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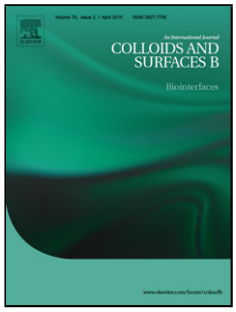

Title: Biocompatible Fe^{3+}–TA Coordination Complex with High Photothermal Conversion Efficiency for Ablation of Cancer Cells

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Biocompatible Fe^{3+}–TA Coordination Complex with High Photothermal Conversion Efficiency for Ablation of Cancer Cells

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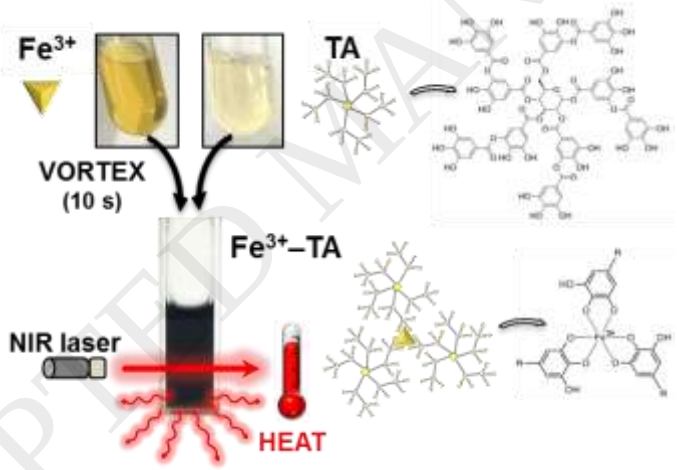

Graphical abstract: Schematic of the synthetic route of Fe^{3+}–TA (Tannic Acid) complex with significant photothermal effect upon near-infrared (NIR) laser irradiation.

Highlights

- Fe^{3+}–TA complex was synthesized rapidly by a one-step method with natural reagents.
- Fe^{3+}–TA complex exhibited a photothermal conversion efficiency as high as 77.3%.
- Fe^{3+}–TA complex showed excellent photothermal stability and ultralow cytotoxicity.
- The photothermal ablation efficacy of Fe^{3+}–TA is adequate to photothermal therapy.

ABSTRACT