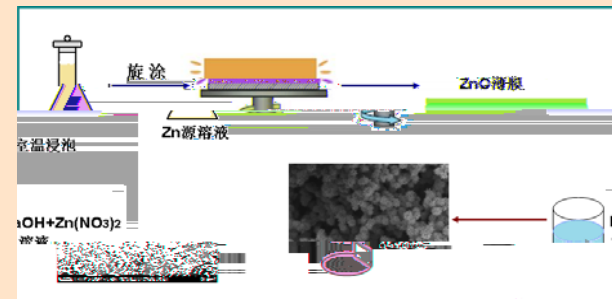


ZnO II-VI 3.4 eV
 ZnO 60 meV
 ZnO ZnO

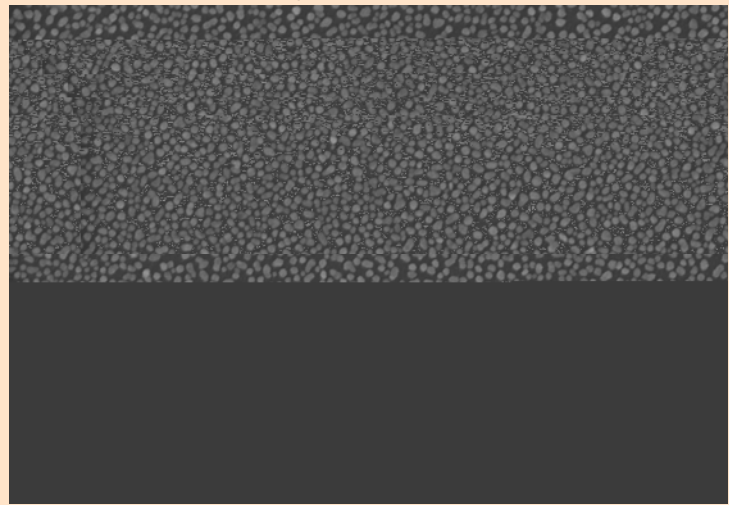
ZnO Si ZnO
 Zn(NO₃)₂
 25
 1 “ ”



