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EDUCATION AND ACADEMIC TRAINING

- Post-doctoral Research Associate, Department of Civil, Construction and Environmental Engineering, **Iowa State University**, Ames, IA; Mar 2002- Feb 2004.
Research focus: Bioenergy and Biobased Products, and Waste-to-Bioenergy
- Doctor of Philosophy, **The Hong Kong University of Science and Technology**, Hong Kong; Feb 1998 - Feb 2002.
Major: Civil Engineering (Environmental Engineering)
- Master of Engineering (M.S.), **Asian Institute of Technology**, Bangkok, Thailand; Jan 1996-Aug 1997.
Major: Environmental Engineering (Water/Wastewater Eng.) Ranking: top 5%
- Bachelor of Engineering (*First class with honors*), **Malaviya National Institute of Technology** (formerly, Malaviya Regional Engineering College), Jaipur, India; Sep 1988 - Jan 1993.
Major: Civil Engineering Ranking: top 5%
- Proficiency Certificate Level (*First class with distinction in physics, chemistry and mathematics*), **Tribhuvan University**, Kathmandu, Nepal; Jun 1985 - Aug 1987.
Major: Science Ranking: top 5%

PUBLICATIONS

Books

- Anaerobic Digestion Series - Advances in Bioenergy Vol. 5. (eds. Yebo Li and Samir Kumar Khanal). Elsevier Inc. USA (Jun 2020; 344 pp).
- Current Developments in Biotechnology and Bioengineering: Sustainable Bioresources for Emerging Bioeconomy. (eds. Rupam Kataki, Ashok Pandey, Samir Kumar Khanal and Deepak Pant). Elsevier Inc. USA. (Jul 2020; 536 pp).
- Current Developments in Biotechnology and Bioengineering: Resource Recovery from Wastes. (eds. Sunita Varjani, Ashok Pandey, Edgard Gnansounou, Samir Kumar Khanal, Sindhu Raveendran). Elsevier Inc. USA Jan 2020; 481 pp).
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- Bioenergy and Biofuel from Biowastes and Biomass. (Bestseller, American Society of Civil Engineers) (Apr 2010; 505 pp); Lead Editor and Contributor. <http://www.asce.org/Product.aspx?id=2147487587>

Book Chapters

- Wongkiew, S., Hu, Z., Hua, N. T., and Khanal, S.K. 2020. Aquaponics for resource recovery and organic food productions. In Current Developments in Biotechnology and Bioengineering: Sustainable Bioresources for Emerging Bioeconomy. (eds. Rupam Kataki, Ashok Pandey, Samir Kumar Khanal and Deepak Pant). Elsevier Inc., USA. Pp 475-494.
- Khanal, S.K., Nindhia, T.G.T., and Nitayavardhana, S., Biogas from wastes: processes and applications. 2019. In Sustainable Resource Recovery and Zero Wastes Approaches. (eds. Mohammad Taherzadah, Kim Bolton, Jonathan Wong and Ashok Pandey). Elsevier Inc., USA. Pp 165-174.
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- Andrade Cruz, I., Chuenchart, W., Long, F., Surendra, K.C., Renata Santos Andrade, L., Bilal, M., Liu, H., Tavares Figueiredo, R., Khanal, S.K., Fernando Romanholo Ferreira, L. Application of machine learning in anaerobic digestion: Perspectives and challenges (2022) *Bioresource Technology*, 345, art. no. 126433.
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- Zeng, Q., Zan, F., Hao, T., Khanal, S.K., Chen, G. Sewage sludge digestion beyond biogas: Electrochemical pretreatment for biochemicals (2022) *Water Research*, 208, art. no. 117839.
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- Zeng, Q., Wang, Y., Zan, F., Khanal, S.K., Hao, T. Biogenic sulfide for azo dye decolorization from textile dyeing wastewater (2021) *Chemosphere*, 283, art. no. 131158.
- Siddiqui, M.A., Biswal, B.K., Saleem, M., Guan, D., Iqbal, A., Wu, D., Khanal, S.K., Chen, G. Anaerobic self-forming dynamic membrane bioreactors (AnSFDMBRs) for wastewater

treatment – Recent advances, process optimization and perspectives (2021) *Bioresource Technology*, 332, art. no. 125101.

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