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Recent Advances in Self-Assembled Peptides

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Message from the Guest Editor

Peptides, as the molecular building blocks, can be either de novo designed or engineered, based on naturally derived sequences that self-assemble into highly ordered nanostructures and nanostructured networks. From fundamental viewpoint, the self-assembly strategy, in combination with new peptide design principles and chemistry has provided powerful tools to fabricate a wide range of thermodynamically stable and kinetically trapped nanostructures, as well as dynamic and smart nanostructures and materials in response to specific triggers. From practical applications viewpoint, the main focus is to develop optimal functionality of self-assembled peptides. Pre-functionalization of the molecular building blocks and post-modification of the self-assembly are both effective methods to endow functions on self-assembled peptides and both are being extensively explored with regard to a variety of nanotechnological and biotechnological applications.

This Special Issue aim to collect original and review articles on peptide self-assembly, multidisplinary studies offering new principles, methodologies/strategies and insights are particularly welcome.

Assoc. Prof. Dr. He Dong
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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