Fig. 1

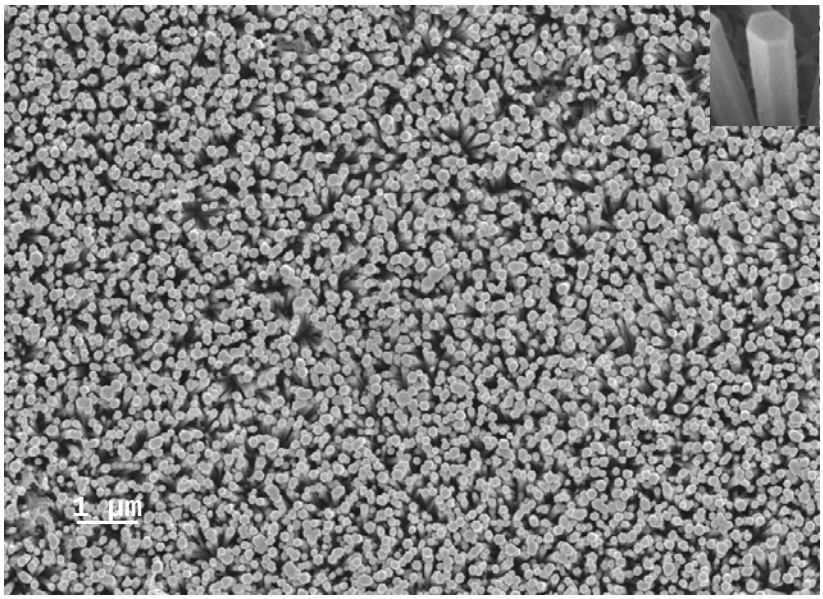
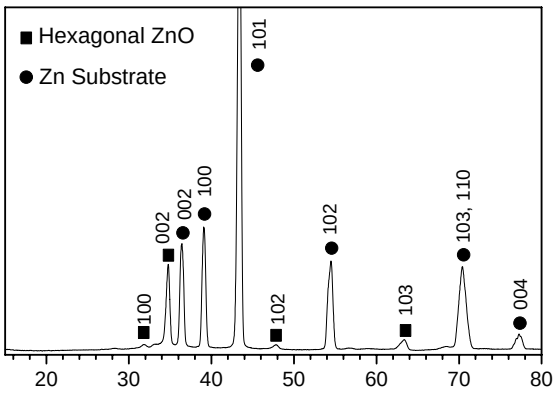

1 μm

Fig. 2


■ Hexagonal ZnO
● Zn Substrate
100
002
002
100
101
102
102
103
103, 110
004
20
30
40
50
60
70
80

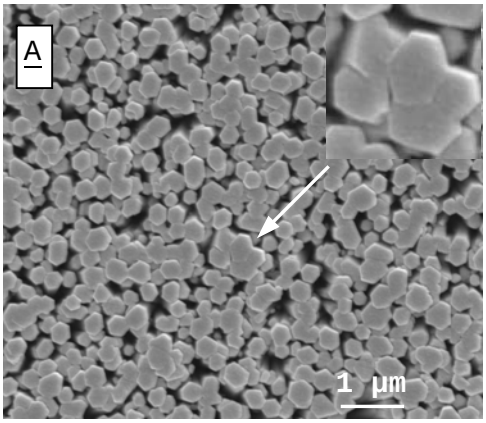


Fig. 3A

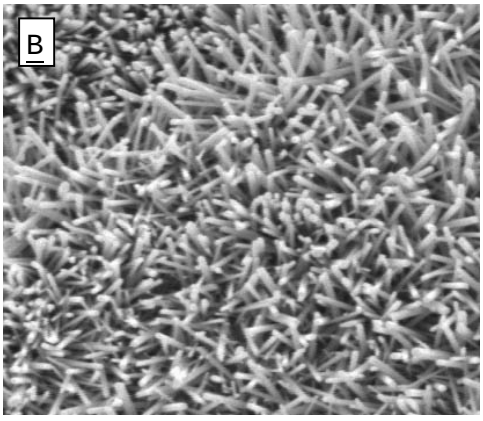


Fig. 3B

Fig. 4

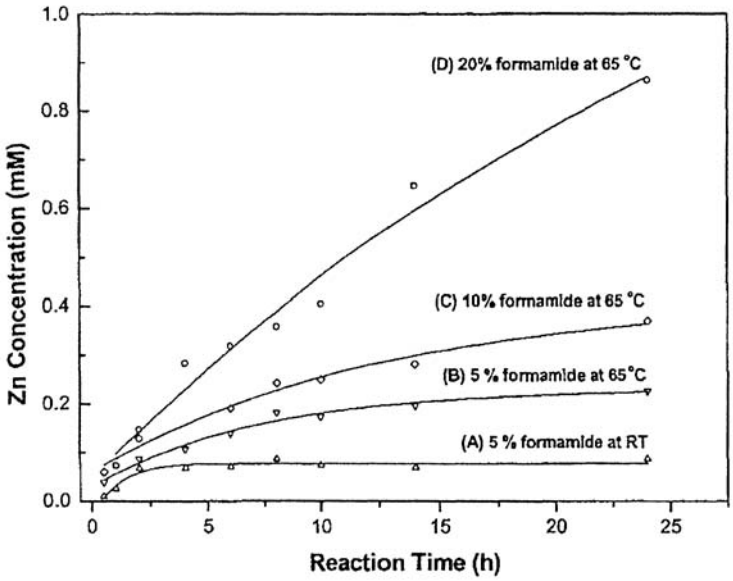

Zn Concentration (mM)
Reaction Time (h)
(D) 20% formamide at 65 °C
(C) 10% formamide at 65 °C
(B) 5 % formamide at 65°C
(A) 5 % formamide at RT
0.0
0.2
0.4
0.6
0.8
1.0
0
5
10
15
20
25

