

Structural Engineering of Layered 2D Nanomaterials for Cancer Therapy

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Owning to their unique structures, layered two-dimensional (2D) nanomaterials have emerged as a new type of promising biomaterials for biomedical applications, especially in cancer diagnosis and therapy.¹ In last few years, we have done a series of works on the structural engineering of layered 2D nanomaterials at atomic level to achieve high-performance biomedical applications. In this talk, I will present my research work on the structural engineering of layered nanomaterials (i.e., layered metal oxides and layered double hydroxides) for cancer therapy including photothermal therapy, catalytic therapy and photodynamic therapy.²⁻¹⁰

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