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Supplementary Information

 $\label{eq:continuous_sisted} Experiments \ and \ DFT \ investigation \ of \ microwave-assisted \ sol-gel \ method \ prepared \ S-doped \ g-C_3N_4 \ for \ enhanced \ photocatalytic \ degradation \ of \ gaseous \ toluene$

Anming Li¹, Xinhang Cong¹, Haotong Qin¹, Weichao Xu¹, Xuehan Zhang¹, Wenzhuang Wang¹, Feng Guo*¹

¹School of Ocean Science and Technology, Dalian University of Technology, Panjin 124221, China

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Fig. S1. The schematic of the experimental system for toluene photo-degradation.

Table S1. The C/N molar ratio of g–C $_3N_4$ and CN–S(1)

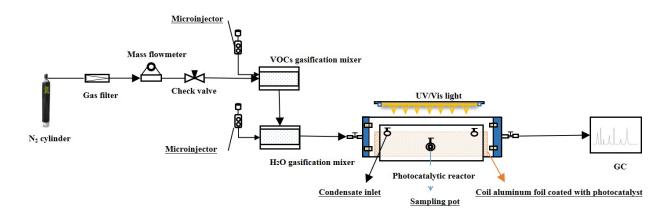


Figure S1. The schematic of the experimental system for toluene photo-degradation.

Table S1. The C/N molar ratio of g– C_3N_4 and CN–S(1)

	SP ² heterocarbon	SP ³ heterocarbon	SP ² hybrid carbon /SP ³ hybrid carbon	С%	N %	C/N molar ratio
g-C ₃ N ₄	65285.2	42670.9	2.24	42.5	55.78	0.78
CN-S(1)	86016.0	38406.2	1.5	42.8	54.37	0.81