

Bio-data



Dr. Dharmendra Pandey

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Date of Birth	25/08/1977
Educational Qualification	B. Tech. (Chemical Engineering), I.E.T., C.S.J.M. University, Kanpur M. Tech. (Chemical Engineering), Indian Institute of Technology Bombay Ph.D. (Chemical Engineering), Indian Institute of Technology Kanpur
Experience	Assistant Professor in the Department of Chemical Engineering at Birla Institute of Technology, Mesra, Ranchi from February 2015 to April 2020 Lecturer in the Department of Chemical Engineering at U. I. E. T., C. S. J. M. University, Kanpur from February 2014 to February 2015

Specialization	Supported and Unsupported Bimetallic Catalysts: Synthesis, Characterization and Reactivity; Statistical Methodologies for Process Optimization; Molecular Dynamics
Publication	• International Journals: 05 (SCI) • International Conference: 05 • National Conference: 07
Workshop Organized	01
Country Visited	USA, Germany
Number of Projects Guided	M. Tech: 01 B. Tech: 18
External Sponsored Research Projects	“Synthesis and Characterization of Biomaterials and Nano Materials and its Application in Heavy Metal Removal from Wastewater”, (2019) Sponsor Agency: MHRD, Amount: 16.24 Lakh (Ongoing)
Award	Best Faculty Award by VDGGOOD Professional Association, India

Paper in International Journals:

- Gyanesh Kumar, Aishanee Pattnaik, Saksham Sehgal, Koustuv Ray and **Dharmendra Pandey**, “Thermodynamic equilibrium analysis on oxidative dehydrogenation of propane using CO₂: Finding a suitable reactant ratio for propylene formation”, Journal of Indian Chemical Society 97 (2020) 409-413.
- **Dharmendra Pandey**, Koustuv Ray, Rahul Bhardwaj, Sreedhar Bojja, K.V.R. Chary and Goutam Deo, “Promotion of Unsupported Nickel Catalyst using Iron for CO₂ methanation”, International Journal of Hydrogen Energy 43 (2018) 4987-5000.
- **Dharmendra Pandey** and Goutam Deo, “Effect of support on the catalytic activity of supported Ni-Fe catalysts for the CO₂ methanation reaction”, Journal of Industrial and Engineering Chemistry, 33 (2016) 99–107.
- **Dharmendra Pandey** and Goutam Deo, “Determining the Best Composition of a Ni-Fe/Al₂O₃ Catalyst Used for the CO₂ Hydrogenation Reaction by Applying Response Surface Methodology”, Chemical Engineering Communications, 203 (2016) 372–380.

- **Dharmendra Pandey** and Goutam Deo, “Promotional Effects in Alumina and Silica Supported Bimetallic Ni-Fe Catalysts during CO₂ Hydrogenation”, Journal of Molecular Catalysis A: Chemical 382 (2014) 23-30.

Paper in International Conferences:

- S. Basu, A. K. Sen, M. Mukherjee and **D. Pandey**, “Dehydration of Glycerol to Acetol by Silica Supported Phosphate Catalyst”, International Conference on Chemical Engineering and Advanced Polymeric Material 2016, Birla Institute of Technology, Mesra, Ranchi, India.
- Koustuv Ray, **Dharmendra Pandey**, Bahadur Singh, Rajendra Prasad and Goutam Deo, “A Computational Approach to Understand the Promotional Effect in Ni-Fe Bimetallic Catalyst”, XII European Congress on Catalysis 2015, Kazan, Russia.
- **Dharmendra Pandey** and Goutam Deo, “Promotion of Alumina Supported and Unsupported Nickel Catalysts using Iron”, 15th International Congress on Catalysis 2012, Munich, Germany.
- **Dharmendra Pandey** and Goutam Deo, “Promotion of Nickel Catalyst using Iron for CO₂ Hydrogenation Reaction”, 2nd Indo-German Workshop 2012, Magdeburg, Germany.
- **Dharmendra Pandey** and Goutam Deo, “CO₂ Methanation over Supported Bimetallic Ni-Fe Catalysts: Effect of Support and Total Metal Loading”, AIChE Annual Meeting 2011, Minneapolis, Minnesota, USA.

Paper in National Conferences:

- Sudhir C. Nayak, **Dharmendra Pandey** and Goutam Deo, “Catalytic Ozone Decomposition using Alumina Supported Transition Metal Oxide Catalysts”, Chemcon 2012, Jalandhar, India.
- **Dharmendra Pandey**, Atul Oraon and Goutam Deo, “Hydrogenation of CO₂ over Supported Bimetallic Ni-Fe Catalysts”, Chemcon 2011, Bangalore, India.
- **Dharmendra Pandey** and Goutam Deo, “CO₂ Hydrogenation over Unsupported and Alumina Supported Ni-Fe Catalysts”, Chemcon 2011, Bangalore, India.
- **Dharmendra Pandey** and Goutam Deo, “In situ FTIR Investigations of CO₂ Methanation Reaction Activity over Supported Bimetallic Ni-Fe Catalysts”, Chemcon 2009, Visakhapatnam, India.
- **Dharmendra Pandey** and Goutam Deo, “CO₂ Methanation over Supported Bimetallic Ni-Fe Catalysts”, CHEMREFERENCE 2009, I. I. T. Madras, Chennai, India.
- **Dharmendra Pandey** & A. K. Suresh “Pulse combustion: A technique for better heat recovery with low pollution level”, IEI’07 Lucknow.
- **Dharmendra Pandey** and A. K. Suresh, “Pulse Combustion: Heat transfer Studies in a Rijke Tube”, Chemcon 2004, Mumbai, India.

International Journals Refereed:

- International Journal of Hydrogen Energy (Elsevier)
- Journal of CO₂ Utilization (Elsevier)
- Catalysis Science & Technology (Royal Society of Chemistry)

