Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A.

Supporting Materials For

Cellulose Derived Magnetic Mesoporous Carbon Nanocomposites with Enhanced Hexavalent Chromium Removal

Bin Qiu,[1,2] Hongbo Gu,[1] Xingru Yan,[1,3] Jiang Guo,[1,3] Yiran Wang,[1] Dezhi Sun,[2*] Qiang Wang,[2] Mojammel Khan,[4] Xin Zhang,[5] Brandon L. Weeks,[5] David P. Young,[5] Zhanhu Guo,[1*] and Suying Wei[3*]

[1]Integrated Composites Laboratory (ICL)
Dan F Smith Department of Chemical Engineering
Lamar University, Beaumont, TX 77710 USA

[2]College of Environmental Science and Engineering
Beijing Forestry University, Beijing, 100083 China

[3]Department of Chemistry and Biochemistry
Lamar University, Beaumont, TX 77710 USA

[4]Department of Physics and Astronomy
Louisiana State University, Baton Rouge, LA 70803 USA

[5]Department of Chemical Engineering
Texas Technology University, Lubbock, TX 79409 USA

*: to whom the correspondence should be addressed

sundezhi@bjfu.edu.cn (D. S.)

zhanhu.guo@lamar.edu (Z. G.)

suying.wei@lamar.edu (S. W.)

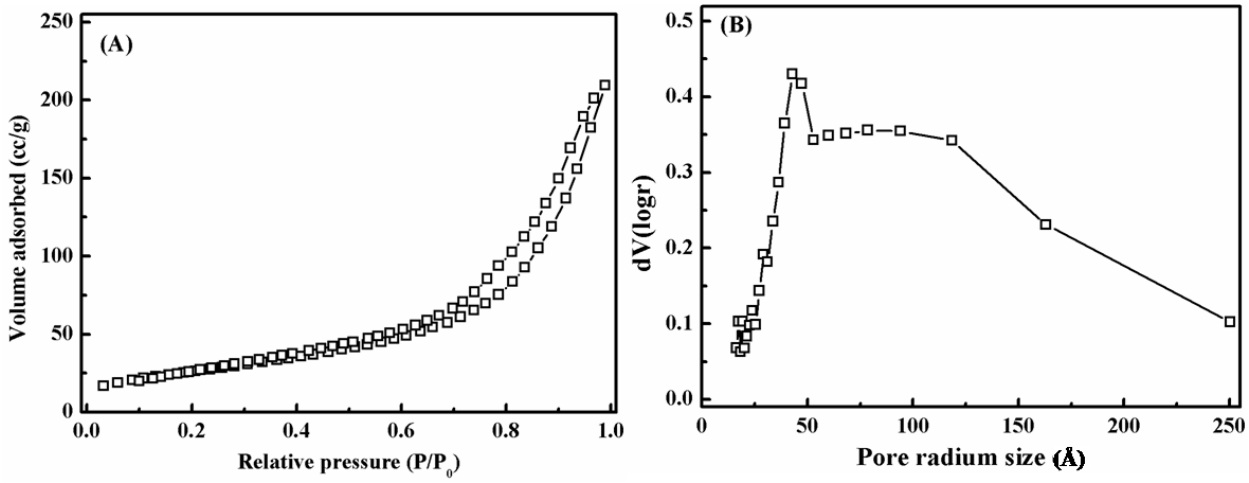

Fig. S1 (A) Nitrogen adsorption and desorption isotherm, and **(B)** pore size distribution of the as-received Fe_3O_4 nanoparticles.

