Name Dr Satyanarayana Chilukuri

Senior principal Scientist

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Subjects Catalysis, Inorganic chemistry, Physical chemistry

Educational qualifications and experience

Achievements

Ph.D Indian Institute of Technology, Bombay.

M.Sc Physical Chemistry, Andhra University, Waltair

1998-todate Scientist, Catalysis Division, NCL

1991- 1998 Research Scientist, IIT Powai, Mumbai-76

 Developed zeolite based applications for green chemical synthesis and petrochemical conversions

• H<sub>2</sub> generation catalysts for fuel cells through steam reforming, autothermal reforming and water gas shift reactions.

• Carbon dioxide utilization through CO<sub>2</sub> reforming of methane.

Selective oxidation of hydrocarbons using mixed oxide catalysts

Utilization of Biomass to produce chemicals and fuels

• Development of catalysts for Green chemical processes.

 Catalysts for selective oxidation and oxydehydrogenation of hydrocarbons.

• Synthesis gas generation through steam reforming, CO<sub>2</sub> reforming, Catalytic partial oxidation and ATR.

 Incorporation of Zr in medium-pore aluminophosphate molecular sieves with AFO Framework. Microporous and Mesoporous Materials 137 (2010) 65-71

 Copper-based catalysts for water gas shift reaction: Influence of support on their catalytic activity. Catal Today 141 (2009) 72-76

 Cu-Ce mixed oxides supported on Al-Pillared clay: Effect of preparation on catalytic activity in the preferential oxidation of carbon monoxide. Appl catal B: Envi 84 (2008) 21

 Selective ortho-methylation of phenol with methanol over copper manganese mixed oxide spinel catalysts. J Catal 243 278 (2006).

 Oxidative dehydrogenation of ethylbenzene using nitrous oxide over vanadia–magnesia catalysts.
Catal. Sci. Technol., 1 (2011) 1262

Research Areas of Interest

Relevant publications

