Study on nano-structured K-TiO₂ by molten salt treatment

(a)

Graduate School & Faculty of Engineering, Chiba University Yun Lu Laboratory http://apei.tu.chiba-u.jp/Luyun-HP.html



Photocatalytic activity

Absorption

Lamellar -

structure

(b)

Aim: to study the influence of potassium (K) by molten salt (MS) treatment

Experiment:

(a) Ti film

 $1 \mu m$

(d) K-

- 1. MS: KNO₃ added 5 wt% of K₂CO₃
- 2. MS condition: 773 K for *x* min (x: 5, 10, 15, 20) and 20 h
- 3. Oxidation condition: 973 K for 20 h