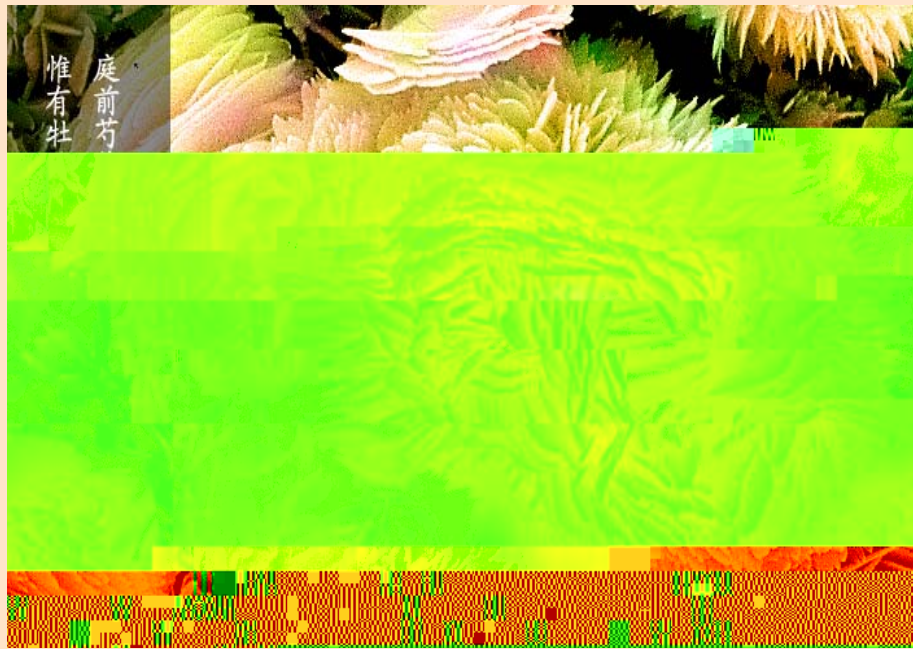
1 ZnO
 ZnO
 d=0.260nm
 0001 ZnO

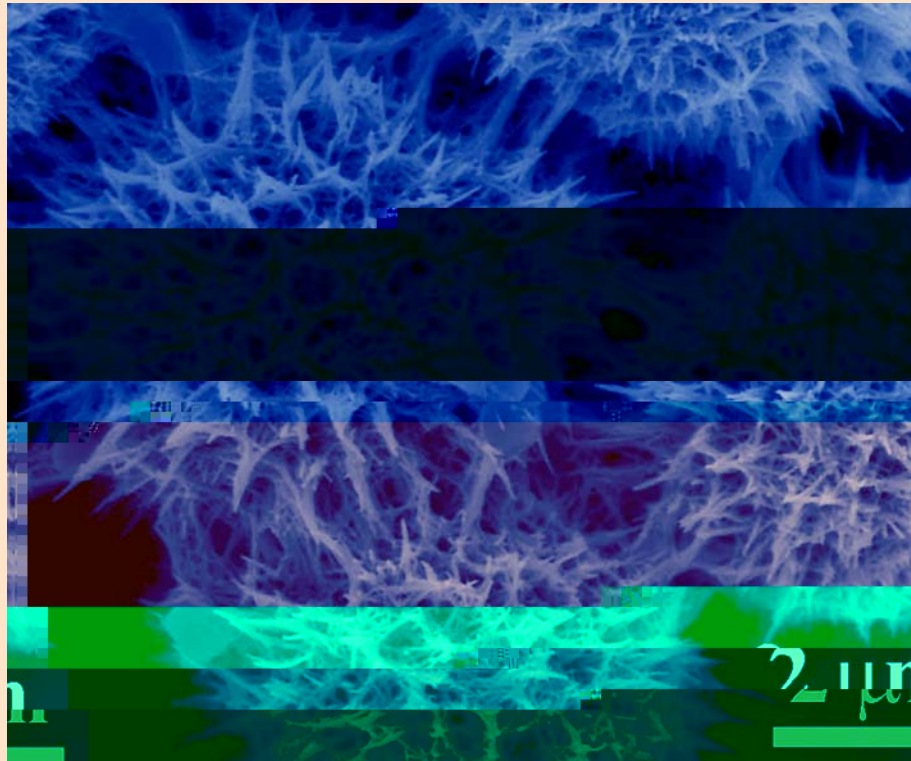


1 10 Ag SEM



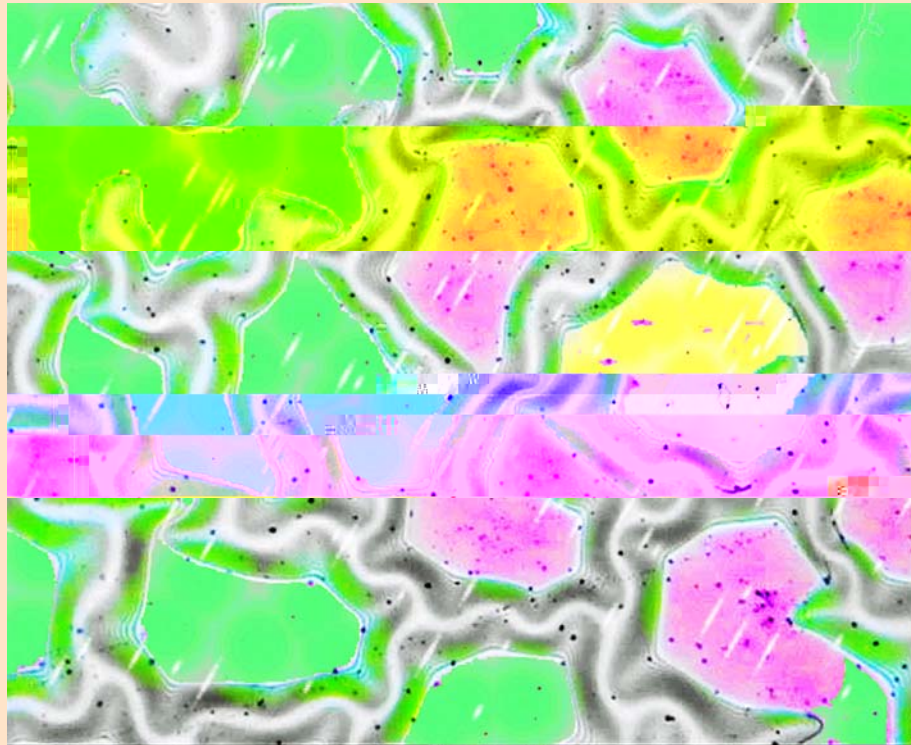
2 4 Ag SEM





μ





PECVD Au

Au



S4800

Photoshop

Hitachi

“ ”



