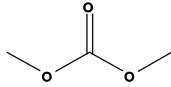
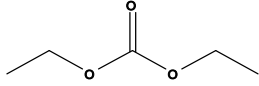
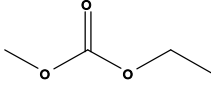
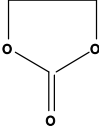
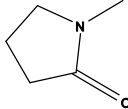


Electronic Supplementary Information

Table S1. The main composition of pollutants in the ester-containing wastewater.

Contaminants	Molecular formula	Structural formula
Dimethyl carbonate (DMC)	$C_3H_6O_3$	
Diethyl carbonate (DC)	$C_5H_{10}O_3$	
Carbonic acid ethyl methylester (CEM)	$C_4H_8O_3$	
Ethylene carbonate (EC)	$C_3H_4O_3$	
N-methylpyrrolidone (NMP)	C_5H_9NO	

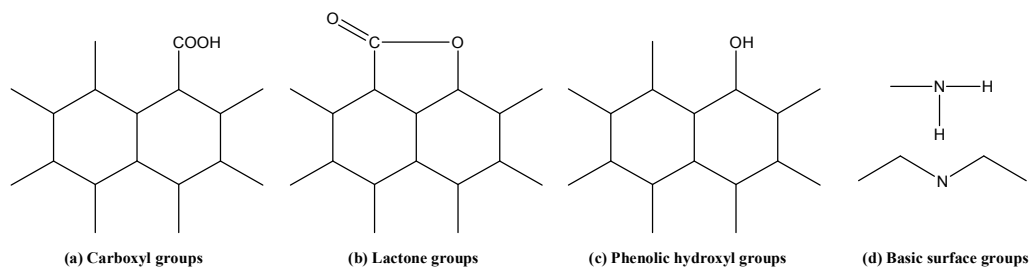


Fig. S1. The structural formula of the surface function groups of granular activated carbon (GAC).