Special Issue

Recent Advances in Self-Assembled Peptides

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, multidisplinnary studies offering new principles, methodologies/strategies and insights are particularly welcome.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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