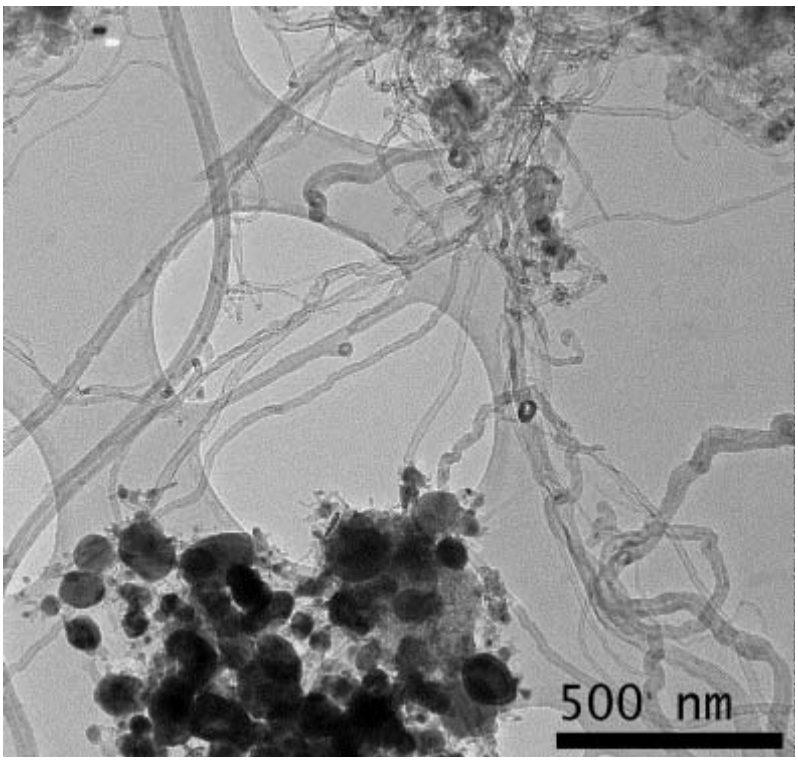

FIG. 2A

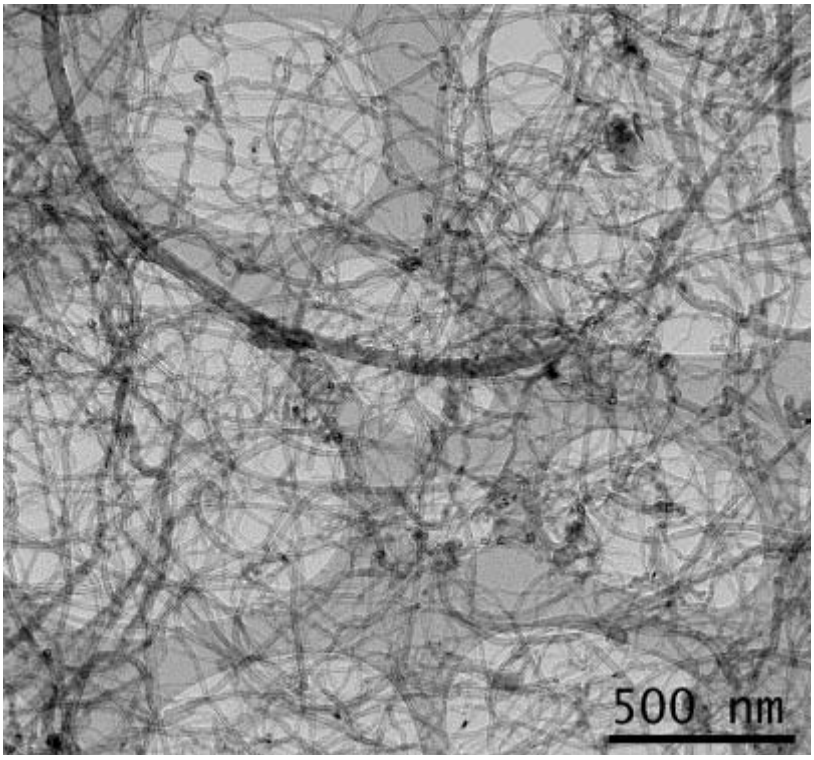

FIG. 2B

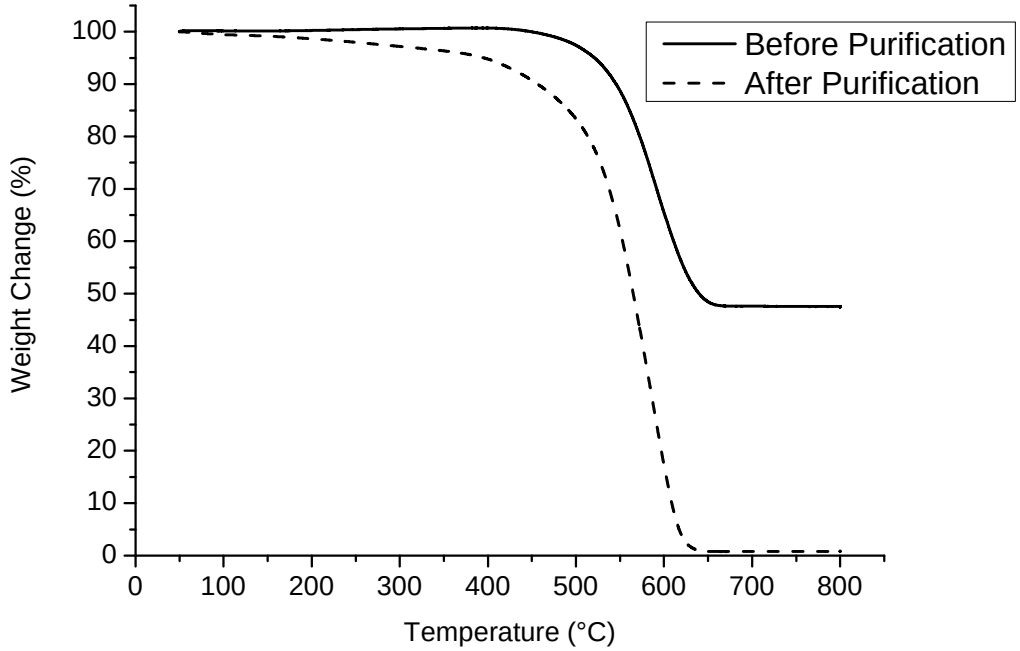
Before Purification
After Purification
Weight Change (%)
Temperature (°C)
100
90
80
70
60
50
40
30
20
10
0
0
100
