Effect of temperature, salinity, heavy metal, ammonium concentration, pH and dissolved oxygen on ammonium removal by an aerobic nitrifier

Ying Wang^a, Hu Chen^a, Yu-Xiang Liu^b, Rui-Peng Ren^a, Yong-Kang Lv^{a,*}

^a Key Laboratory of Coal Science and Technology, Ministry of Education and Shanxi Province, ^b College of

Environmental Science and Engineering, Taiyuan University of Technology, Taiyuan 030024, Shanxi, China

* Corresponding author. Tel (Fax):+86 351 6010386; E-mail address: lykang@tyut.edu.cn (Y.-K. Lv).

Supplemental figure caption:

Fig. S1 Utilization of nitrogen compounds by strain WY-01 under aerobic culture conditions. nitrate and ammonium (A), ammonium (B). Values are means \pm SD (Error bars) for three replicates.

Fig. S2 The growth and ammonium removal ability of strain WY-01 at 60 g/L of NaCl. Values are means \pm SD for three replicates.

Fig. S3 Effects of heavy metals on ammonium removal ability of strain WY-01. Cu^{2+} (A), Zn^{2+} (B). Values are means \pm SD for three replicates.



Fig. S1.



Fig. S2.



Fig. S3.