Fig. 5

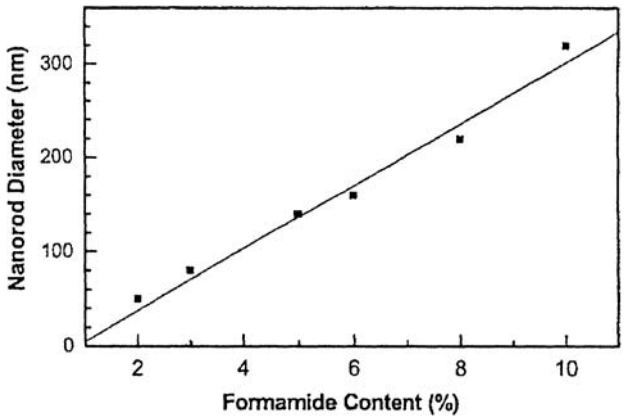

Nanorod Diameter (nm)
Formamide Content (%)
0
100
200
300
2
4
6
8
10

Fig. 6

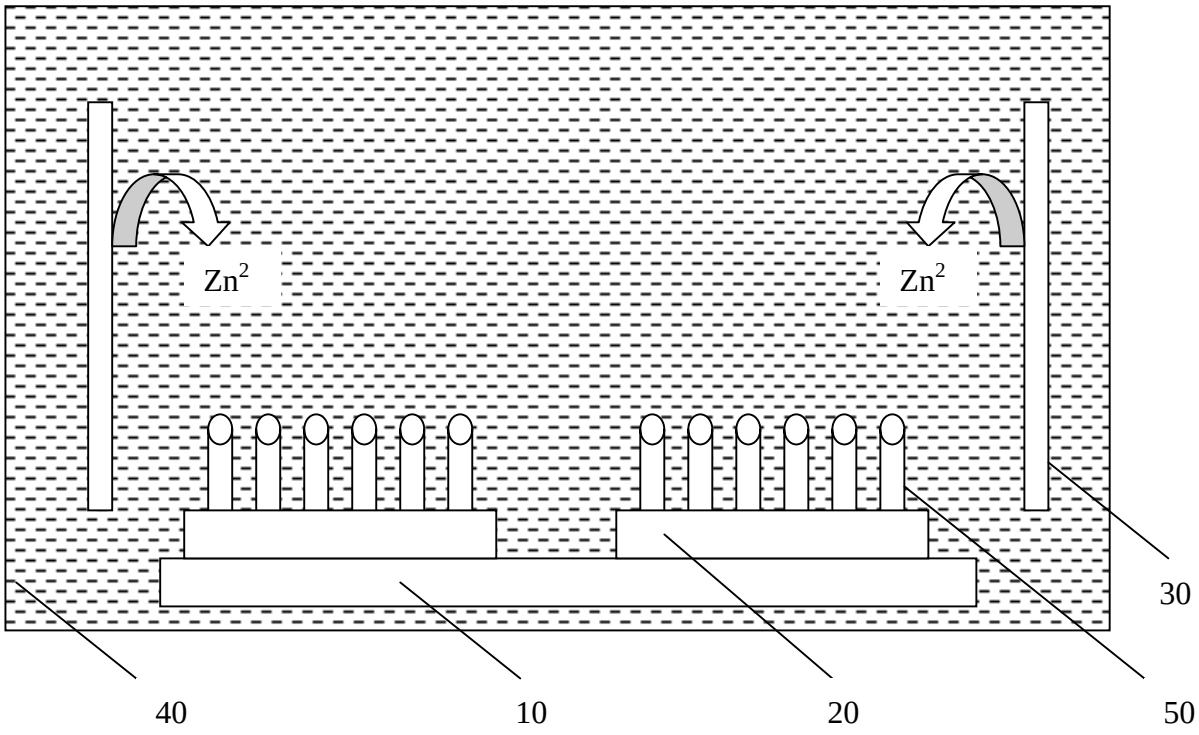


Fig. 7A

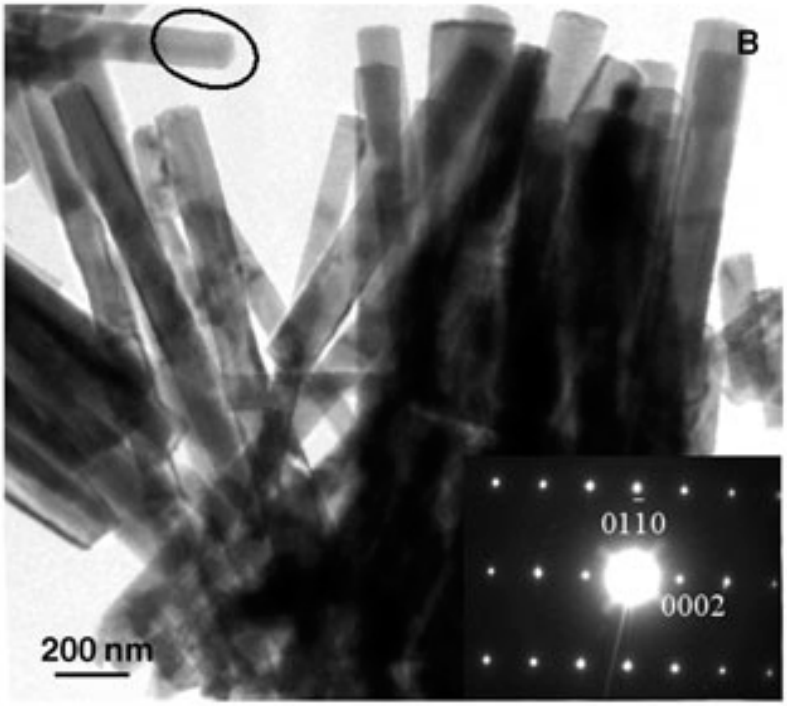


Fig. 7B

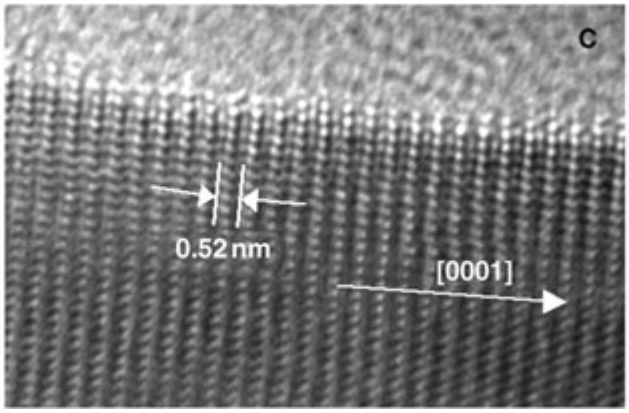


Fig. 8

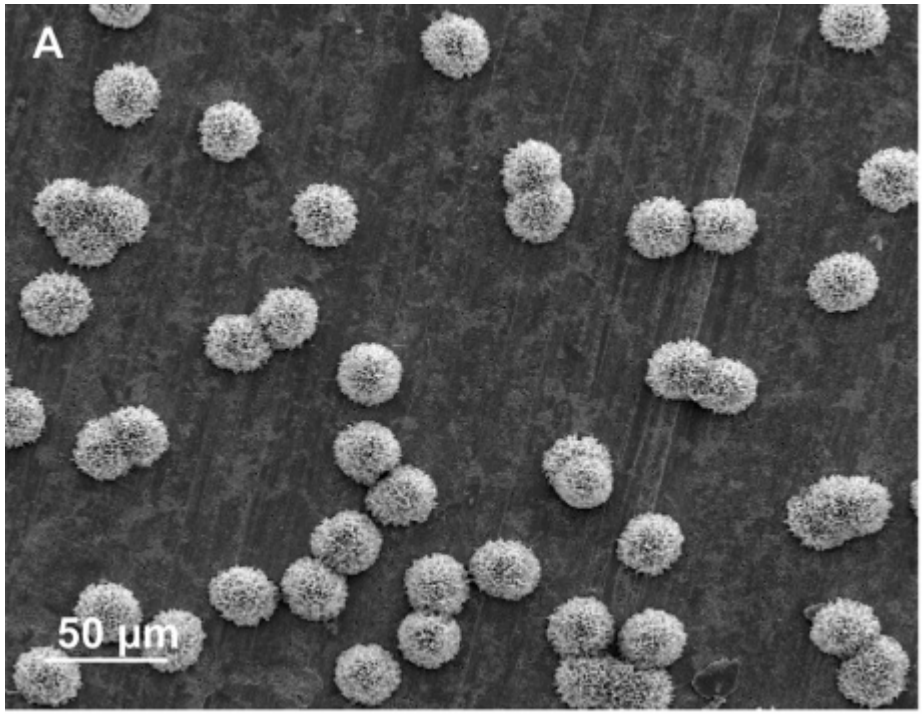


