



2c

, , , , ,

1a 1c

AFM ,

2a 2c

.

\*

\*

10: 11:

12: A:

B:

C: 가

, .

, ,

,

.

가 ,

.

.

,

가

, ,

가

.

pectroscopy)

AFM(Atomic Force Microscopy) XPS(X - ray photoelectron s

.

1a

AFM .

1b

AFM ,

.

1c AFM CF<sub>4</sub> O<sub>2</sub>  
2가 (In - Situ)

1 ;  
2 ;

1 , 2  
(Halogen Lamp)

가

F<sub>4</sub> O<sub>2</sub> 가 CF<sub>4</sub> Ar 가 CF<sub>4</sub> Ar 가 C

00 W . 7

2a (12) (11) (10)  
, 1000 W

2000 W 가 (12) (11) 가 (A) (11)  
700 W 가

, 2b (11)  
1000 W 1 (B) 가 CF<sub>4</sub> O<sub>2</sub>  
가 , CF<sub>4</sub> Ar 가

, 2c 2 (11) 'C' 가  
.2 1000 W 가 CF<sub>4</sub> Ar 가

가 가 , 가

, CF<sub>4</sub> Ar 가

(Synergy)

(57)

1.

;

1

;

2

2.

1 ,

가 ,

3.

2 ,

700 W

4.

1 3 ,

1000 W 2000 W

가 ,

1 2

1000 W

가

5.

4 ,

1 ,

CF<sub>4</sub> O<sub>2</sub> 가

CF<sub>4</sub> Ar 가

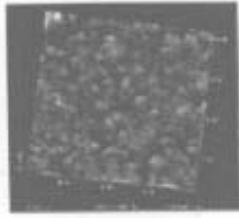
6.

4 ,

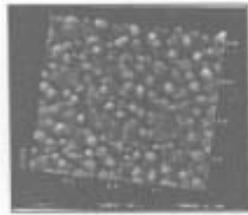
2 ,

CF<sub>4</sub> Ar 가

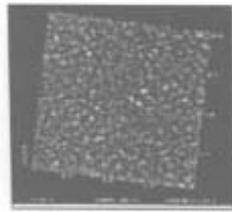
1a



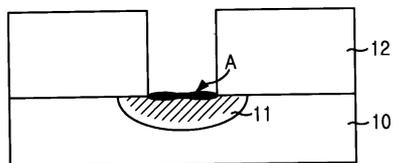
1b



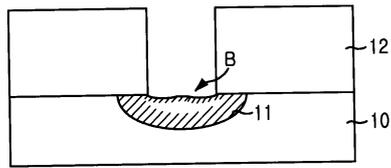
1c



2a



2b



2c

