
Name: Ziaul Haque Ansari, Ph.D.

Position: Assistant Professor

Unit: Department of Applied Sciences and Chemical Engineering,
Pulchowk Campus, Institute of Engineering, Tribhuvan University
Lalitpur, Nepal



Contact Information:

Mobile/WhatsApp/Viber: (+977) 9851323439

Email: ziaul.ansari@pcampus.edu.np

Research Identifiers:

ORCID: 0009-0006-0263-3700

Google Scholar: <https://scholar.google.com/citations?user=ke4WYLgAAAAJ&hl=en>

LinkedIn: <https://np.linkedin.com/in/ziaul-haque-ansari-7a281b100>

EDUCATION

Ph.D. in Chemical Engineering

Institute of Process Engineering, University of Chinese Academy of Sciences (UCAS), Beijing, China [2018]

M.S. in Chemical Engineering and Technology

Beijing University of Chemical Technology, Beijing China [2013]

B.Sc. in Chemical Engineering

University of Engineering and Technology, Lahore Pakistan [2001]

RESEARCH INTEREST

Thermodynamic modeling, Polymorphism, Crystallization kinetics, Hydrometallurgy, Density function model

PUBLICATIONS

1. Ziaul Haque Ansari and Zhibao Li. (2016). Solubilities and modeling of glycine in mixed NaCl–MgCl₂ solutions in a highly concentrated region. *J. Chem. Eng. Data.*, 61: 3488–3497. [DOI: 10.1021/acs.jced.6b00403](https://doi.org/10.1021/acs.jced.6b00403)
2. Ziaul Haque Ansari, Yan Zeng, Yan Zhang, George P. Demopoulos, and Zhibao Li. (2017). Modeling of glycine solubility in aqueous HCl–MgCl₂ system and its application in phase transition of glycine by changing media and supersaturation. *J. Cryst. Growth.* 467: 116–125. <https://doi.org/10.1016/j.jcrysgro.2017.03.037>
3. Ziaul Haque Ansari and Zhibao Li. (2017). Solid–liquid equilibria for the Glycine–Alcohol–NaCl–H₂O system. *J. Chem. Eng. Data.* 62, 3551–3560. [DOI: 10.1021/acs.jced.7b00549](https://doi.org/10.1021/acs.jced.7b00549)
4. Ziaul Haque Ansari, Yan Zeng, George P. Demopoulos and Zhibao Li. (2018). Nucleation kinetics of MgCl₂–ethanol adduct for the supported Ziegler–Natta catalysts with a thermodynamic approach. *J. Cryst. Growth.* 494: 44–52. <https://doi.org/10.1016/j.jcrysgro.2018.05.007>.
5. Di Zhou, Ziaul Haque Ansari and Jianguo Mi. (2013). Modeling of bubble nucleation of an air–water mixture near hydrophobic walls. *Journal of Physics: Condensed Matter.* 25, 184004. [DOI 10.1088/0953-8984/25/18/184004](https://doi.org/10.1088/0953-8984/25/18/184004).

Book Chapters

1. Ziaul Haque Ansari and Uttam Bista. (2023). Hazards Associated with Industrial Effluents and Its Mitigation Strategies. *Anthropogenic Environmental Hazards Compensation and Mitigation.* (pp 89-117). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-41013-0_5.

SELECTED CONFERENCE PRESENTATIONS

1. Ziaul Haque Ansari (2024). Modeling of glycine solubility in aqueous HCl–MgCl₂ system and its application in phase transition of glycine by changing media and supersaturation. International Conference on **Advanced Functional Materials (ICAFM)**. Kathmandu, Nepal Materials Science Society

TEACHING EXPERIENCE

- Assistant Professor Nov 2020 – Present
Applied Sciences and Chemical Engineering, Institute of Engineering, Pulchowk Campus, Tribhuvan University, Nepal
Teaching Subjects: Chemical Engineering Thermodynamics, Chemical Process Technology, Chemical Process Calculation, Maintenance Engineering and Safety, Equipment Design, Plant Design
Deputy Head of Department: 4 years
Course Design: B. E. Chemical Engineering Course Structure Design, Detailed Syllabus Design.
Laboratory Facilities: Establishing B. E. Chemical Engineering lab.
Internship: Facilitated Internship for B. E. Chemical Engineering students.

- Lecturer Sept 2018 – Oct 2020
Chemical Science and Engineering, Kathmandu University, Nepal
Teaching Subjects: Chemical Engineering Thermodynamics, Chemical Process Technology, Chemical Process Safety, Renewable Energy

AWARDS & HONORS

- Excellent International Student Award, IPE, UCAS.

SERVICE & LEADERSHIP

- Member of Delegation for signing of Memorandum of Understanding (MOU) with IIT Roorkee, India for Department of Applied of Applied Sciences and Chemical Engineering, Pulchowk Campus. June, 2022.
- Peer Reviewer: Journal of The Institution of Engineers (India): Series E, Chemical and Textile Engineering, Springer.
- Advisor, AIChE, I.O.E Student Chapter

PROFESSIONAL AFFILIATIONS

- Member, American Institute of Chemical Engineers (AIChE)
 - Board member, Society of Chemical Engineers' Nepal (SOCHEN)
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