

# Chitrita kundu

## Assistant Professor



### Key Research Areas:

- Thermodynamics
- Polymer Science and Technology
- Monte Carlo Simulation
- Molecular Dynamics

### Contact:

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**Location:** Room No. – **CH 302** (Chemical Engineering Building)

### Education:

**M.E.** (Chemical Engineering), Jadavpur University, Kolkata, India, 2011

**B.E.** (Chemical Engineering), Jadavpur University, Kolkata, India, 2008

### Major Research Interest (s):

- Low-cost ceramic membrane and its application
- Light weight ceramics fabrication and its application
- Catalytic membrane & membrane reactor
- Nanofluids fabrication & its application

### Publication (s):

#### Peer Reviewed Journals:

- **Kundu, C.,** Dasmahapatra, A. K., 2017, Crystallization of double crystalline diblock copolymer on thin films (Under Preparation)
- **Kundu, C.,** Dasmahapatra, A. K., 2016, Crystallization of diblock copolymer from microphase separated melt (Under Review)
- **Kundu, C.,** Dasmahapatra, A. K., 2015, Crystallization of double crystalline diblock copolymer by Dynamic Monte Carlo Simulation, Macromol. Symp. 354, 314-323.
- **Kundu, C.,** Dasmahapatra, A. K., 2014, Effect of block asymmetry on the crystallization of double crystalline diblock copolymer, J. Chem. Phys. 141, 044902.
- **Kundu, C.,** Dasmahapatra, A. K., 2014, Crystallization of double crystalline symmetric diblock copolymer, Polymer 55, 958-969.

### International Conferences:

- **C. Kundu** and A. K. Dasmahapatra, "Crystallization of diblock copolymer from microphase separated melt", CCP-2015, IIT Guwahati, December 02-05, 2015.
- **C. Kundu** and A. K. Dasmahapatra, "Confinement induced crystallization of diblock copolymer", FAPS-IPC 2015, Kuala Lumpur, Malaysia, October 05-08, 2015.
- **C. Kundu** and A. K. Dasmahapatra, "Composition dependent crystallization behavior of diblock copolymer", MACRO-2015, IACS, Kolkata, January 23-26, 2015.
- **C. Kundu** and A. K. Dasmahapatra, "Crystallization of double crystalline diblock copolymer Studied by Dynamic Monte Carlo Simulations", MACRO-2014, Chiang Mai, Thailand, July 06-11, 2014.
- **C. Kundu** and A. K. Dasmahapatra, "Crystallization of diblock copolymer studied by Dynamic Monte Carlo simulation", MACRO-2013 at IISc, Bangalore, May 15–18, 2013.

### Awards & Recognitions:

- Best Poster Presentation award in CCP 2015, at Indian Institute of Technology Guwahati, Assam, India.
- Best Poster Presentation award in MACRO 2015, at Indian Association of Cultivation of Science, Kolkata, India.
- Best Paper Presentation award in Reflux 2014, at Indian Institute of Technology Guwahati, Assam, India.
- Best Poster Presentation award in Reflux 2014, at Indian Institute of Technology Guwahati, Assam, India.
- International Travel Support (provided by Department of Science and Technology) to attend FAPS-IPC 2015, at Kuala Lumpur, Malaysia.
- International Travel Support (provided by CICS, Chennai) to attend FAPS-IPC 2015, at Kuala Lumpur, Malaysia.
- Senior Research Fellow (provided by DST, New Delhi) in Indian Institute of Technology Guwahati from August, 2011 to August 2014.

### Present and Positions Held:

- **Assistant Professor:** Durgapur Institute of Advanced Technology and Management, August 2017-present

### Courses Taught:

#### UG Course (s)

Energy Technology  
Process Modelling & Simulation  
Chemical Reaction Engineering  
Numerical Analysis

#### UG Laboratory

Energy Technology  
Reaction Engineering