Title of Project : Template-directed synthesis of novel supramolecular architectures and their applications as smart materials

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Short Description

This project will be focused on supramolecular chemistry and their materials applications. The research will cover several aspects: (1) template-directed synthesis of novel supramolecular architectures such as polyrotaxanes, polycatenanes, molecular necklace, rotaxane dendrimers and molecular switches; (2) their self-assembly and switching behavior in films, on surface and in solution; (3) their applications as smart materials for drug delivery/release, gene delivery, responsive surface materials, and RGB displays etc....