

Supplementary Materials: Preparation of Bacterial Cellulose/Ketjen Black-TiO₂ Composite Separator and Its Application in Lithium-Sulfur Batteries

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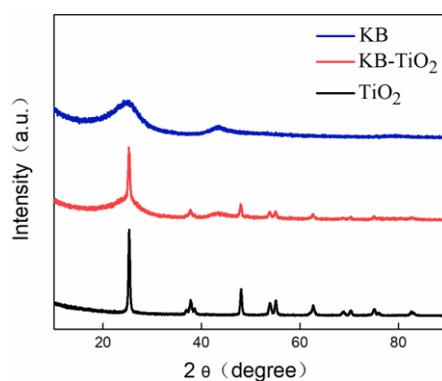


Figure S1. XRD pattern of KB-TiO₂ composite.

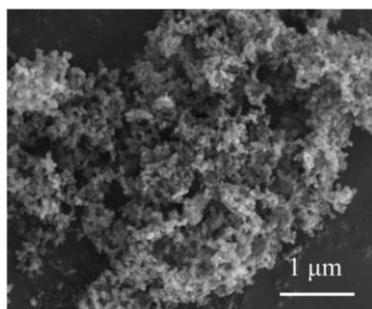


Figure S2. SEM image of KB-TiO₂ composite.

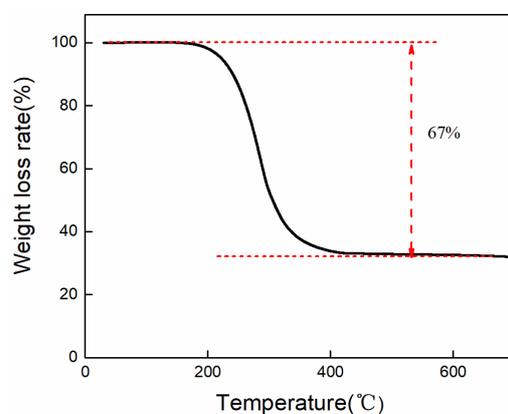


Figure S3. TGA diagram of KB/S composites.

Table S1. Performance comparison between batteries with BKT separator and batteries with other separators.

Sample	Sulfur surface density (mg/cm ²)	Rates	Initial capacity (mAh × g ⁻¹)	References
H-TiO ₂ @rGO@PP	1.6	0.3C	1037.9	Ref. [43]
KB@ZIF-8/PP	1.2	0.1 C	1235.6	Ref. [14]
CBC/TiO ₂ modified separator	1.5	0.2C	1314	Ref. [44]
BKT	1.0	0.5C	1180	This paper