

(19)



(12)

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(45)

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(65)

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(56)

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(43)

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(73)

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(74)

( ) 41139

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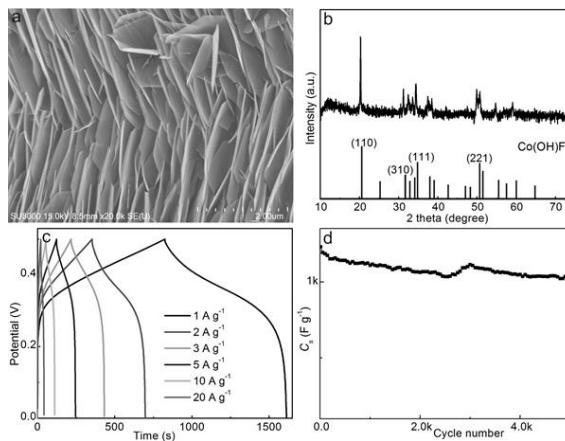
HD1G 11/86(2013.01)

(54)

(57)

F

Al<sup>3+</sup> F



1.

S1

1 h      2 cm

1 mol L<sup>-1</sup>

S2

Al Co(OH)F

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|    |                       |                       |          |       |        |                   |         |
|----|-----------------------|-----------------------|----------|-------|--------|-------------------|---------|
|    | 90                    |                       | 3 h      |       |        | Al                | Co(OH)  |
| F  |                       |                       |          |       |        |                   |         |
|    |                       | 2 mol L <sup>-1</sup> | KOH      |       |        | 1 Ag <sup>+</sup> |         |
|    | 1140                  | Fg <sup>-1</sup>      | 5000     |       | 92%    |                   |         |
| 5. |                       | 1                     |          |       |        |                   |         |
|    | 15 mmol               | 1.8 mmol              | 0.2 mmol | 80 mL |        | 8 mmol            |         |
|    |                       |                       |          |       | 100 mL |                   |         |
|    |                       | 2 cm                  |          |       |        |                   | 100     |
|    |                       | 10 h                  |          |       |        | Al                | Co(OH)F |
|    | 2 mol L <sup>-1</sup> | KOH                   |          |       |        | 1 Ag <sup>+</sup> |         |
|    | 920                   | Fg <sup>-1</sup>      |          |       |        |                   |         |

[0001]

\_\_\_\_\_

\_\_\_\_\_

|                  |  |                    |                  |                             |
|------------------|--|--------------------|------------------|-----------------------------|
|                  | 1.8 mmol<br>4 mmol                                 | 0.2 mmol           | 80 mL            | 15 mmol<br>100 mL           |
|                  |  | 2 cm               |                  |                             |
| 90               |  | 3 h                |                  | Al Co(OH)F                  |
|                  | 2 mol L <sup>-1</sup> KOH<br>1140 Fg <sup>-1</sup> | 5000               |                  | 1 Ag <sup>1</sup>           |
| [0018]           |  |                    | 92%              |                             |
|                  | 1.8 mmol   | 0.2 mmol           | 80 mL            | 8 mmol<br>100 mL            |
| 15 mmol          |  |                    |                  |                             |
|                  | 2 cm   |                    |                  | 100                         |
|                  | 10 h   |                    |                  | Al Co(OH)F                  |
|                  | 2 mol L <sup>-1</sup> KOH<br>920 Fg <sup>-1</sup>  |                    |                  | 1 Ag <sup>1</sup>           |
| [0019]           |  | Al Co(OH)F         |                  |                             |
|                  | 0.5_5 mol L <sup>-1</sup> KOH                      |                    |                  | Al Co(OH)F                  |
| [0020]           |  | Al Co(OH)F         |                  |                             |
| Al <sup>3+</sup> |  |                    |                  | F                           |
|                  |  |                    |                  | Al Co(OH)F                  |
|                  |  | F Al <sup>3+</sup> | Co               | Co                          |
| [0021]           | 1<br>XRD   | 1<br>Al Co(OH)F    | Al <sup>3+</sup> | SEM X                       |
| [0022]           | 2  | 2<br>Al Co(OH)F    | Al Co(OH)F       | SEM XRD<br>Al <sup>3+</sup> |
|                  |  | Co(OH)F            |                  | F Al <sup>3+</sup>          |

[0023]

[0024]

[0025] 1 mmol 1 mmol 80 mL 10 mmol 8  
mmol 100 mL

2 cm

80

5 h

Al Co(OH)F

1

1

mol L<sup>-1</sup> KOH1 Ag<sup>1</sup>

318 Fg

1 5000

47%

[0026]

2

[0027] 1.8 mmol 0.2 mmol 80 mL 10 mmol

8 mmol

100 mL

2 cm

90

2 h

Al Co(OH)F

2

5 Ag<sup>1</sup>2 mol L<sup>-1</sup> KOH1230 Fg<sup>1</sup> 1\_20 Ag<sup>1</sup>

53% 5000

84%

[0028]

3

[0029] 1.8 mmol 0.2 mmol 80 mL 15 mmol

4 mmol

100 mL

2 cm

90

3 h

Al Co(OH)F

2 mol L<sup>-1</sup> KOH1 Ag<sup>1</sup>1140 Fg<sup>1</sup> 5000

92%

[0030]

4

[0031] 1.8 mmol 0.2 mmol 80 mL 8 mmol

15 mmol

100 mL

2 cm

100

10 h

Al Co(OH)F

2 mol L<sup>-1</sup> KOH1 Ag<sup>1</sup>920 Fg<sup>1</sup>

[0032]

[ 0033]



