

PUBLICATIONS

SCI Journal

1. Kumar S., and Mondal M.K., “Equilibrium solubility of CO₂ in aqueous blend of 2-(diethylamine)ethanol and 2-(2-aminoethylamine)ethanol,” *Journal of Chemical & Engineering Data*, 2018, v. 63, pp.1163-1169.
2. Kumar S., and Mondal M.K., “Equilibrium solubility of CO₂ in aqueous binary mixture of 2-(diethylamine)ethanol and 1,6-hexamethyldiamine,” *Korean Journal of Chemical Engineering*, 2018, v. 35, pp. 1335-1340.
3. Kumar S., and Mondal M.K., “Selection of efficient absorbent for CO₂ capture from gases containing low CO₂,” *Korean Journal of Chemical Engineering*, 2020, v. 37, pp. 231-239.
4. Kumar S., Padhan R., and Mondal M.K., “Equilibrium solubility measurement and modelling of CO₂ absorption in aqueous blend of 2-(Diethyl amino) ethanol and ethylenediamine”, *Journal of Chemical & Engineering Data*, 2020, v. 65, pp. 523-531.

Book Chapter

1. Kumar S., and Mondal M.K., “Chapter 3: Mass transfer and kinetics of CO₂ absorption into Alkanolamines” (Book: Carbon Dioxide Capture: Processes, Technology and Environmental Implications), *Nova Science Publishers Inc.*, USA (2016).

Conferences

1. Poster presented at “*Institute Day*” on February 26-27, 2015 at Department of Chemical Engineering and Technology, IIT (BHU), Varanasi, India.
2. Poster presented at “*Institute Day*” on April 2-3, 2016 at Department of Chemical Engineering and Technology, IIT (BHU), Varanasi, India.
3. Paper presented at “*69th Annual Session of Indian Institute of Chemical Engineers CHEMCON*” on December 27-30, 2016 at A.C. Tech Anna University, Chennai, India.
4. Poster presented at “*International conference on Bio-Innovation for Environmental and Health Sustainable Developments*” on November 27-28, 2018 at CSIR-Indian Institute of Toxicology Research, Lucknow, India.

Workshops

1. Participated in A *National Symposium* on topic “Research methodology for future researchers” organized by IIT BHU, on March 22, 2015.
2. Participated in An *Author Workshop* jointly organized by Springer, BHU, and IIT BHU, on October 2016.
3. Participated in A *Workshop* on topic “Inclusion in smart city planning of India of renewable energy& energy efficiency (InSPIRE)” organized by Department of Chemical engineering and Technology, IIT BHU, on March 27, 2017.
4. Participated in a *Short Term course* on topic “Statistical analysis and Simulation using MATLAB organized by Society of Chemical engineers, IIT BHU on March 19-24, 2018.