PbTe

PbTe

PbTe

PbTe f.c.c. 6 {100} 8 {111} PbTe

[100] [111] f.c.c. PbTe

{111} {100} [111] [100]

f.c.c. {100} Berg effect (

,X) Pb Te PbTe

{100}

<100> NaOH

#

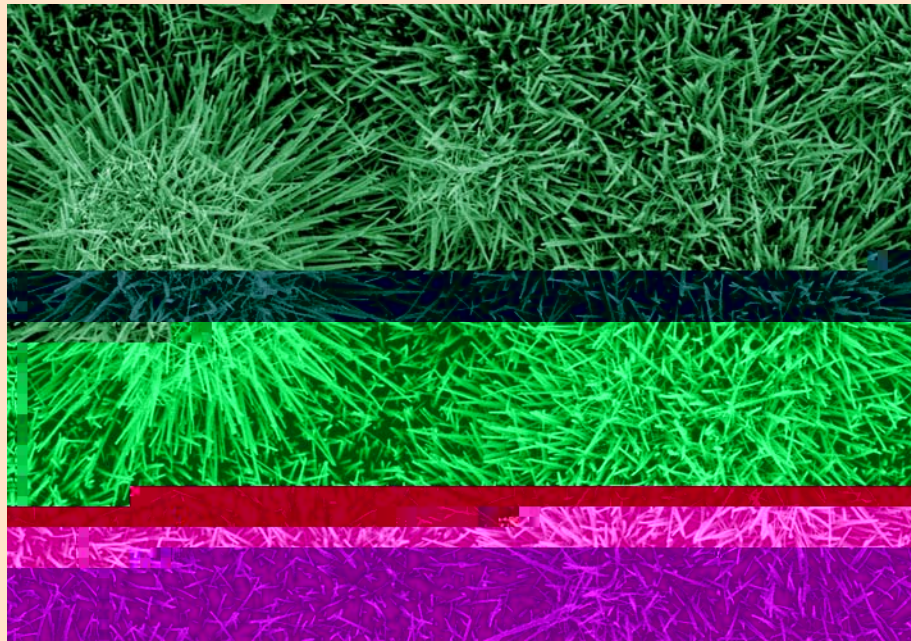


LiFePO₄/C/CF
3~5nm C
LiFePO₄ CF
C CF HRTEM

18



500	200-300	TEM	CuO
	CuO	20-50	
1200 mAh g ⁻¹	50	CuO	600 mAh g ⁻¹

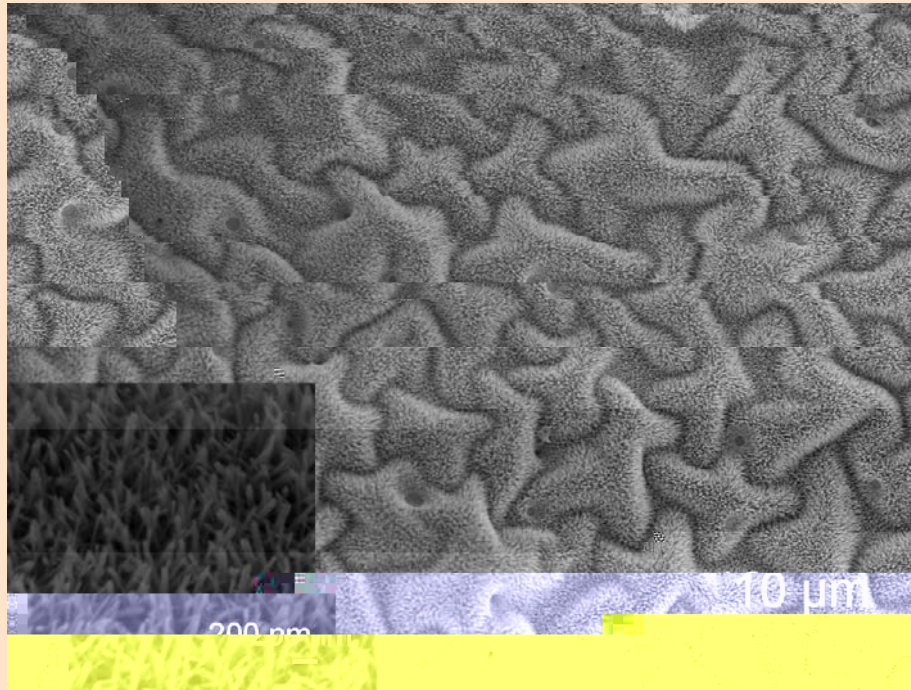


WO_3

100 nm

159





Hitachi S-4800

25 nm

...

