Name	Paresh L. Dhepe
Division	Catalysis Division
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Education and experience

- PhD at Hokkaido University, Japan (Heterogeneous Catalysis)
- Post doctoral fellow, Japan
- Synthesis and characterization of heterogeneous catalysts
- Utilization of biomass for the synthesis of chemicals
- Analysis of sugar compounds
- Materials synthesis (mesoporous and microporous)

Achievements

- Ph.D. student won the best publication award in year 2010

Research subjects

Green Chemistry, Biomass conversion, Heterogeneous catalysis

Research Area

- Green chemistry: Conversion of biomass (renewable feedstock) into value-added chemicals by environmental friendly routes (Green pathways).
- Catalyst designing: Synthesis and characterization of mesoporous silicas, supported metal nanostructures and solid acids.
- Catalysis: Hydrolysis, hydrogenolysis, hydrogenation, Hydroxylation, oxidation, dehydrocyclization, isomerization reactions by heterogeneous catalysts.

Recent publications

- R. Sahu, and P. L. Dhepe, A one-pot method for the selective conversion of hemicellulose from crop waste into C5 sugars and furfural by using solid acid catalysts, *ChemSusChem*, DOI: 10.1002/cssc.201100448 (2012).

- H. Kobayashi, Y. Ito, T. Komanoya, Y. Hosaka, P. L. Dhepe, K. Kasai, K. Hara and A. Fukuoka, “Synthesis of Sugar Alcohols by Hydrolytic Hydrogenation of Cellulose Over Supported Metal Catalysts” *Green Chem*. 13 (2011) 226.

- P. L. Dhepe and R. Sahu, “A Solid Acid Based Process for the Conversion of Hemicellulose” *Green Chem*., 12 (2010) 2153.