

Special Issue

Self-Assembly Peptide Nanostructures

Message from the Guest Editor

In the last few years, peptide nanostructures have seen an explosion of interest, caused by extensive application in biomedicine (tissue engineering, antimicrobial activity, therapeutic peptides and vaccines, peptide-assisted drug delivery) and in bio-inspired nanotechnology (peptide-inorganic hybrids, peptide nanoparticles, peptide quantum dots). On the fundamental side, remarkable advancement of the knowledge of the mechanisms governing peptide self-assembly for generating nanostructures of different morphology (self-assembled monolayers, nanotubes, fibrils, nanowires) has also been achieved. This Special Issue aims to highlight the state-of-art of the research activity on the design and utilization of peptide nanostructures, gathering a collection of distinctive reviews and research articles concerning both fundamental and applicative aspects of the field. I am confident that this publication will be of interest not only for the restricted community of peptide scientists, but it will intercept the attention of the broader interdisciplinary audience working on biomedicine and bionanotechnology.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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