Fig. 9

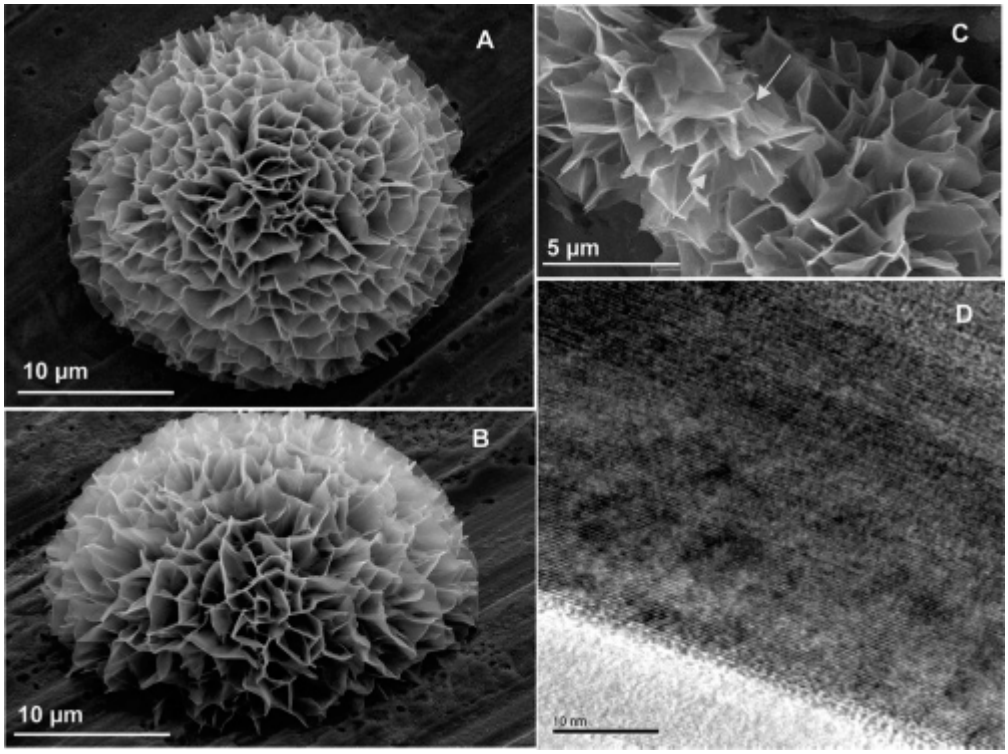


Fig. 10

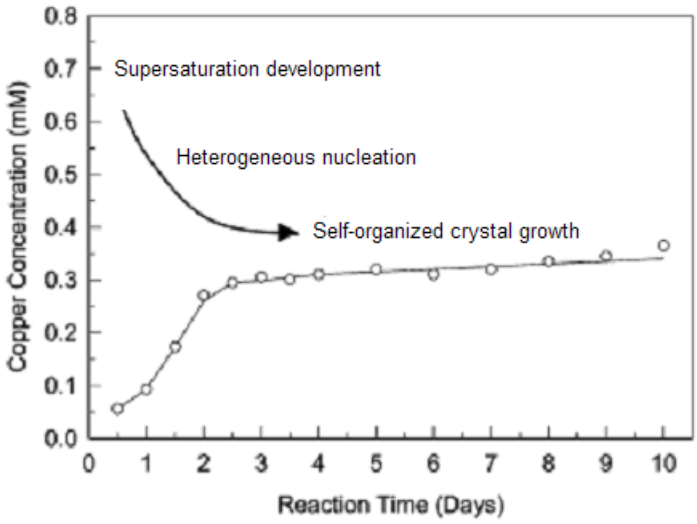

Supersaturation development
Heterogeneous nucleation
Self-organized crystal growth
Copper Concentration (mM)
Reaction Time (Days)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
1
2
3
4
5
6
7
8
9
10

