Supplementary Information

Sustainable biomass-derived activated carbons from *Rosa brunonii* seeds for high-efficiency textile dye removal from water

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S1. Specific surface area

The BET surface area was calculated from nitrogen adsorption isotherms using the BET model in the relative pressure range of 0.05–0.50. The linear BET plot of $1/[W((P0/P–1)]$ versus P/P_0 (Fig. S1) confirmed the validity of the selected fitting region and was used to determine the monolayer adsorption capacity and BET constant. In addition, the pore size distribution derived from the nitrogen adsorption data is shown in Fig. S1b, which provides further insight into the pore structure of PAC and CAC.
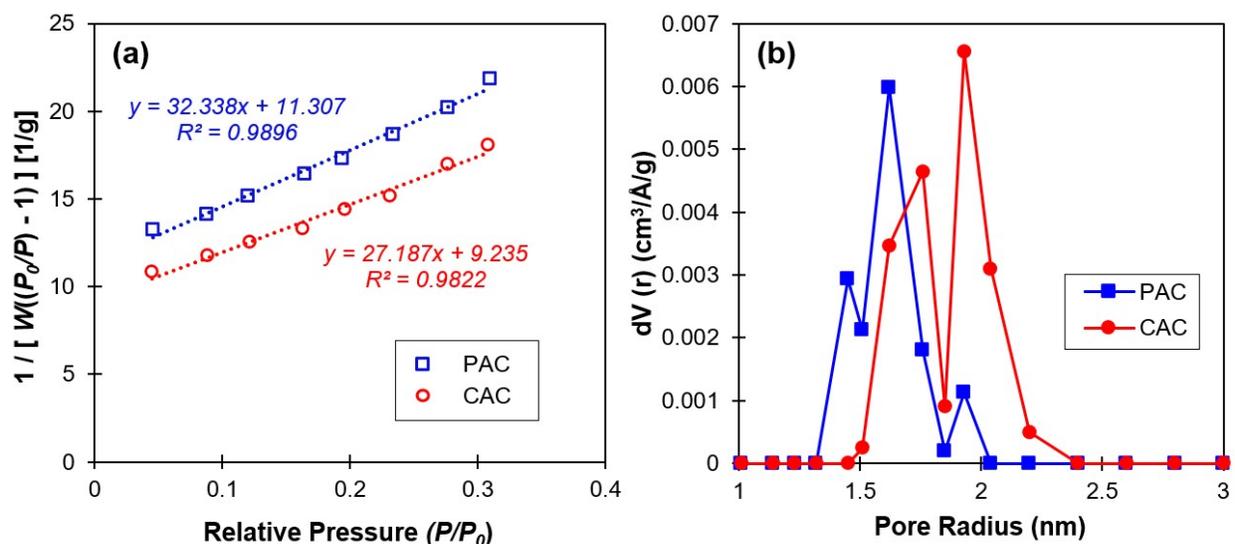
Fig. S1. (a) Linear BET plots employed for the determination of BET surface area parameters; (b) pore size distribution profiles of PAC and CAC.