

Special Issue

Metal Modified and Acidic Mesoporous Catalytic Materials for Valorization of Lignocellulosic Biomass, Synthesis of Speciality, Fine Chemicals and Pharmaceuticals

Message from the Guest Editors

Metal modified and acidic structured mesoporous materials such as MCM-41, MCM-48, MCM-50, MCM-36 and SBA-15 due to uniform pores, regular channel systems, high surface area, shape selectivity property, as well as Brønsted and Lewis acid sites, are utilized in the organic synthesis, petro-chemical industry, the purification of industrial waste water and solving environmental problems. Synthesis parameters such as time, temperature, pH of the gel solutions, sources of silica, alumina, surfactants, structure directing agents, methods of stirring and thermal treatments substantially influence the physico-chemical and catalytic properties. The SI invites original research papers on following topics: Structured mesoporous materials; Metal modified and acidic mesoporous materials; MCM-41, MCM-48, MCM-50, MCM-36, SBA-15; Synthesis and characterization of structured and non-structured mesoporous materials; Physico-chemical characterizations; Fine chemicals, speciality and pharmaceuticals; Petro-chemicals, environmental catalysis; Renewables, biofuels, jet fuels, biodiesels

Guest Editors

Dr. Narendra Kumar

Faculty of Science and Engineering, Laboratory of Industrial Chemistry and Reaction Engineering, Åbo Akademi University, Henriksgatan 2, FI-20500 Turku, Finland

Dr. Emilia Paone

Dipartimento DICEAM, Università degli Studi Mediterranea di Reggio Calabria, 89123 Reggio Calabria, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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