



## Novel In Situ Synthesis of Advanced Functional Materials

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

A remarkable amount of functional materials has been elaborated due to the synergetic coupling of different components (molecular precursors, colloids, (bio)-organic molecules, polymers, complex fluids, templating agents, liquid crystalline phases, etc.) and the development of processing and patterning techniques (electrodeposition, chemical/physical vapor deposition, extrusion, lithography, etc.).

A promising method for the preparation of these materials is afforded by the in-situ synthesis approach in which the synthesis and self-assembly of components take place in one-step procedure together with the shaping of materials.

This Special Issue is intended to cover novel in-situ synthesis approaches of a wide range of functional materials differing by their composition (inorganic or organic solids, hybrids, polymers, composites, etc.), texture (porous or dense) and functionality. Therefore, the rational design of materials requires the understanding of their growth mechanism which can be studied by sampling and characterizing the reaction medium by in-situ or ex-situ methods at different times.

Prof. Dr. Nathalie Steunou  
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## Message from the Editor-in-Chief

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