

Kinetics and Thermodynamics study on removal of Cr(VI) from aqueous solutions using acid-modified banana peel (ABP) adsorbents

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Supporting Information

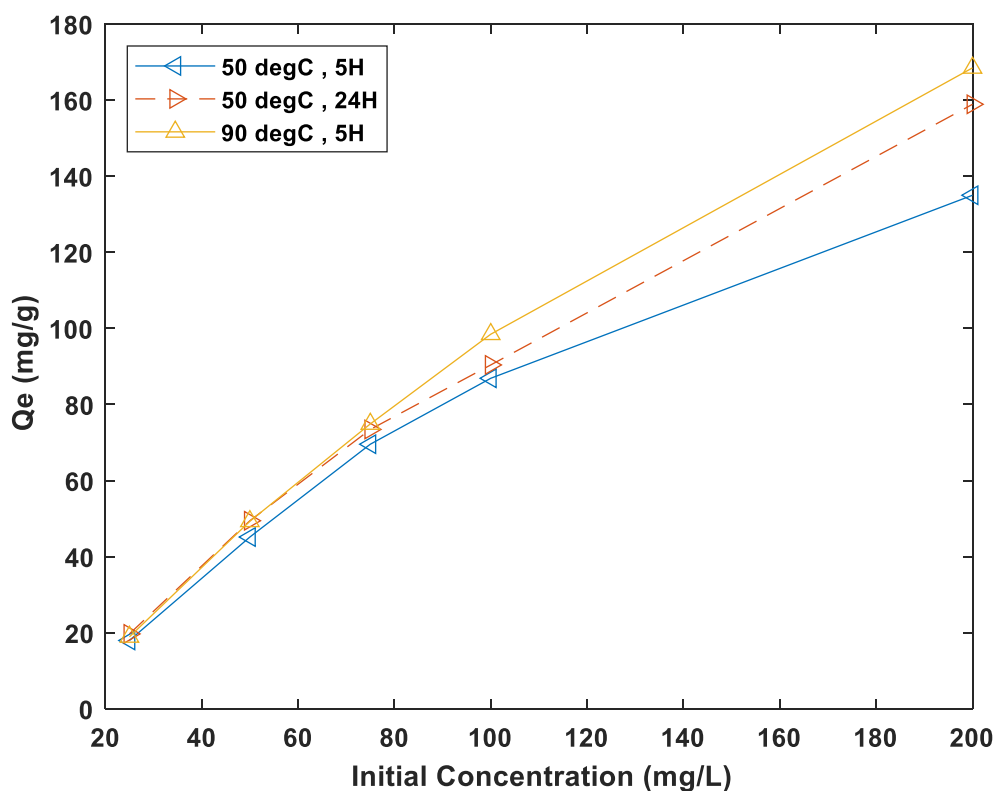
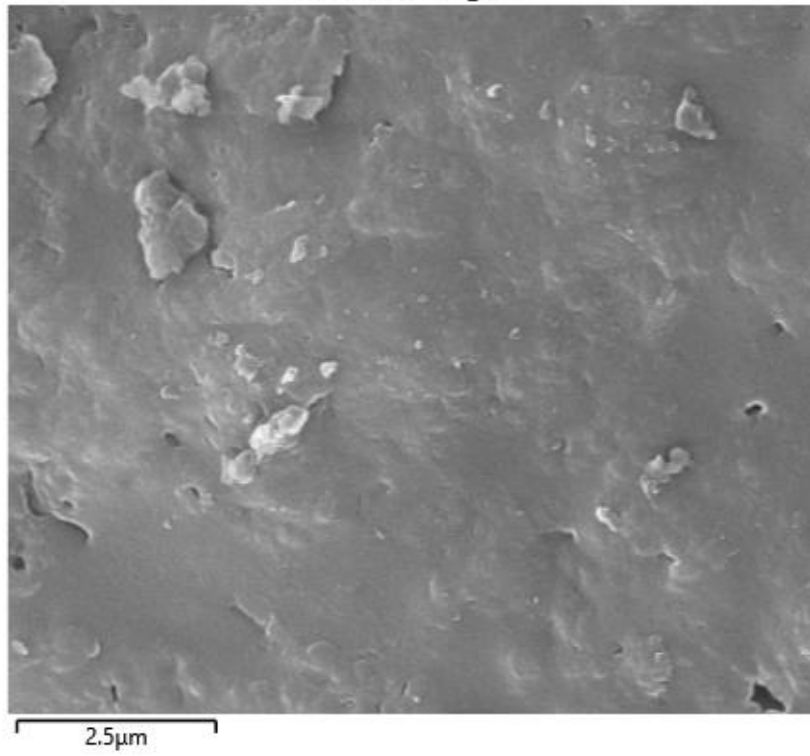


