Supporting information

Guanidine sulfate-assisted synthesis of hexagonal WO₃

nanoparticles with enhanced adsorption properties

Wanjun Mu, Mei Li, Xingliang Li, Zongping Ma, Rui Zhang, Qianhong Yu, Xiang Xie, Kai

Lv, Hongyuan Wei*, Yuan Jian

Institute of Nuclear Physics and Chemistry, China Academy of Engineering Physics, 64# Mianshan Road

^{*}Corresponding author: Tel: +86 816 2494854.

*E-mail address:*muwj2014@163.com



Fig.1. SEM images of the samples synthesized via hydrothermal treatment at170

 0C for 24 h with addition of 5 g $C_2H_{10}N\!\cdot\!H_2SO_4$



Fig.2. SEM images of WO₃ nanocrystals synthesized with different salts (a) CH_5N_3 ·HCl, (b) $C_2H_{10}N_6$ ·H₂CO₃, (c) $C_2H_6N_4S$.



Fig.3. XRD patterns of WO₃ nanocrystals synthesized with different salts, (a) CH₅N₃·HCl, (b) C₂H₁₀N₆·H₂CO₃, (c) C₂H₆N₄S.



Fig.4 XRD patterns of WO₃ nanocrystals synthesized with different salts