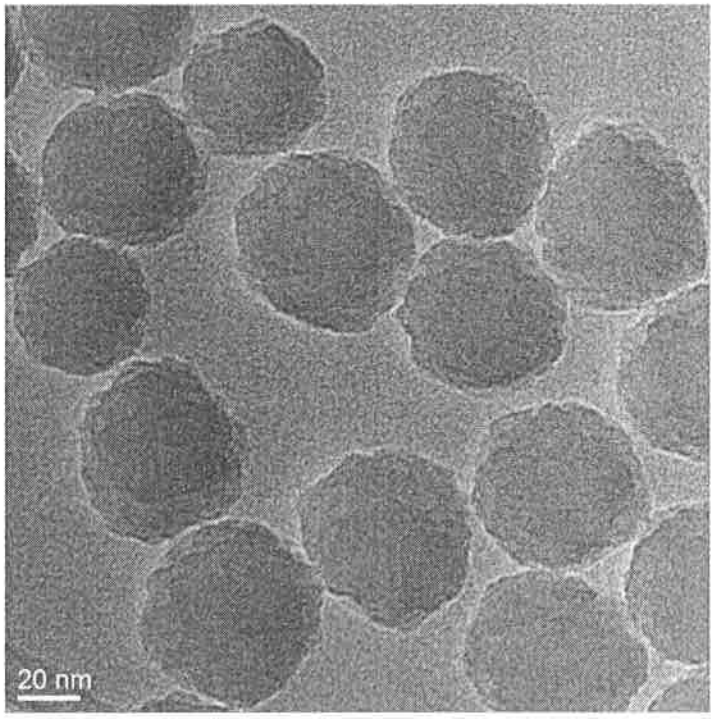

Figure 1

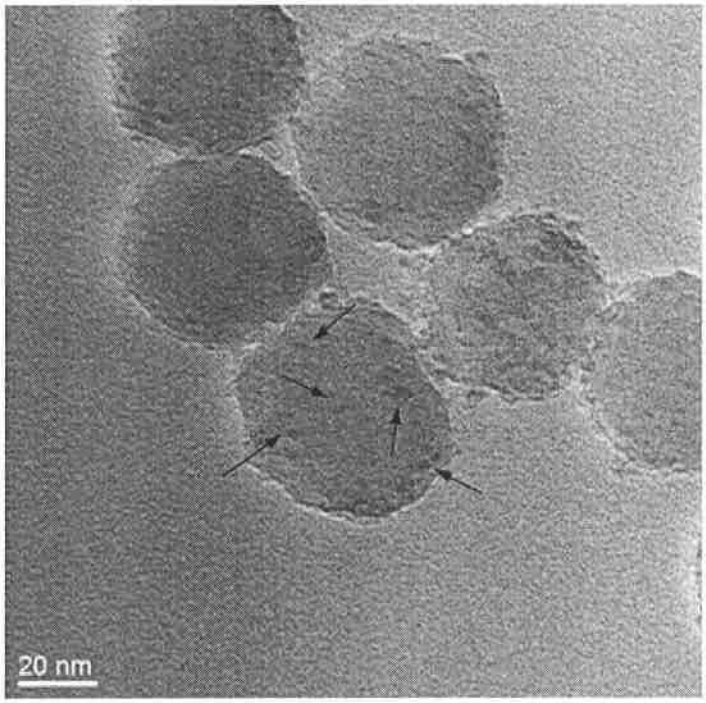

Figure 2

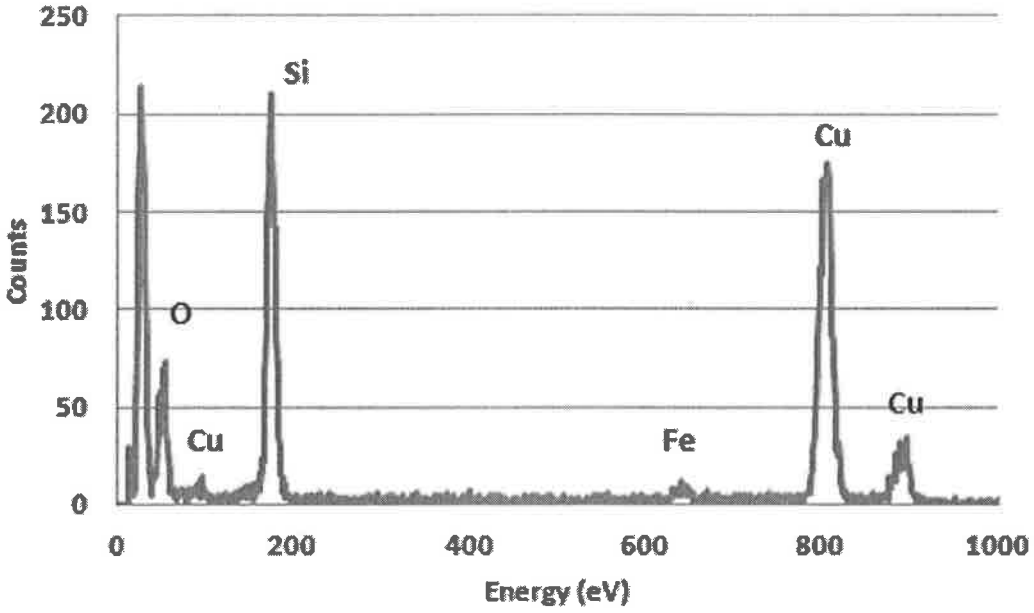
250
200
150
100
50
0
Counts
Si
Cu
O
Cu
Fe
Cu
0
200
400
600
800
1000
Energy (eV)

Figure 3

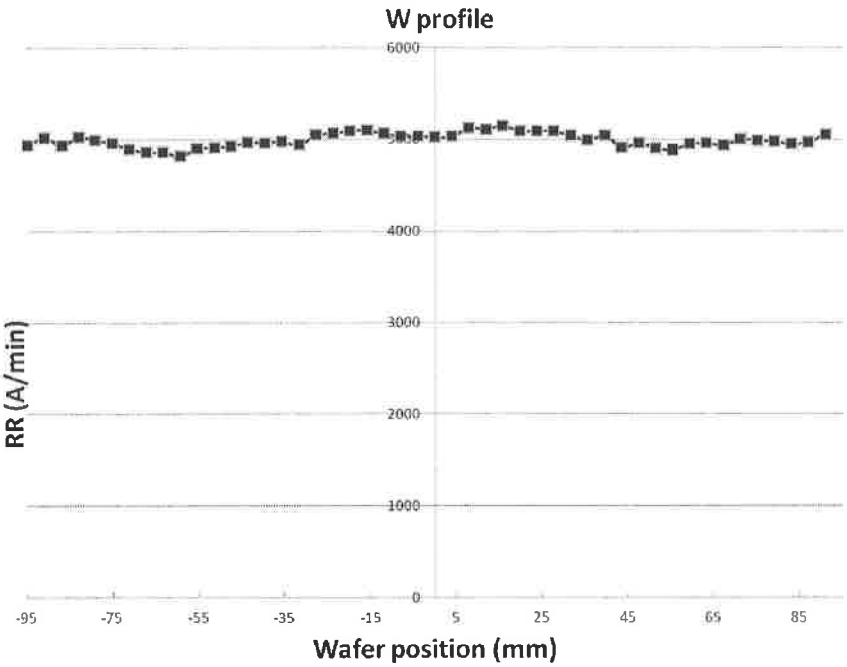
W profile
6000
4000
3000
2000
1000
0
RR (A/min)
-95
-75
-55
-35
-15
5
25
45
65
85
Wafer position (mm)

Figure 4