Fig. 11

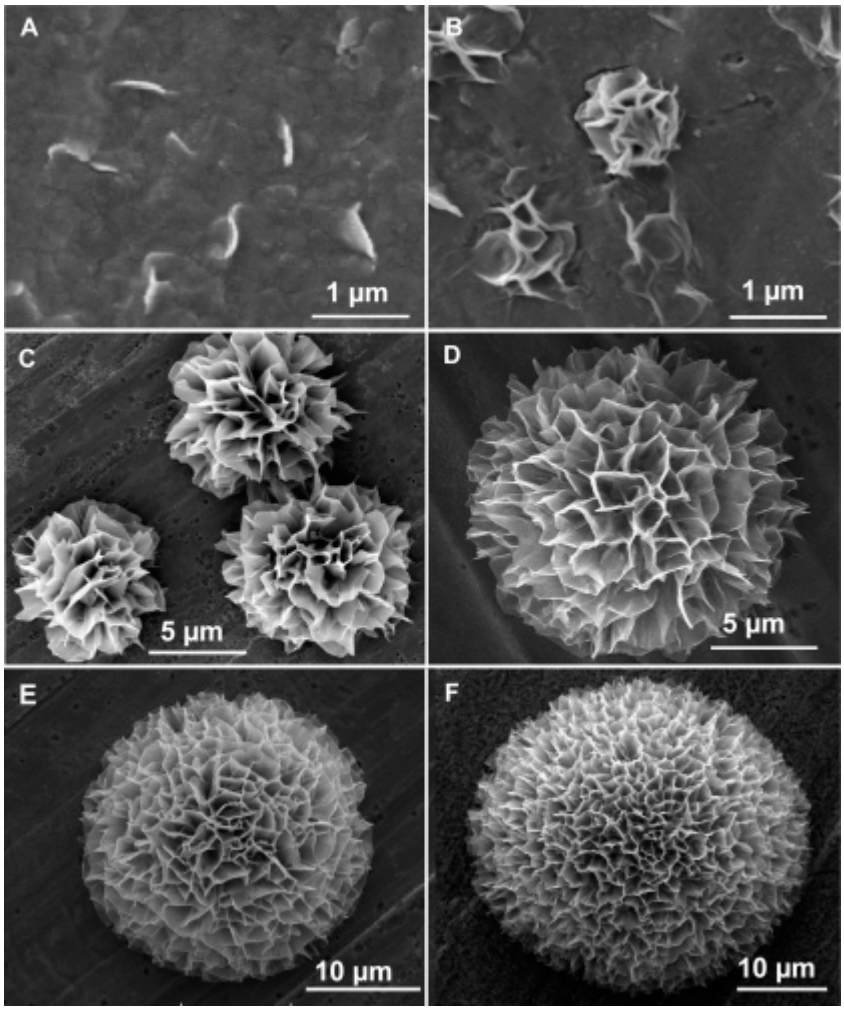


Fig. 12

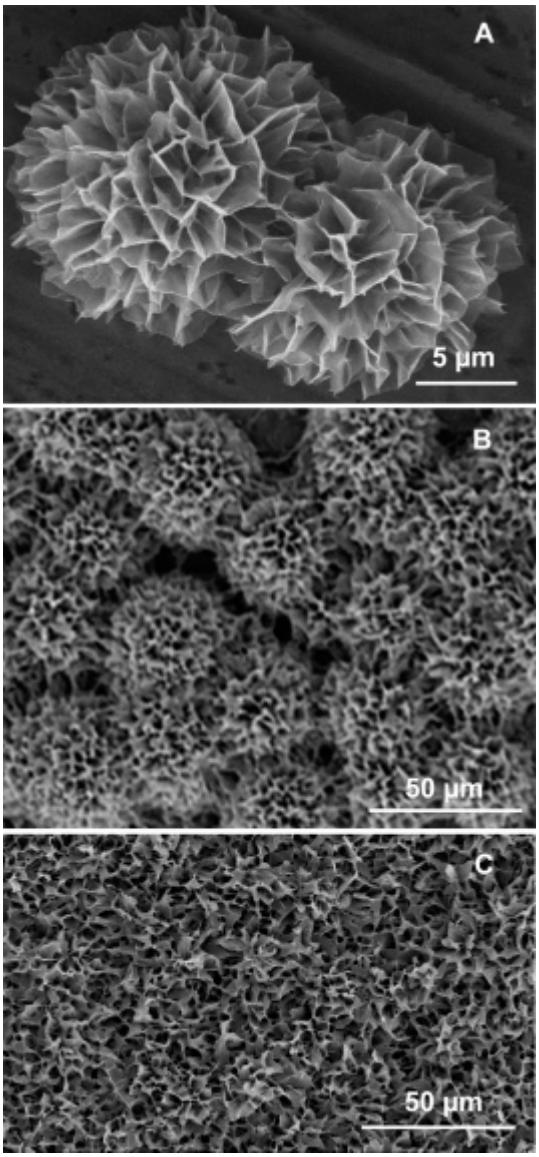


Fig. 13

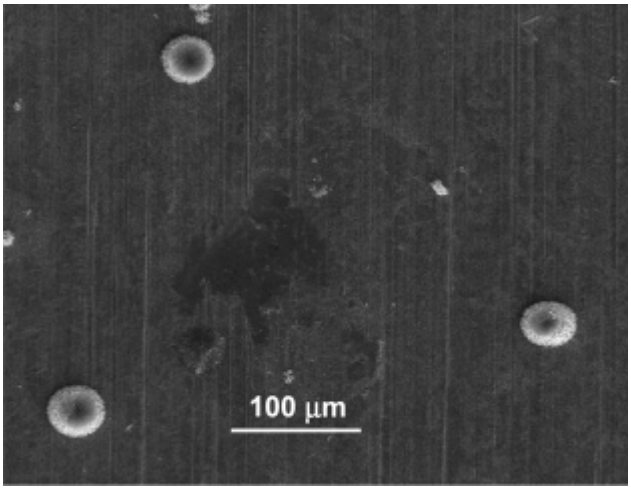


Fig. 14

