

## 3D-NiO/Bi<sub>7.47</sub>Ni<sub>0.53</sub>O<sub>11.73</sub> 光催化剂的制备及其可见光催化性能

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## Preparation and Visible Light Photocatalytic Activity of 3D-NiO/Bi<sub>7.47</sub>Ni<sub>0.53</sub>O<sub>11.73</sub> Photocatalysts

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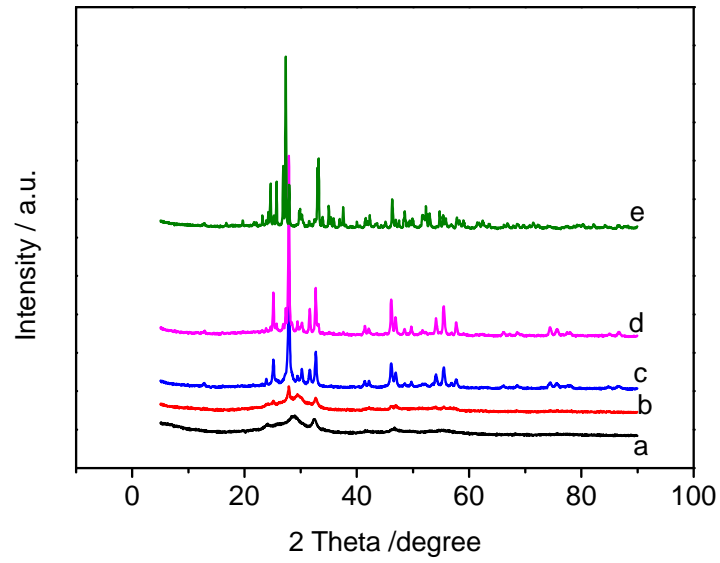


图 S1 不同温度煅烧后样品的 XRD 图

Fig.S1 XRD patterns of samples at different calcination temperatures  
(a) 200 °C, (b) 300 °C, (c) 400 °C, (d) 500 °C, (e) 600 °C

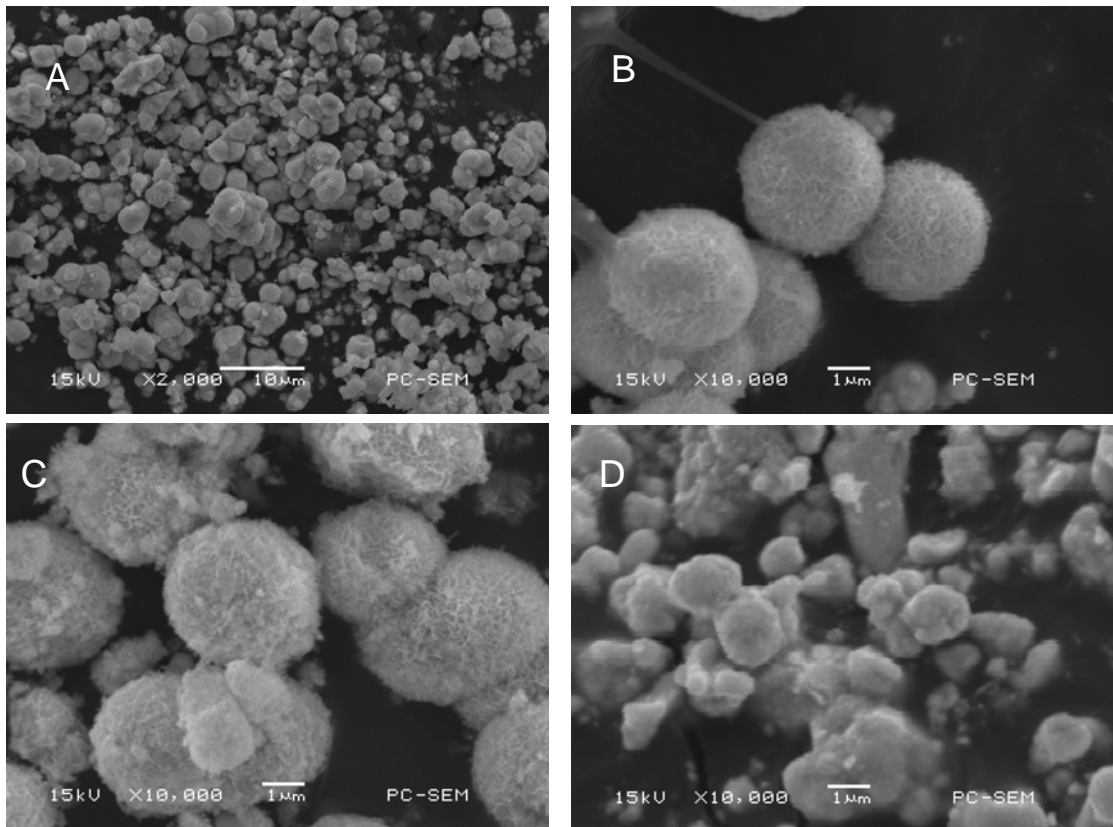


图 S2 不同温度煅烧后样品的 SEM 图

Fig.S2 SEM images of samples at different calcination temperatures  
(A) 200 °C, (B) 300 °C, (C) 400 °C, (D) 600 °C

表 S1 不同温度煅烧后样品的 BET

表 S1 BET data of samples at different calcination temperatures

sample	BiNiO-200	BiNiO-300	BiNiO-400	BiNiO-500	BiNiO-600
$S_{\text{BET}} / (\text{g}\cdot\text{m}^{-3})$	18.3	36.7	20.2	15.6	13.4