200
300
400
500
600
700
800

FIG. 3

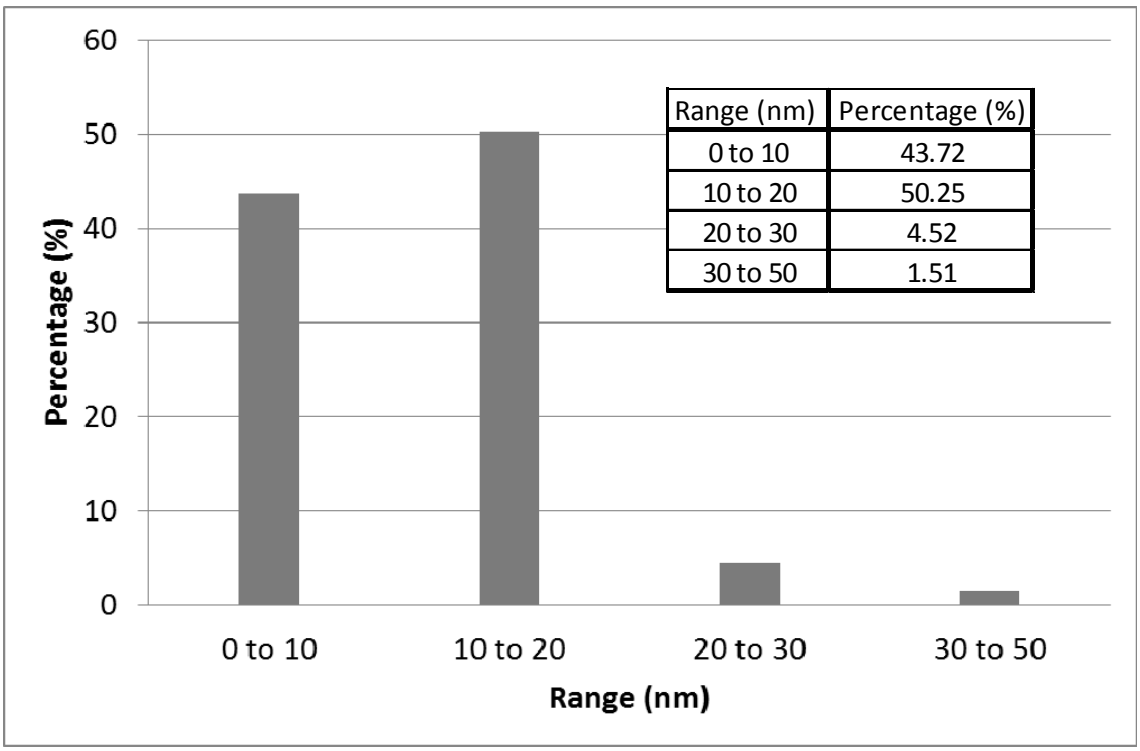
Range (nm) | Percentage (%)
0 to 10 | 43.72
10 to 20 | 50.25
20 to 30 | 4.52
30 to 50 | 1.51
Percentage (%)
Range (nm)
60
50
40
30
20
10
0
0 to 10
10 to 20
20 to 30
30 to 50