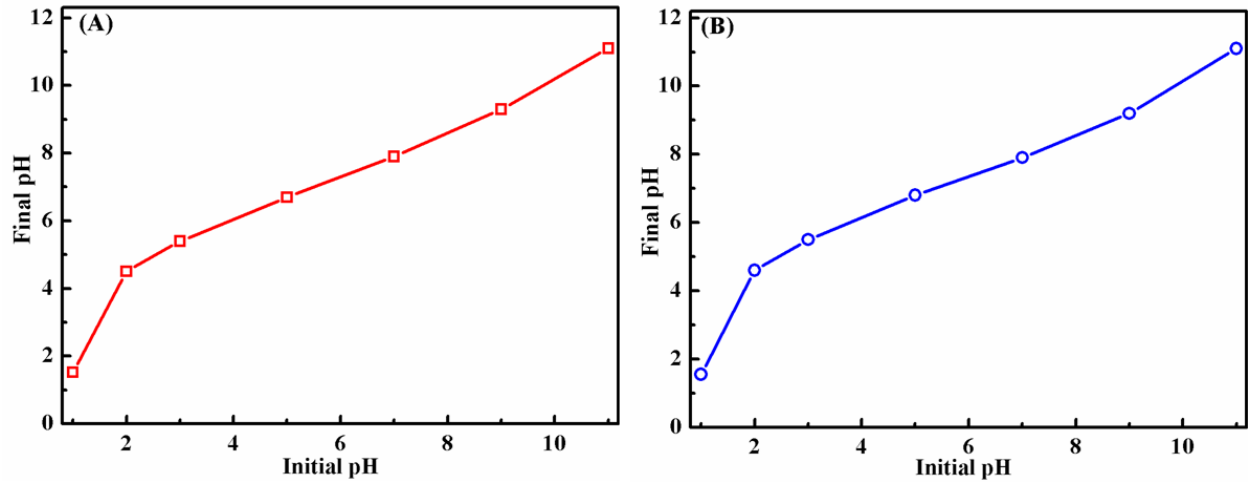

Fig. S2 pH value change in solutions after treated by **(A)** MC-O and **(B)** MC-N.

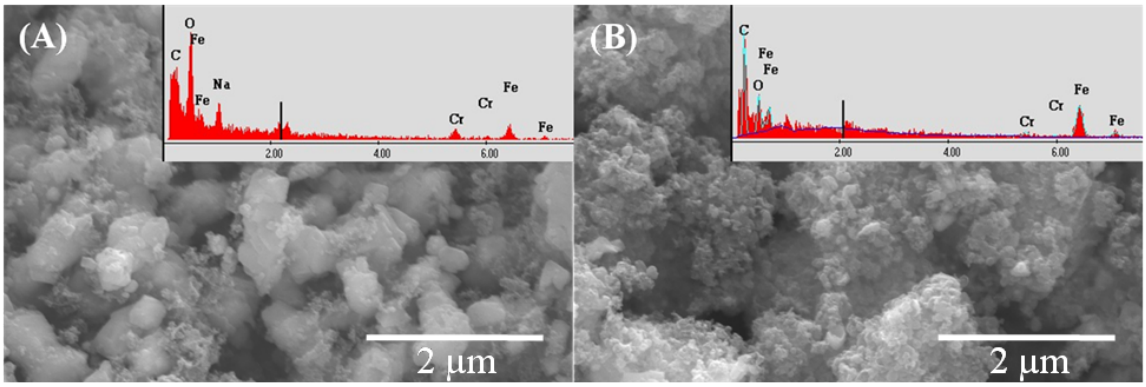

Fig. S3 SEM images and EDX (inserted) of the **(A)** MC-O and **(B)** MC-N treated by 1000 mg/L Cr(VI) at an initial pH of 3.0.

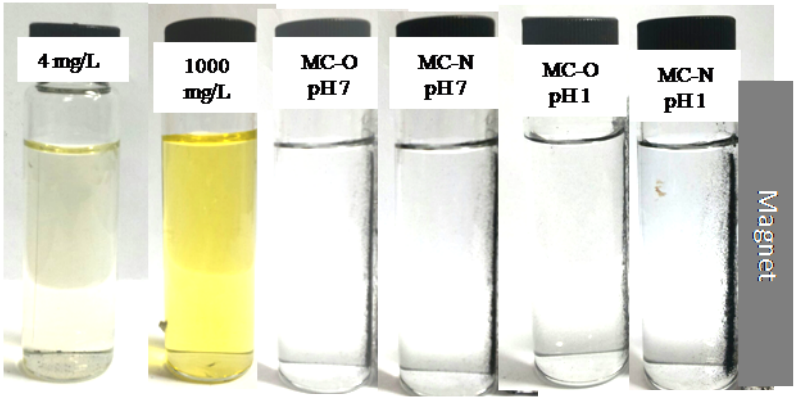

Fig. S4 Separations of MC-O and MC-N from treated solutions by magnet.