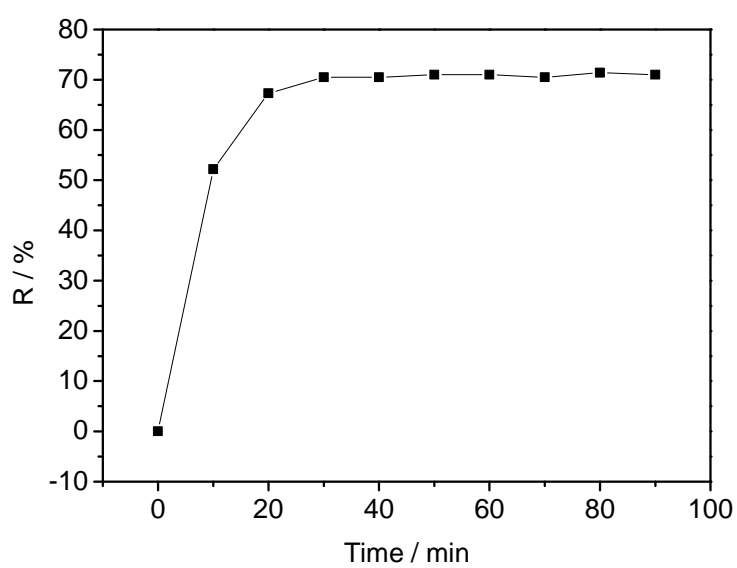
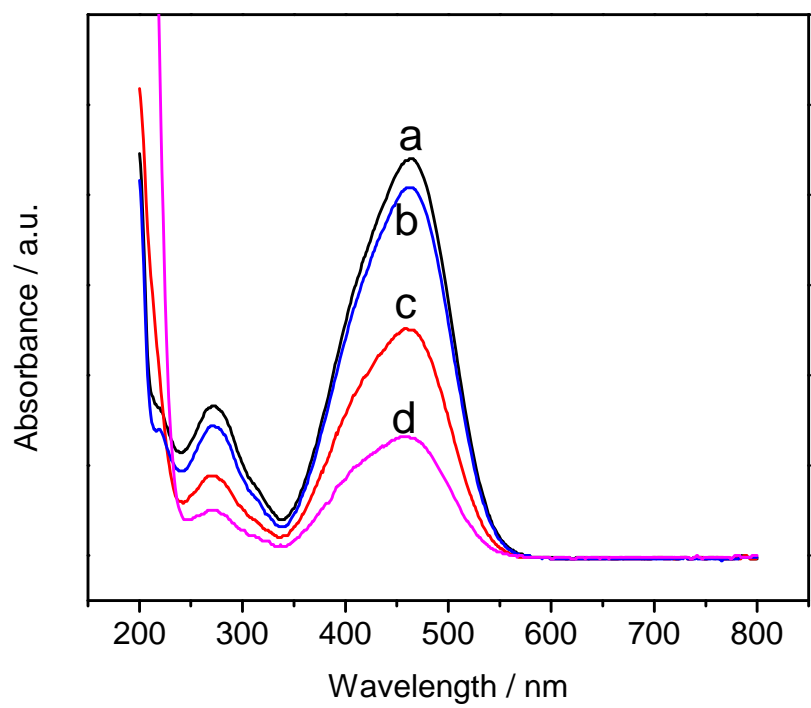


图 S3 BiNiO-300 在无光条件下对甲基橙的吸附率

Fig.S3 Adsorption rate of BiNiO-300 for methyl orange without illumination



图S4 不同煅烧温度下样品对MO的吸附情况  
 a)  $10^{-5}$  M / MO, b) 600°C, c) 400°C, d) 300°C

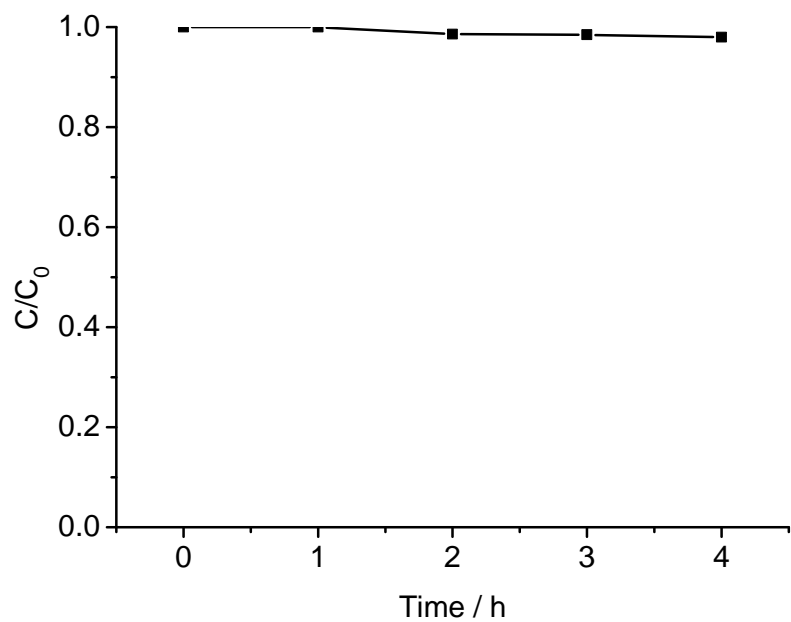


图 S5 NiO 在可见光下对 MO 的降解