

## Resume

**Dr. Diwakar Pandey**  
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### PRESENT PROFILE:

I have been working as an assistant professor in chemical engineering department in the BIT Sindri since 17<sup>th</sup> January 2022.

### ACADEMIC QUALIFICATIONS:

**Ph.D.** in Chemical Engineering (July 2016 to July 2021) from **IIT (BHU)** Varanasi, India.  
**Research Area: Post-combustion CO<sub>2</sub> capture**

**M.Tech.** in Chemical Engineering from **IIT (BHU)** Varanasi, India.

**B.Tech.** in Chemical Engineering from **B.I.E.T.** Jhansi, U.P., India.

### RESEARCH PUBLICATIONS IN SCI/SCIE JOURNALS:

1. **Diwakar Pandey** and Monoj Kumar Mondal, Thermodynamic modeling and new experimental CO<sub>2</sub> solubility into aqueous EAE and AEEA blend, heat of absorption, cyclic absorption capacity and desorption study for post-combustion CO<sub>2</sub> capture, *Chemical Engineering Journal (Elsevier Publication)*, (2021), 410, 128334. **Impact factor: 13.273**
2. **Diwakar Pandey** and Monoj Kumar Mondal, Experimental data and modeling for density and viscosity of carbon dioxide (CO<sub>2</sub>)-loaded and -unloaded aqueous blend of 2-(ethylamino)ethanol (EAE) and aminoethylethanolamine (AEEA) for post-combustion CO<sub>2</sub> capture, *Journal of Molecular Liquids (Elsevier Publication)*, (2021), 330, 115678. **Impact factor: 6.165**
3. **Diwakar Pandey** and Monoj Kumar Mondal, Viscosity, density, and derived thermodynamic properties of aqueous 2-(ethylamino)ethanol (EAE), aqueous aminoethylethanolamine (AEEA), and its mixture for post-combustion CO<sub>2</sub> capture, *Journal of Molecular Liquids (Elsevier Publication)*, (2021), 332, 115873. **Impact factor: 6.165**
4. Shweta Singh, **Diwakar Pandey**, and Monoj Kumar Mondal, New experimental data on equilibrium CO<sub>2</sub> loading into aqueous 3-dimethyl amino-1-propanol and 1,5-diamino-2-methylpentane blend: Empirical model and CO<sub>2</sub> absorption enthalpy, *Journal of Chemical & Engineering Data (ACS Publication)*, (2021), , 66, 740-748. **Impact factor: 2.694**
5. **Diwakar Pandey** and Monoj Kumar Mondal, Equilibrium CO<sub>2</sub> solubility in the aqueous mixture of MAE and AEEA: Experimental study and development of modified thermodynamic model, *Fluid Phase Equilibria (Elsevier Publication)*, (2020), 522, 112766. **Impact factor: 2.775**
6. **Diwakar Pandey** and Monoj Kumar Mondal, Experimental data and modeling for viscosity and refractive index of aqueous mixtures with 2-(methylamino)ethanol (MAE) and

aminoethylethanolamine (AEEA), *Journal of Chemical & Engineering Data (ACS Publication)*, (2019), 64, 3346-3355. **Impact factor: 2.694**

#### **WORKSHOPS AND CONFERENCES ATTENDED:**

- Participated in a workshop on “Inclusion in Smart city Planning of India of Renewable energy & Energy efficiency (InSPIRE) held on 25<sup>th</sup> March 2017 at IIT (B.H.U.) Varanasi.
- **Diwakar Pandey** and Monoj Kumar Mondal, “CO<sub>2</sub> solubility studies in an aqueous blend of diethylethanolamine and trisodium phosphate.” in CHEMCON-2018 (International Conference), held at NIT Jalandhar during December 27-30, 2018.
- **Diwakar Pandey**, Shailesh Kumar and Monoj Kumar Mondal “Absorption of carbon dioxide in aqueous blend of dimethylethanolamine and aminoethylethanolamine” in the national conference on “Recent Trends in Chemical Engineering and Environmental Protection” held at B.I.E.T. Jhansi on March 30,2019.

#### **FIELDS OF INTEREST:**

- Heat Transfer, Chemical Engineering Thermodynamics, Mass Transfer, Chemical Reaction Engineering, Process Calculations
- CO<sub>2</sub> capture, Bio-gas purification, Industrial Pollution Control

#### **EXPERIENCE:**

- Worked as a **Guest Lecturer of Chemical Engineering in B.I.E.T. Jhansi** from 22-01-2013 to 23-5-2013 and from 5-8-2013 to 21-6-2014

#### **ACHIEVEMENTS:**

- Published 6 research papers in the Science Citation Index (SCI) journals of the Q1 quartile indexed
- Qualified 8 times in the Graduate Aptitude Test in Engineering (GATE) with a very good score in the Chemical Engineering discipline

#### **HOBBIES:**

- Listening Hindi songs and Playing Cricket

#### **PERSONAL DETAILS:**

**Father** : Vijay Prakash Pandey  
**Mother** : Rita Pandey  
**Sex** : Male  
**Nationality** : Indian  
**Languages Known** : Hindi, English  
**Permanent Address** : Gorakhpur, Uttar Pradesh, India

I hereby declare that the above furnished details are true and correct to the best of my knowledge and belief.

DIWAKAR PANDEY