FIG. 4

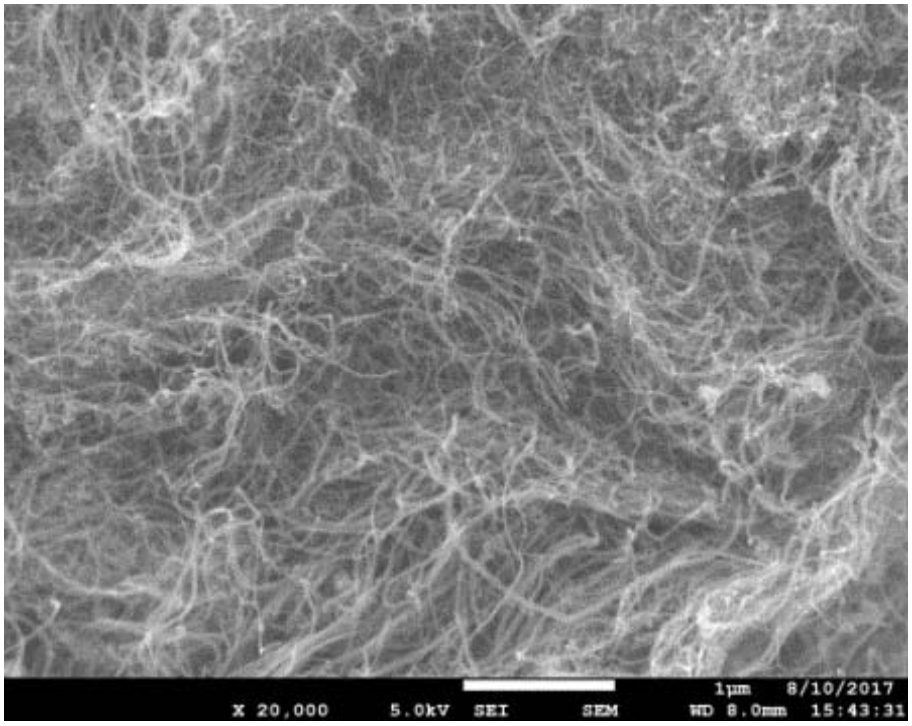
X 20,000 5.0kV SEI SEM
1µm 8/10/2017
WD 8.0mm 15:43:31

FIG. 5

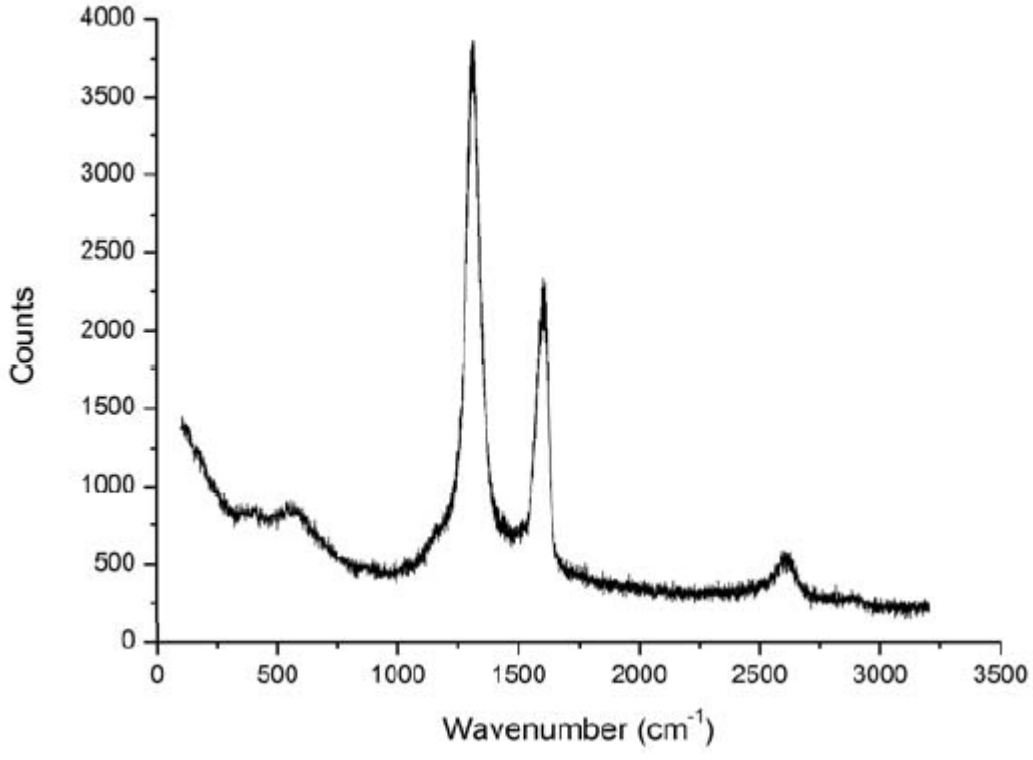
Counts
Wavenumber (cm-1)
0
500
1000
1500
2000
2500
3000
3500
4000

FIG. 6