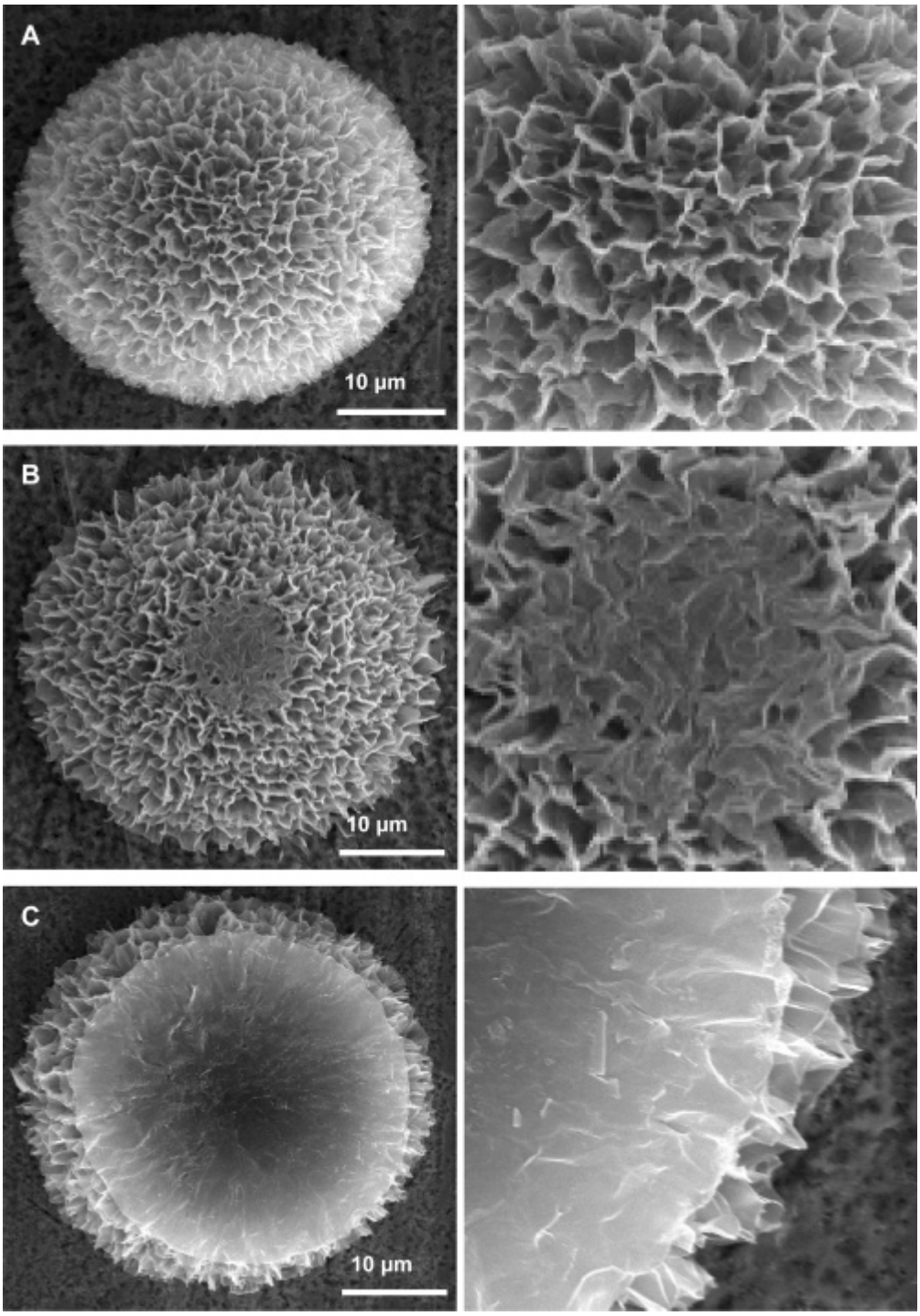


Fig. 15A

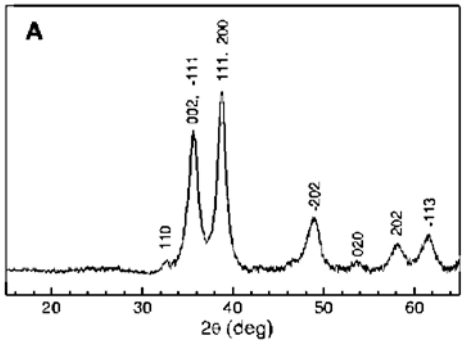


Fig. 15B

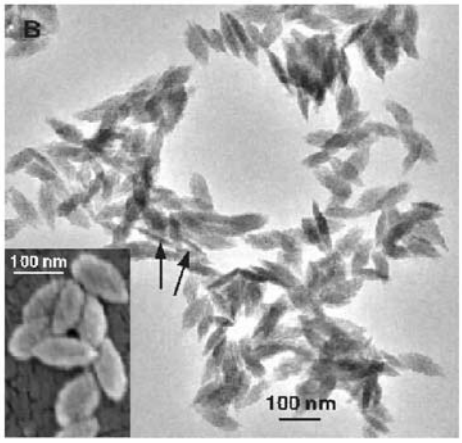


Fig. 15C

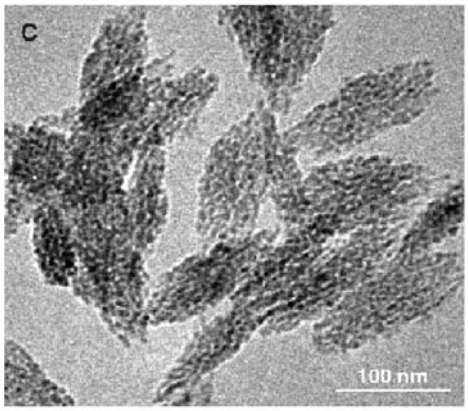


Fig. 16A

