## **Supporting Information**

## Preparation of Alkylated Carbon Dots and Its Application in Heat-not-Burn Cigarette

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## **Supplementary Data**



**Figure S1.** XPS survey of CA-SA purified by silica gel chromatography. The percentages of the two elements C and O (by atom) are given inset. Note that the element of H is invisible in this technique. The two peaks marked by the stars denote signals from the silicon wafer.

	Name	Formula	Structure	Percentage (%)
5 wt% MaA-PA			Ļ	79.9
5 wt% CA-SA	2,4,5-Trimethyl-1,3- dioxolane	$C_6H_{12}O_2$	Ř	83.9
granule-1				59.8
5 wt% MaA-PA	2,3-Pentanedione	$C_5H_8O_2$	$\overline{\mathbf{A}}_{\mathbf{a}}$	11.4
5 wt% CA-SA				8.3
granule-1				4.6
5 wt% MaA-PA			$\sim^{\circ}\sim^{\circ}$	8.7
5 wt% CA-SA	D,L-lactide	$C_6H_8O_4$		7.8
granule-1				3.6

 Table S1. The percentage content of main decomposition products at 370°C.