

عنوان مقاله:

Synthesis of Peptide-Based Nanomaterial Drown from Calix[4]arene Supramolecular Assembly as Catalyst

محل انتشار:

پنجمین کنگره ملی شیمی و نانوشیمی از پژوهش تا فناوری (سال: 1401)

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خلاصه مقاله:

With improved grasp of designing rules for self-assembling peptides, new challenges are encountered to include these materials into dynamic systems of higher quality and functionality. Peptides are engaging building block because of the necessary domains of natural protein assemblies to be isolated and optimized whereas holding the initial structures and functions. Moreover, the peptide subunits may be conjugated with exogenous molecules e.g. peptides and nanoparticles to come up with advanced functions with targeted of optimized delivery behavior and increased therapeutic impact. This study reviews and introduces recent advances in supramolecular designs of nanoscale drug delivery and investigates the coordination chemistry of supramolecular calix[4]arenes and explicit attention is given to the utilization of the ensuing complexes in terms of catalysis. This research presents a new design of Nano-drug and its delivery and examines the performance of calix[4]arene supramolecular assembly as catalyst. The results show that emerging supramolecular calix[4]arenes can be helpful as a drug carrier in Peptide-Based Nanomaterials.

کلمات کلیدی:

Supramolecular catalysts, Peptide based nanomaterials, drug delivery, Calix[4]arene

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