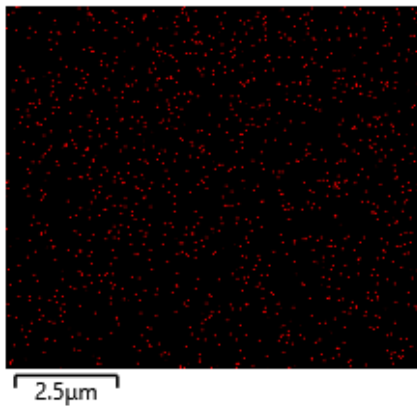
Figure S1 Comparison of ABP adsorption performance under different modified conditions
After comparison of the control group, the preparation conditions of ABP used in subsequent experiments were 90 degrees Celsius and the reaction time was 5 hours.

SEM -EDX Data 30k Magnification before Adsorption:

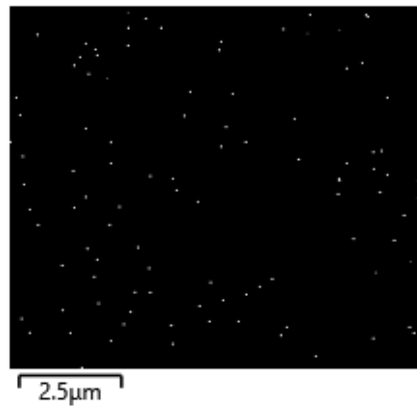
Electron Image 3



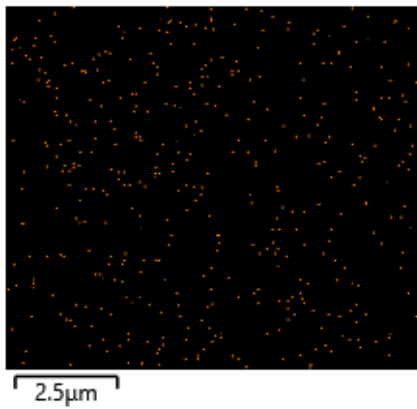
S K α 1



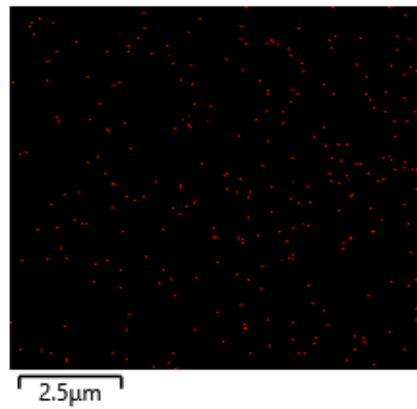
Fe K α 1



K K α 1



Si K α 1



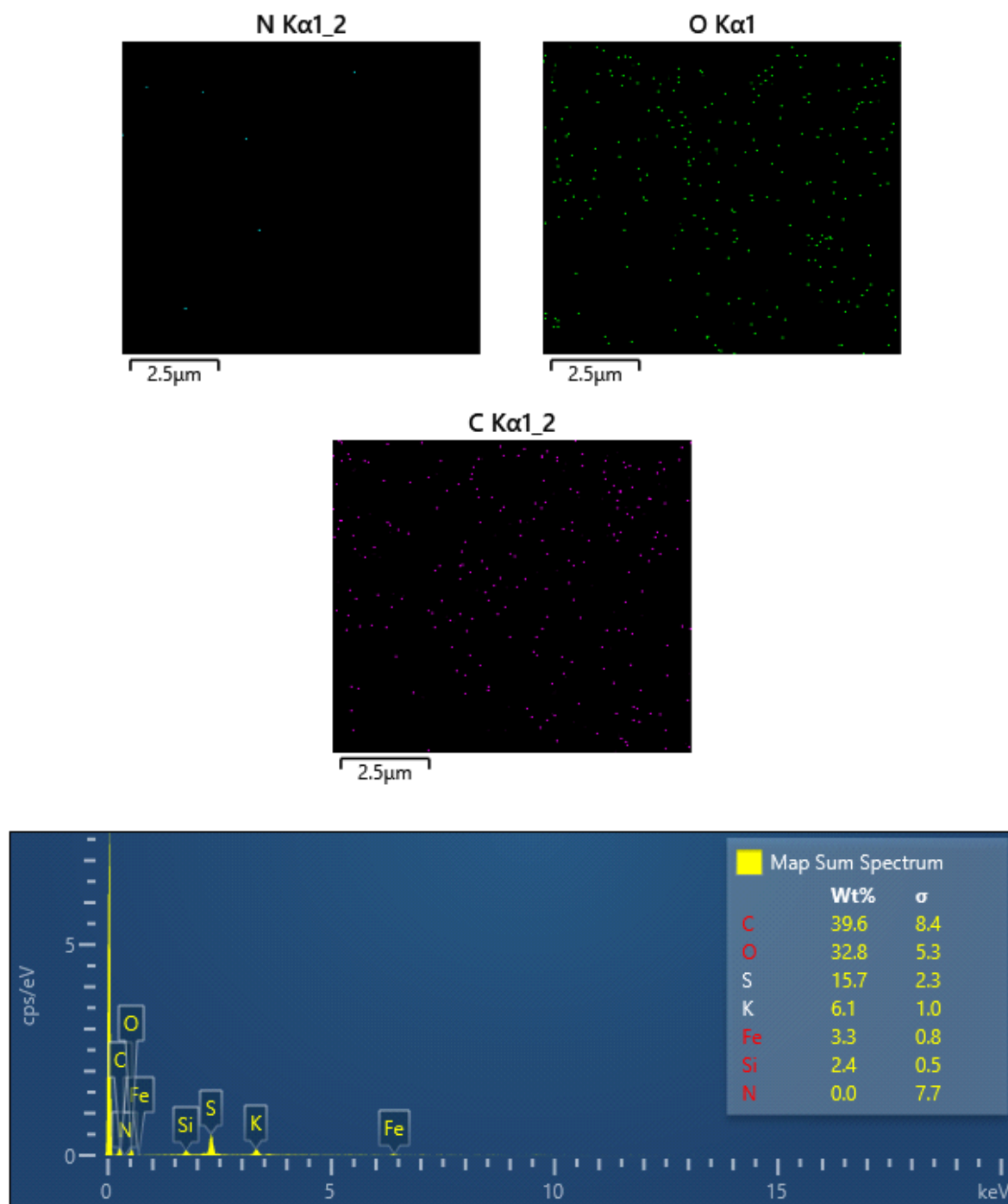
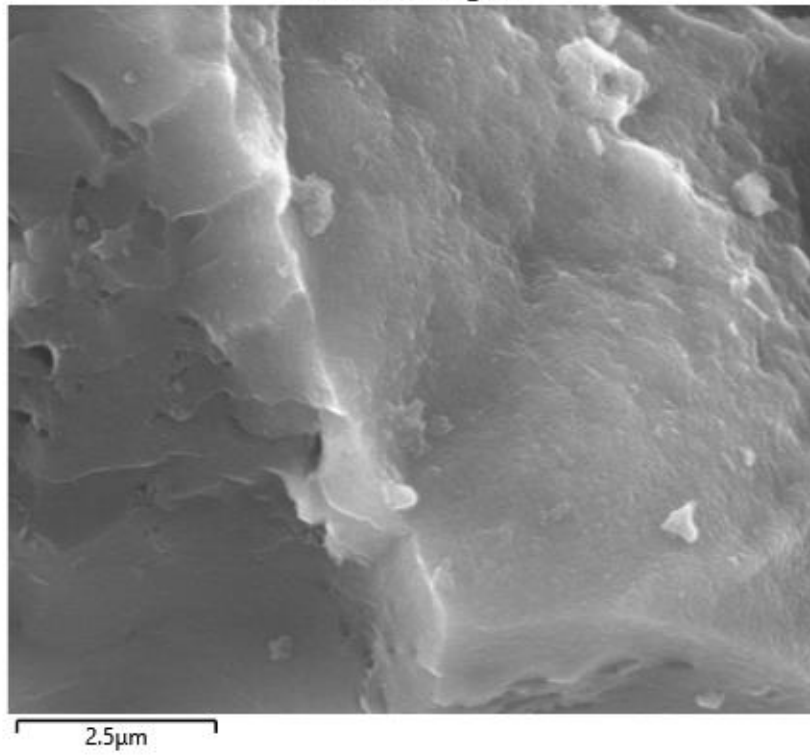
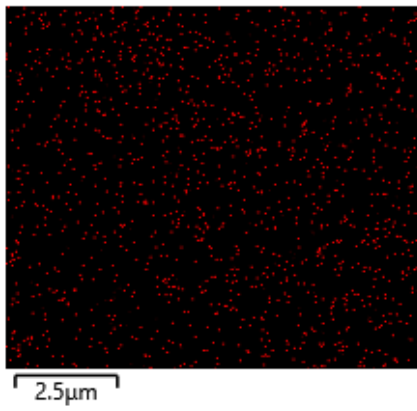