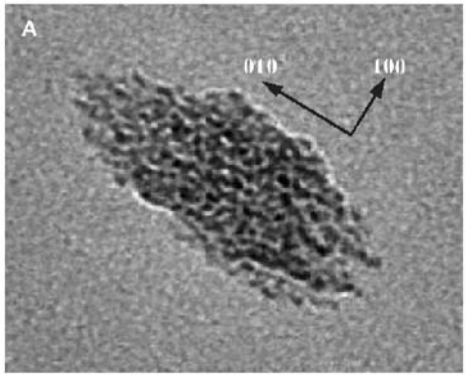


Fig. 16B

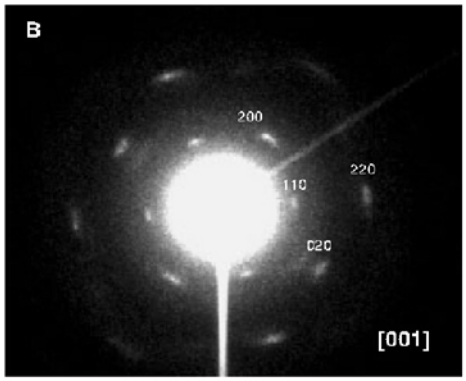


Fig. 17

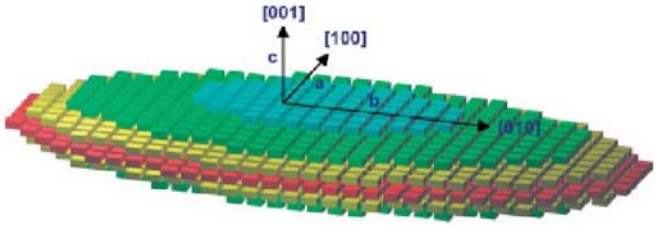


Fig. 18A

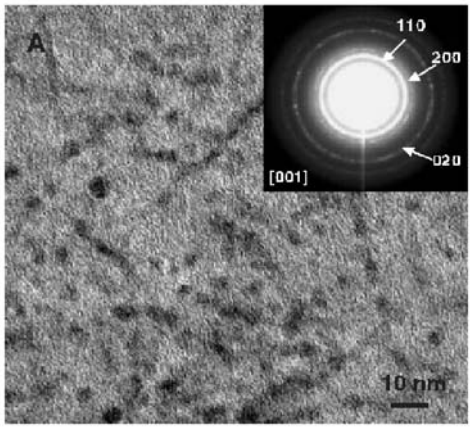


