

Special Issue

Structured Catalysts for Catalytic Processes Intensification

Message from the Guest Editor

Process intensification is “any chemical engineering development that leads to a substantially smaller, cleaner and more energy-efficient technology”. In this direction, in the present issue, we want to report the application of structured catalysts as a viable solution in the process intensification. In recent years, the spread of structured catalysts even in the most traditional processes of the chemical industry has certainly been one of the most interesting technological innovations in heterogeneous catalysis. In particular, the possibility of making such carriers with different complex geometric structures, and with different types of materials with very well defined physical properties, generated many considerations on the potential effects on the performances of the catalytic reactor. The special issue covers a wide range of different aspects related structured catalysts and reactors, starting by catalyst preparation and characterization, experimental tests results and mathematical modeling, and innovative applications as membrane catalytic reactors.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2018)



Catalysts

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Impact Factor 4.0
CiteScore 7.6



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