Supplementary Material

Simultaneous adsorption of trace sulfamethoxazole and hexavalent chromium by biochar/MgAl layered double hydroxide composites

Guowan Li, A Zhujian Huang, A Chengyu Chen, A Hongcan Cui, A Yijuan Su, A,B Yang Yang C and Lihua Cui A,D

A College of Natural Resources and Environment, South China Agricultural University, Guangzhou 510642, China.
B Key Laboratory of Agro-Environment in the Tropics, Ministry of Agriculture, South China Agricultural University, Guangzhou 510642, China.
C College of Life Science and Technology, Jinan University, Guangzhou 510632, China.
D Corresponding author. Email: lihcui@scau.edu.cn
Fig. S1. Molecular structure of sulfamethoxazole (SMX) (a) and solution speciation of SMX as a function of pH (b).

The formula of SMX is $C_{10}H_{11}N_3O_3S$; molecular weight is 235.28 g mol$^{-1}$; water solubility is 0.37 g L$^{-1}$, the n-octanol-water partition coefficient log$K_{ow}$ is 0.89 and the $pK_a$ values are 1.8 and 5.6 (Gao and Pedersen 2005; Pérez et al. 2005; Ji et al. 2011).
References:

