Special Issue

Synthesis and Application of Microcapsules

Message from the Guest Editor

Microencapsulated systems, based on polymer or inorganic shell and active substances, appear to be good candidates for a broad range of applications. The recent progress in controlled microencapsulation techniques have greatly facilitated the synthesis of well-defined microcapsules with tailored functionalities. Microcapsule shells and their functionality may finally be used to modulate surface functions. All these benefits are currently fully exploited for new tailored microparticles for applications in drug delivery, self-healing, thermal energy storage, cosmetics, functional coating, and material science, where they are used for the design of functional, responsive, or high added-value materials. This Special Issue is motivated by the observed increasing interest shown by various research groups in this field. It will give a global vision of researchers and share the latest results on the synthesis and characterization, giving rise to a special interest in their applications in basic and industrial processes.

- Nano/Microencapsulation process
- Coating process of encapsulated materials
- Colloid and formulations
- Emulsion-based processes

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.

Editor-in-Chief

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