

Supplementary Materials

Carbonized propagation synthesis of porous CQDs-SrTiO₃/graphene and its photocatalytic performance for removal of methylene blue

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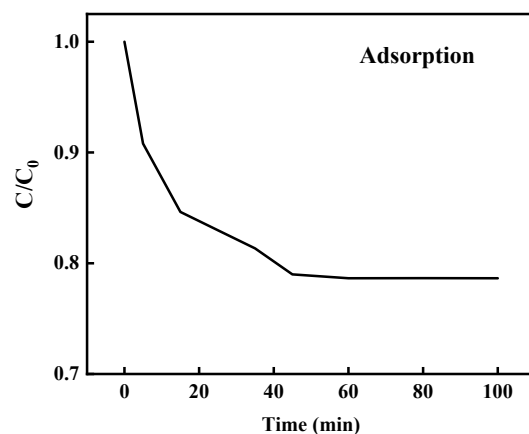


Fig. S1 The adsorption curve of CSG-5 on MB.

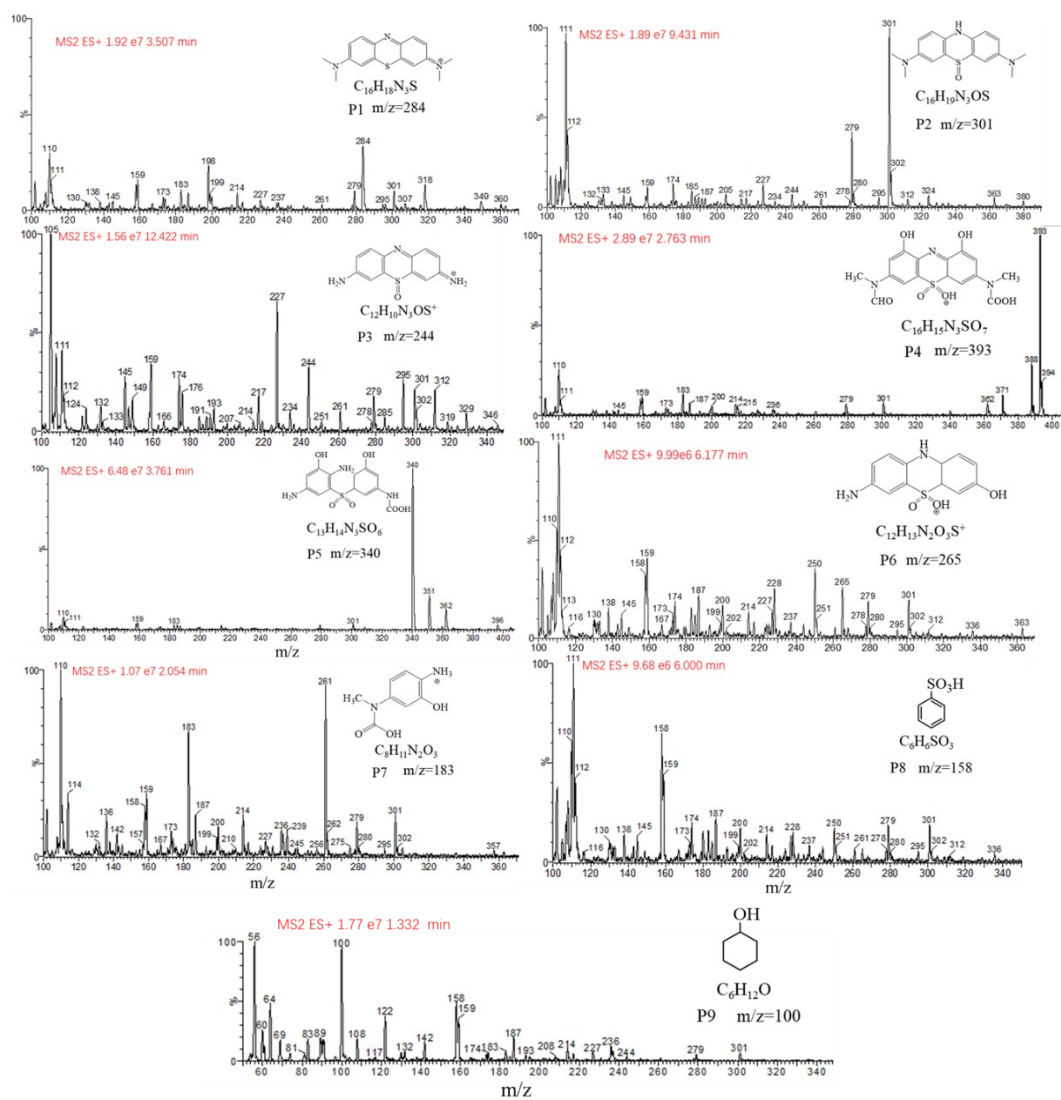
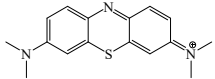
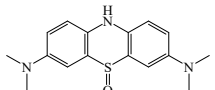
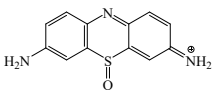
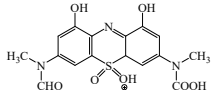
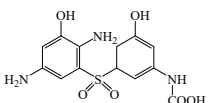
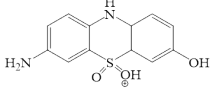
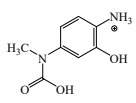



Fig. S2 Mass spectra of methylene blue (1) and the intermediate products (2-9).

Table S1 Main fragment ions obtained from MS analyses of MB and its degradation products by CSG-5

No.	Retention time t_R	m/z	Proposed formula	Proposed Structure
1	3.507	284	$C_{16}H_{18}N_3S$	
2	9.431	301	$C_{16}H_{19}N_3OS$	
3	12.422	244	$C_{12}H_{10}N_3OS^+$	
4	2.763	393	$C_{16}H_{15}N_3SO_7$	
5	3.761	340	$C_{13}H_{14}N_3SO_6$	
6	6.177	265	$C_{12}H_{13}N_2O_3S^+$	
7	2.054	183	$C_8H_{11}N_2O_3$	
8	6.000	158	$C_6H_6SO_3$	
9	1.332	100	$C_6H_{11}O$	