Special Issue

Modelling and Simulation of Chemical Processes

Message from the Guest Editor

With the advancement of different strategies to develop new and efficient materials, it is important to have a strong understanding of all aspects that influence the chemical processes. As the use of experimental procedures is, in the majority of cases, a heavy resource consuming activity, its combination with advanced modelling and optimization techniques can lead to new insights regarding the internal mechanisms governing the systems and can lead to significant breakthroughs and process improvements. In this context, this Special Issue aims to be a forum of dissemination for works focusing on expanding the knowledge (gained in experimental analysis or simulation) through different modelling, optimization and/or control strategies, with areas of interest that include, but are not limited to: design of experiments, statistical analysis, mechanistic models, computing and artificial intelligence approaches. Studies both theoretical or empirical in nature are welcome.

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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