

Electronic Supplementary Information

## Bioinspired synthesis of Ag@TiO<sub>2</sub> plasmonic nanocomposites to enhance the light harvesting of dye-sensitized solar cells

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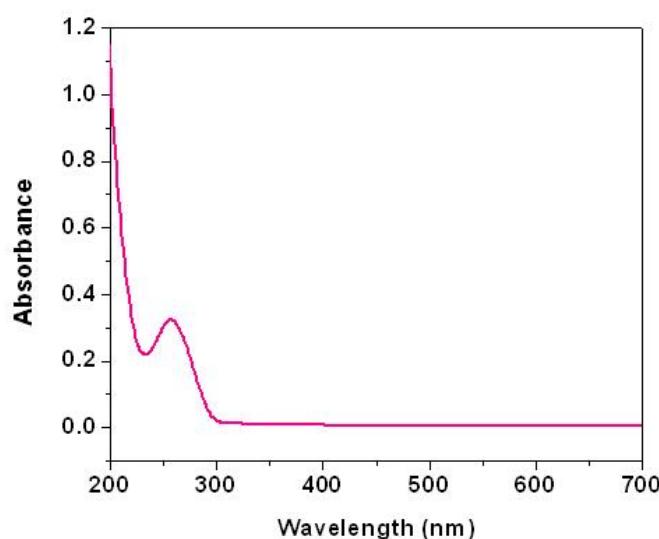
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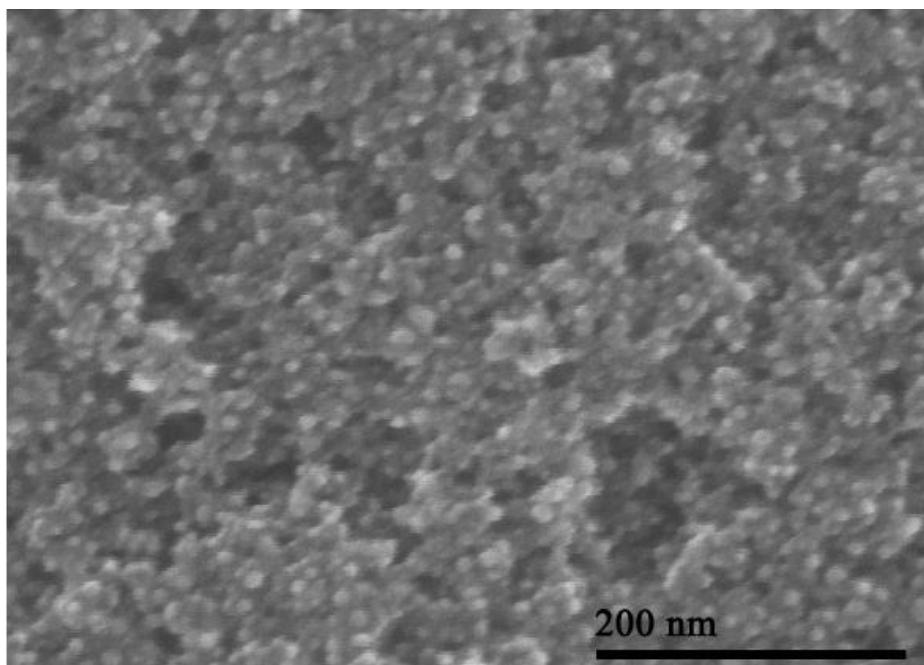
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**Fig. S1** UV-vis absorption spectrum of collected plasmid DNA. The plasmid DNA has an absorption band at ~260 nm, which is consistent with the absorption band of DNA.<sup>1</sup> The concentration of the plasmid DNA is calculated based on the absorption values of Uv-vis absorption spectra.<sup>2</sup>



**Fig. S2** FESEM image of Ag@TiO<sub>2</sub> plasmonic nanocomposites.

## References

- 1 S. Kundu, K. Wang, D. Huitink and H. Liang, *Langmuir* 2009, **25**, 10146-10152.
- 2 H. Suzuki, T. Amano, T. Toyooka and Y. Ibuki, *Environ. Sci. Technol.* 2008, **42**, 8076-8082.