

One-pot hydrothermal synthesis of ZnS-reduced graphene oxide composites with enhanced photocatalytic property

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Supplementary Information List:

Fig.S1 Photographs of ZnS and ZnS-RGO composites with different weight ratios of RGO.

Fig.S2 XPS analysis of survey of GO (a) ZnS-43.6 wt.% RGO composite (b).

Fig.S3 EDX and element content in ZnS-43.6 wt.% RGO composite.

Tab.S1 Atomic percent of elements on the surface of the GO and ZnS-43.6 wt.% RGO composite determined by XPS analysis.

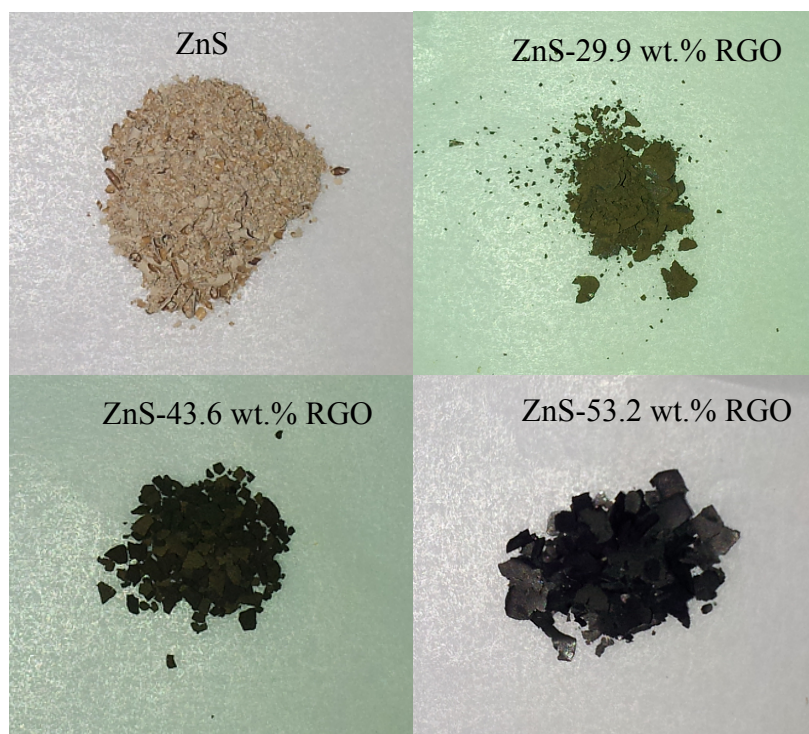


Fig.S1 Photographs of ZnS and ZnS-RGO composites with different weight ratios of RGO.

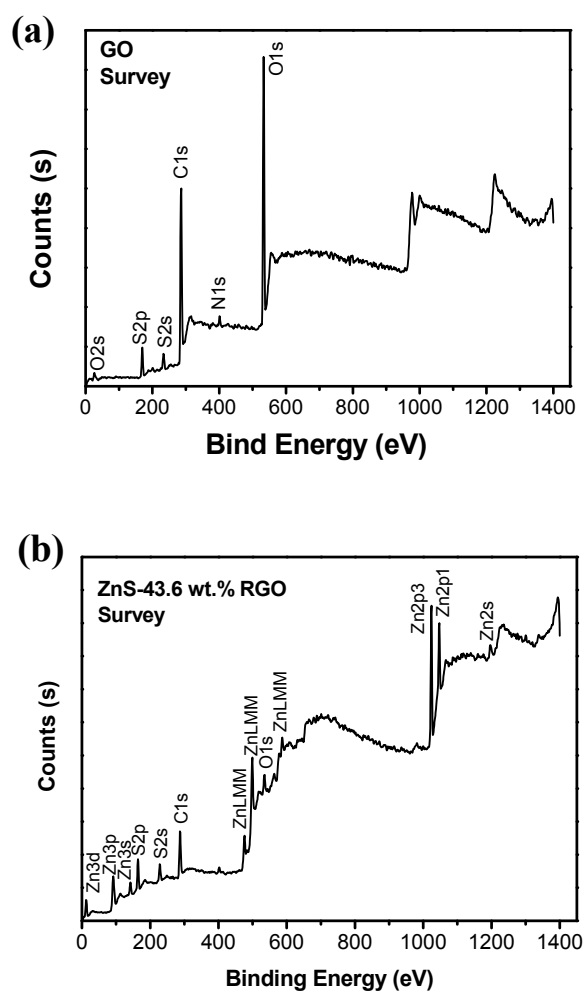
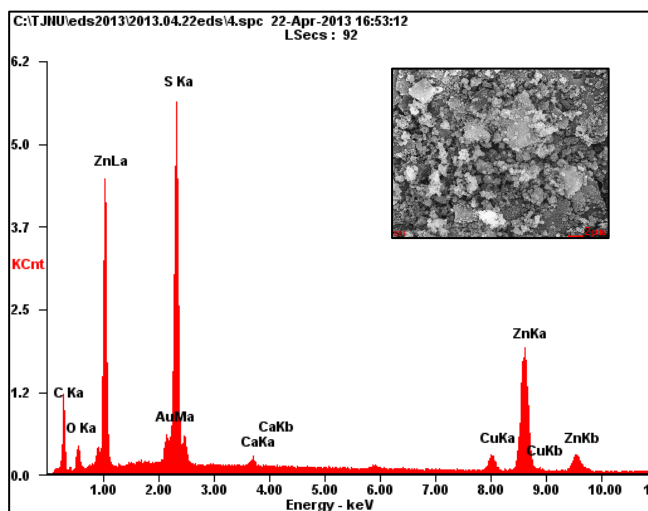


Fig.S2 XPS analysis of survey of GO (a) ZnS-43.6 wt.% RGO composite (b).



<i>Element</i>	<i>Wt%</i>	<i>At%</i>
<i>CK</i>	42.41	71.47
<i>OK</i>	05.96	07.54
<i>AuM</i>	04.25	00.44
<i>SK</i>	17.93	11.32
<i>CaK</i>	00.51	00.26
<i>CuK</i>	02.75	00.88
<i>ZnK</i>	26.20	08.11
<i>Matrix</i>	Correction	ZAF

Fig.S3 EDX and element content in ZnS-43.6 wt.% RGO composite.

Tab.S1 Atomic percent of elements on the surface of the GO and ZnS-43.6 wt.% RGO composite determined by XPS analysis.

Sample	In atomic % from XPS					
	C	O	Zn	N	S	Cl
GO	62.64	31.94	0	1.12	4.09	0.21
ZnS-43.6 wt.% RGO	60.75	8.91	11.37	4.08	14.88	0