

SUPPLEMENTARY MATERIALS

Surface Chemistry of Cherry Stone-Derived Activated Carbon prepared by H₃PO₄ Activation

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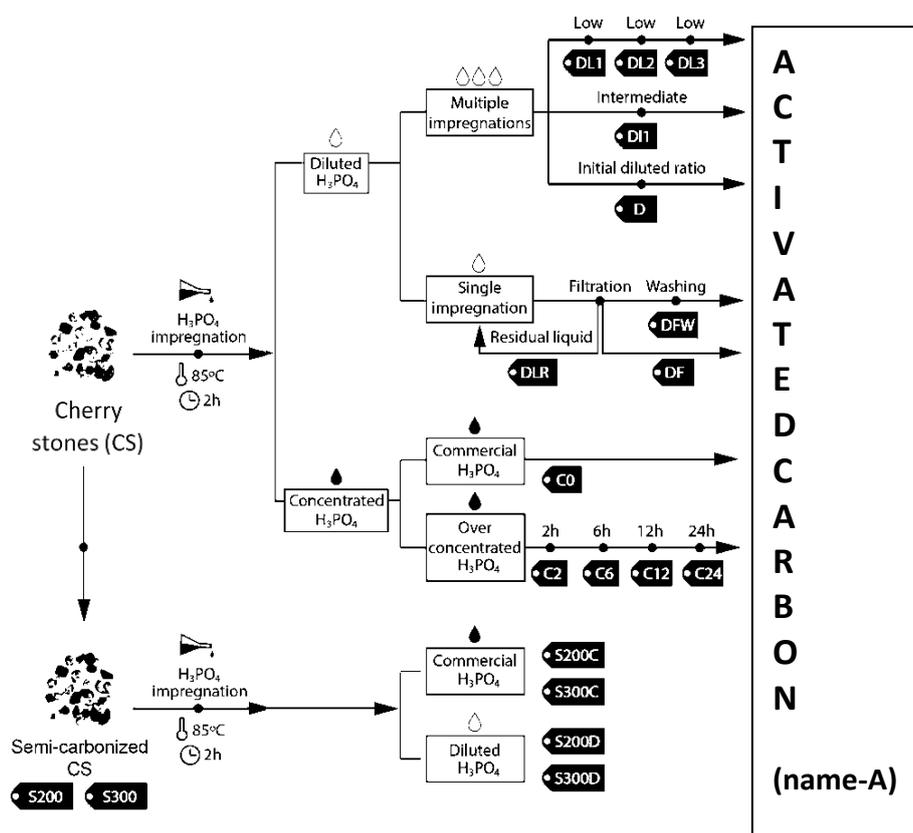


Figure S1. Graphical scheme depicting the samples preparation sequence (regarding the different impregnation methodologies with H₃PO₄). Cherry stones are impregnated either with diluted (D) H₃PO₄, of 16 g/100 mL concentration, in single or multiple (DL, DI) impregnation steps adding up a total concentration equal to D, by filtration (DF) and/or washing (DFW), and using the residual liquid as the impregnation solution (DLR); or commercial concentrated (C) H₃PO₄ of 144 g/ 100 mL concentration and their overconcentrated derived solutions by mildly heating it at different time in hours (C2, C4, etc.). The semi-carbonized cherry stones were also impregnated with either D or C H₃PO₄ solutions. All impregnated samples ended up in activated carbon samples after heat treatment at 500°C for 2h under a N₂ atmosphere. Thus, the eventual sample name would end in –A.