



Multi-Scale Analysis of Advanced Catalytic Systems

Guest Editors:

Dr. Hamid Reza Godini

Eindhoven University of
Technology, Department of
Chemical Engineering and
Chemistry, Membranes and
Membrane Reactors Research
Group, Helix-west, Eindhoven,
Netherlands
Technische Universität Berlin,
Chair of Process Dynamic &
Operation, Straße des 17. Juni
135, Sekr. KWT-9, D-10623 Berlin,
Germany

Prof. Dr. Fausto Gallucci

Inorganic Membranes and
Membrane Reactors, Sustainable
Process Engineering, Department
of Chemical Engineering and
Chemistry, Eindhoven University
of Technology, 5612 AZ
Eindhoven, The Netherlands

Deadline for manuscript
submissions:

closed (30 September 2020)

Message from the Guest Editors

Dear Colleagues,

In this special issue, the applied analysis methodologies and the case study-processes, specially the novel and advanced individual and integrated catalytic systems, will be discussed. Such analysis usually comprised characterizing the catalytic systems, including dual catalysts, and their reaction performance indicators. Dimensional analysis, transport phenomena, separation potential, reaction kinetic etc. are the aspects to be also taken into analysis in such context in terms of their impacts on the technical/ecological/economic performance of the system.

Analysis of different types of reactive systems from standard fixed-bed reactor up to integrated reactive-separation systems for co-feed or distributed feeding systems in a single or multiphase gas/liquid heterogeneous catalytic structures are covered in this special issue. The focus of the conducted researches can be on the catalyst, reactor, reactive-separation, process integration and intensification etc. Therefore, research articles covering these areas in catalytic systems are very welcome for being evaluated and included in this Special Issue of Catalysts.