Figure S2 SEM-EDX data of the sample before adsorption. Magnification was 30000 and acceleration voltage of 20 keV used.

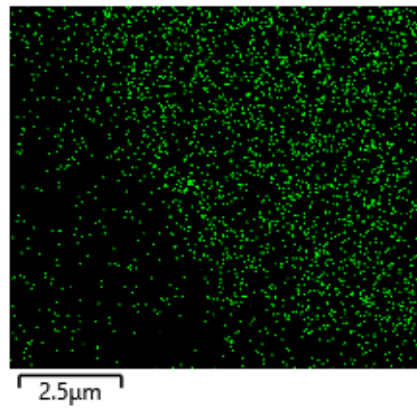
Electron Image 5



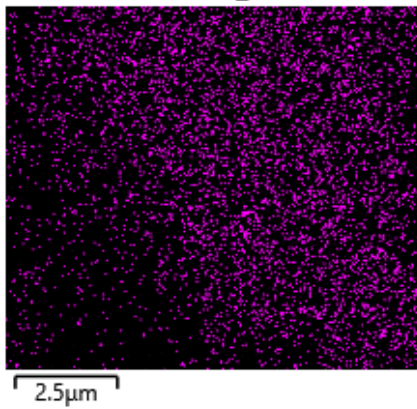
S K α 1



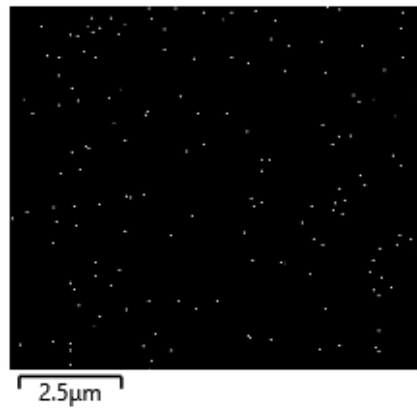
O K α 1



