



Education

B.S., 2005, Chemistry, Physics and Mathematics, Sri Venkateswara University, Tirupati, India

M.S., 2007, Chemistry, National Institute of Technology (NIT)-Warangal, Telangana, India

Ph.D, 2012, Chemical Science and Engineering, National Institute for Materials Science (NIMS), Tsukuba, in collaboration with Hokkaido University, Sapporo, Japan.

Biography

Dr. Siddulu Naidu Talapaneni was born in Siddanakonduru, Andhra Pradesh, India, in 1985. He received BSc degree, first class with distinction from Sri Venkateswara University, Tirupati, Andhra Pradesh, India in 2005. He studied MS in Chemistry from 2005-2007 at the National Institute of Technology-Warangal (NIT-Warangal), Telangana, India. He obtained his MS thesis in the group of Dr. K. R. Justin Thomas from Chemistry department at the Indian Institute of Technology-Roorkee (IIT-Roorkee), India. From 2007–2009, he worked as a Research Associate in GVK Biosciences Private Limited, Hyderabad, India. Then, he moved to Japan in 2009 and completed PhD in July 2012 on functional mesoporous nitride materials for the selective adsorption and catalysis in the group of Prof. Ajayan Vinu at the World Premier International Center for Materials Nanoarchitectonics (WPI-MANA) in National Institute for Materials Science (NIMS), a number one materials science institute in Japan based at Tsukuba, Japan in collaboration with Hokkaido University, Sapporo, Japan. After finishing PhD in Japan, he joined as the research scientist in the group of Dr. Svetlana Mintova at the laboratory of catalysis and spectrochemie (LCS), ENSICAEN in Caen, France to work on fabrication of defect free nanosized functional zeolite materials for the selective detection of automobile exhausts. Later in 2014, he moved to the Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea to work with Prof. Ali Coskun in the Multifunctional Organic NanoArchitectures (MONA) lab and remained there until 2016 for mainly working on the preparation of multifunctional nanoporous materials for gas adsorption, battery electrodes and supercapacitors before moving to the Prof. Ajayan Vinu nanomaterials group at University of South Australia (UniSA), Adelaide, Australia.

Research Interests:

Fabrication of novel metal free microporous and mesoporous materials mainly contain Carbon and Nitrogen such as COPs, CTFs, COFs and mesoporous carbon and carbon nitride (MCN) materials having various pore textures and different pore diameters towards adsorption/separation, energy conversion and storage and heterogeneous catalytic applications.