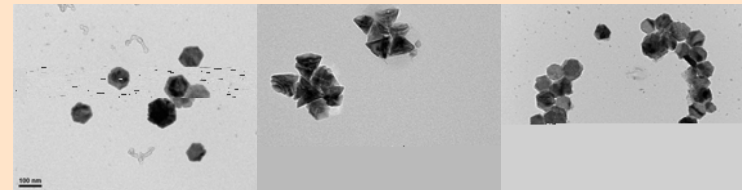


4000

1

2

3



20

1

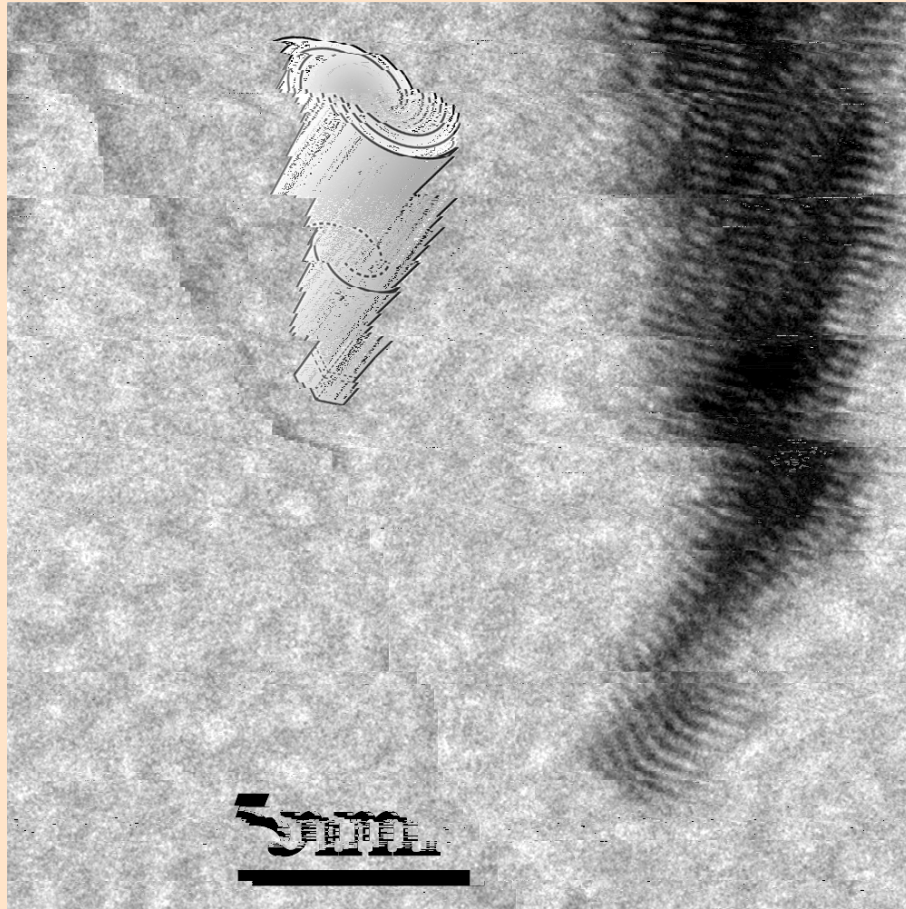
15

2

3

12

15



200 kV

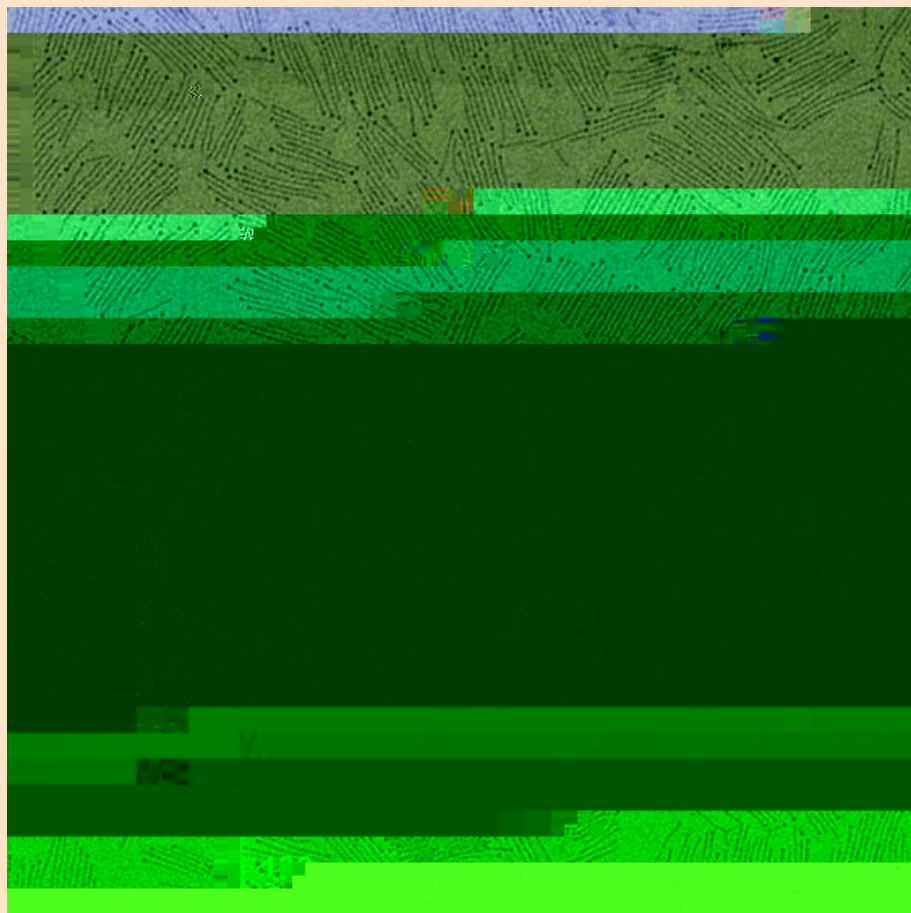
TEM

TEM

PDF

41-1445

0.347 nm
{110}



(Philips CM200 160 kV)

1.4 ZnMgO 60 ZnMgO 3 ZnMgO

1~2

ZnO

ZnMgO

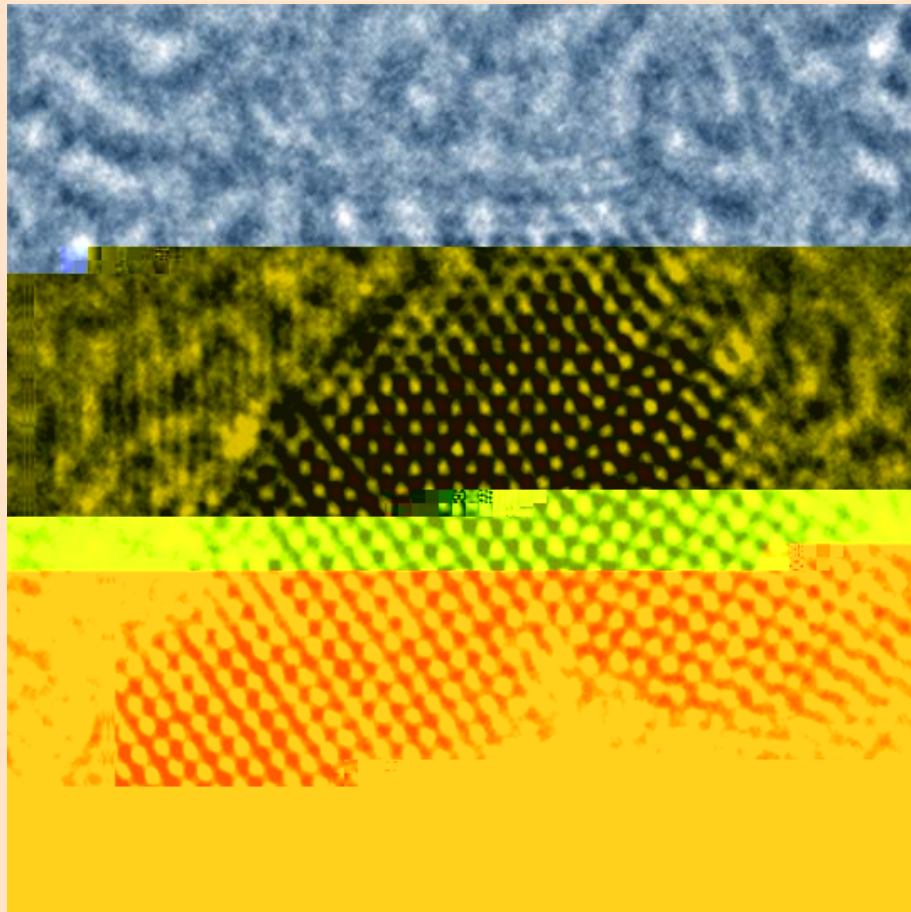
Mg

Mg

ZnO

(JACS

8.58) (J. Am. Chem. Soc., 2010, DOI: 10.1021/ja103956p)



TECNAI G2 F20
Mg ZnO

ABCABC
ABAB

ZnO

160 kV)
(Tetrapod)

tetrapod

Mg ZnO

ZnO

(HRTEM FEI

(Zincblende)
(Wurtzite)

(tetrapod)
(1)
(2)

(tetrapod)

(Wurtzite)
Mg

(JACS

8.58) (J. Am. Chem. Soc., 2010, DOI: 10.1021/ja103956p)