C K α 1_2



Fe K α 1



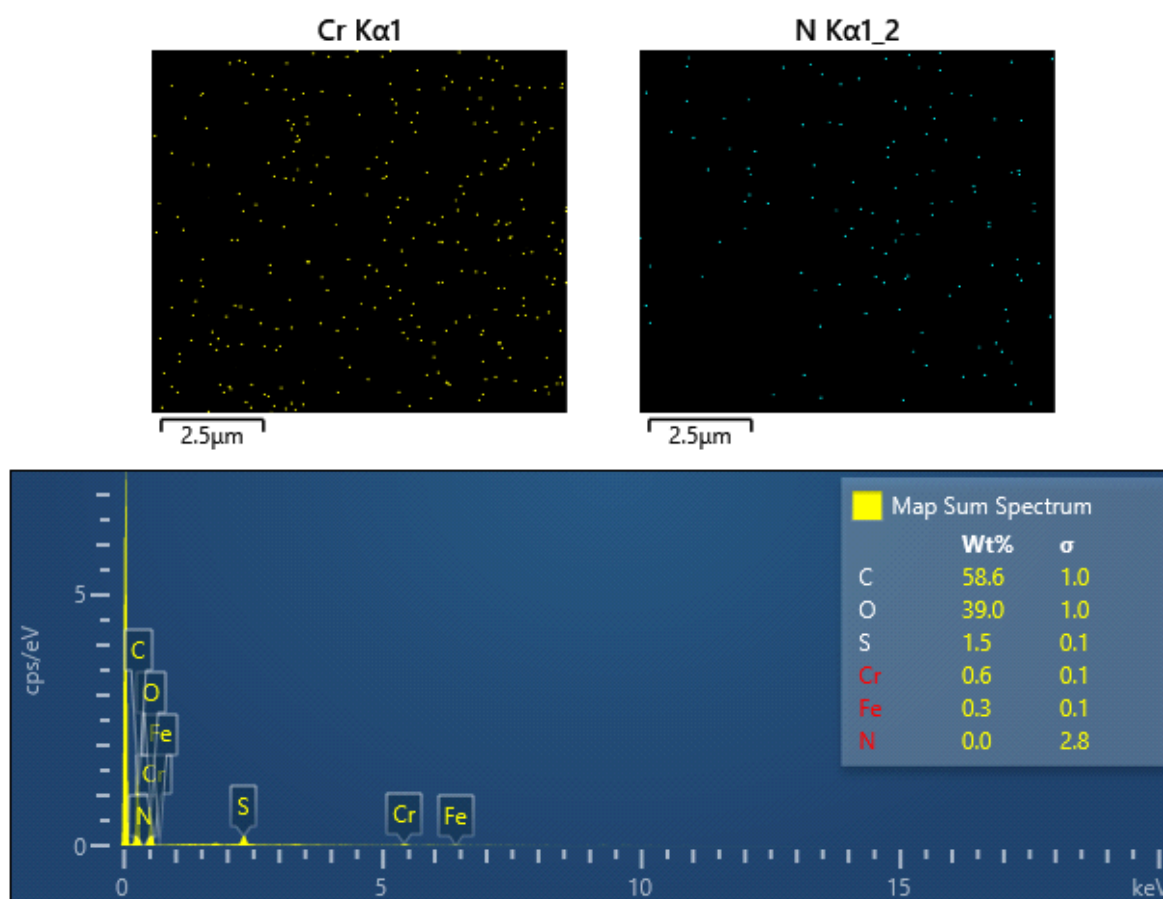


Figure S3: SEM-EDX data of the sample after adsorption. Magnification was 30000 and acceleration voltage of 20 keV used. Images taken in Low vacuum mode to enhance the quality of the images due to slight charging of the sample.