**Jute stick extract assisted hydrothermal synthesis of zinc oxide nanoflakes and their enhanced photocatalytic and antibacterial efficacy**

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***TGA analysis***

The TGA was primarily used to track the prepared NFs' thermal stability over the temperature range from room temperature to 800 °C in an ambient (air) setting. The weight losses of J−ZnO NFs were about 2% and those of ZnO NFs were about 4% which indicated higher stability of J−ZnO NFs than ZnO NFs (Ramesh *et al.,* 2015, Abdalkarim *et al.*, 2018, Zhou *et al.*, 2016). Therefore, the TGA analysis confirmed the highly stable nature of the J−ZnO NFs at high temperatures.



**Fig. S1.** The TGA curve of ZnO and J−ZnO NFs was recorded between 30–800 °C in an ambient (air) atmosphere.

**References**

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