Supporting Information

A novel electrochemiluminescence sensor based on the resonance energy transfer from MoS₂QDs@g-C₃N₄ to NH₂-SiO₂@PTCA for glutathione assay

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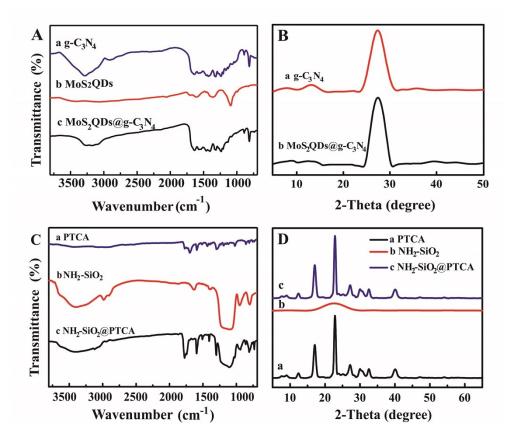


Figure S1. FT-IR spectrum (A) of (a) $g-C_3N_4$, (b) MoS_2QDs and (c) $MoS_2QDs@g-C_3N_4$. XRD pattern (B) of (a) $g-C_3N_4$ and (b) $MoS_2QDs@g-C_3N_4$. FT-IR (C) and XRD (D) of (a) PTCA, (b) NH₂-SiO₂ (c) NH₂-SiO₂@PTCA

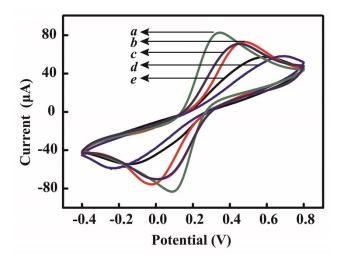


Figure S2. CV diagram of of GCE (a), NH₂-SiO₂@PTCA/GCE (b), MoS₂QDs@g-C₃N₄/GCE (c), NH₂-SiO₂@PTCA/MoS₂QDs@g-C₃N₄/GCE (d) and GSH/NH₂-

 $SiO_2@PTCA/MoS_2QDs@g-C_3N_4/GCE$ (e)

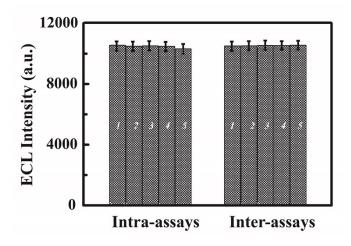


Figure S3. Reproducibility of the ECL sensor.

Table	S1 An	nlication	of the E	CL sensor	for	GSH	determ	inatior	in co	ommercial
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		sampies			
Sample	Initial amount	Found amount	Recovery	RSD	
	$(nM)^{[a]}$	(nM)	(%)	(%) (n=3)	
Commercial		9.6	96		
medicines	10	9.8	98	3.1	
		10.2	102		

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samples
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^[a]The information of initial content of GSH was obtained from the commercial liquid drug.