Fig. 18B

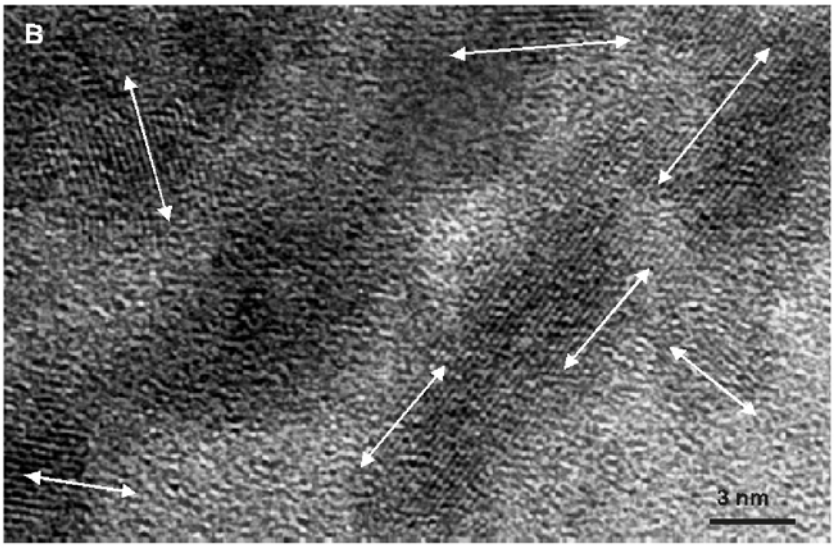


Fig. 18C

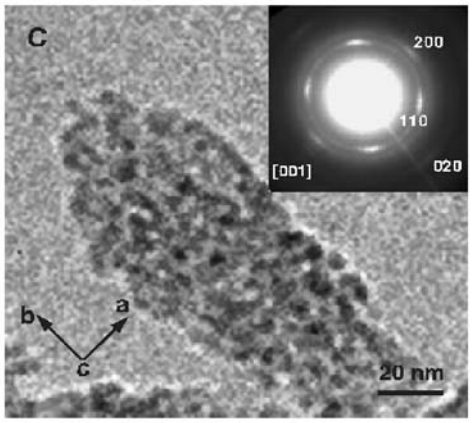


Fig. 18D

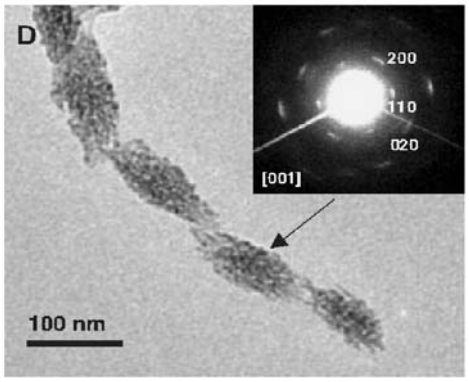


Fig. 19

