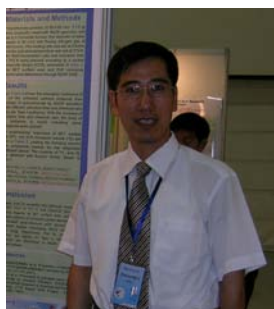


# CURRICULUM VITAE



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## DEGREES

Ph.D. in Chemical Engineering – Nagoya University, Japan, 2002

Master in Mechanical Engineering – Tianjin Institute of Light Industry, 1994

Bachelor in Mechanical Engineering - Tianjin Institute of Light Industry, 1990

## PROFESSIONAL AFFILIATIONS

Editorial Board Member, The Open Journal of Mechanical Engineering

Chair, The 7th Asia-Pacific Drying Conference (ADC'2011)

Member, The International Scientific Committee, International Technical-Scientific Conference "Energy-Saving Technologies for Drying, Hygro-Thermal and Thermal Processing (DHTP)"

Member, Packing and Food Processing Engineering Institution, CMES

Vice Director, Science Education Section, China Light Industry Machinery Association

## PROFESSIONAL CAREER

2004 – Present Professor, Tianjing University of Science & Technology

2002 – 2004 Postdoctoral fellow, Center for Integrated Research in Sci. & Eng., Nagoya University

1995 – 1998 Lecturer, Dept. of Mech. Eng., Tianjin Institute of Light Industry

1994 – 1995 Assistant, Dept. of Mech. Eng., Tianjin Institute of Light Industry

1990 – 1991 Technician, Datong Coal Mining Bureau, Shanxi Province

## TEACHING ACTIVITIES

Process Principles and Equipment, Fundamentals of Mechanical CAD Technology, Recent Developments in Chemical Process Equipment, Energy & Environment, Fluidization Engineering Principles, Powder Technology, Numerical Heat Transfer & Fluid Flow

## RESEARCH INTERESTS

## SELECTED RECENT PUBLICATIONS

### Book Chapters (in Chinese):

1. Li, Z.Y. et al. 2007. Drying with induction heating, Contact-sorption drying, Dielectric drying, Heat pump drying & chemical heat pump, Drying of sludge, Drying of ceramics, Drying of polymers. In: **Modern Drying Technology**, 2<sup>nd</sup> Edition (eds. Y.K. Pan, X.Z. Wang, and X.D. Liu). Chemical Industry Press, China (ISBN 9787502593612 ).
2. Kudra, T. and Mujumdar, A.S. (Translated by Li, Z.Y.) 2005. **Advanced Drying Technologies**, 283p, Chemical Industry Press, China (ISBN 7-5025-7403-4 ).
3. Li, Z.Y. and Pan, Y.K. 2003. Novel dryers. In: **Drying Technique & its Industrial Application** (eds. Z.W. Cao, Z.S. Tian, G.W. Liu), pp. 25-36. China Petrochemical Press (ISBN 7-80164-418-2 ).
4. Li, Z.Y. et al. 1998. Other special drying technologies, Drying of polymers, Microwave and radio frequency drying, Innovation and trend of drying technologies (Translated). In: **Modern Drying Technology** (eds. Y.K. Pan and X.Z.Wang). Chemical Industry Press, China (ISBN 7-5025-2046-5/TQ.1011 ).

### Referred Journal Publications (in English):

1. Li, Z.Y., F. An, J.S. Ye, Z.H. Wu, P.F. Dong; "Thin-Layer Drying of Fermentation Spent Liquor Using Corn Bran Adsorbent". *Drying Technology*, 28: (2010, In Press)
2. Wang, R.F., Z.Y. Li, W.G. Su, J.S. Ye; "Comparison of Microwave Drying of Soybean in Static and Rotary Conditions," *International Journal of Food Engineering*, 6 (2), Article 2. (2010).
3. Li, Z.Y., Y.H. Li, J.S. Ye, N. Kobayashi; "Numerical Evaluation of the Non-isothermal Method for Determination of Moisture Diffusivity," *International Journal of Food Engineering*, 6 (1), Article 9 (2010)
4. Li, Z.Y., W.G. Su, Z.H. Wu, R.F. Wang, A. S. Mujumdar; "Investigation of Flow Behaviors and Bubble Characteristics of a Pulse Fluidized Bed via CFD Modeling", *Drying Technology*, 28: 1, 78-93 (2010)
5. Wang, R.F., Z.Y. Li, et al. Soybean drying characteristics in microwave rotary dryer with forced convection. *Frontiers of Chemical Engineering in China*, 3 (3), 289-292 (2009)
6. Wang, C.L., L. Li, Z.Y. Li. Optimization of Osmotic Dehydration of Toona Sinensis Leaves Using Response Surface Methodology. *International Journal of Food Engineering*, 4(5), article 4 (2008)
7. Ye, Jingsheng; Luo, Qiaojun; Li, Xiaolan; Xu, Qing; and Li, Zhanyong (2008) "Sorption Drying of Soybean Seeds with Silica Gel in a Fluidized Bed Dryer," *International Journal of Food Engineering*: Vol. 4 : Iss. 6, Article 3.
8. Ma, D.G., S.T. Zhang, and Z.Y. Li. Control of Sludge-to-Wall Adhesion by Applying a Polarized Electric Field. *Drying Technology*, 24(4), 639-643 (2007)
9. Li, Z.Y., J.S. Ye, H.T. Wang, R.F. Wang. Drying characteristics of green peas in fluidized beds. *Transactions of the TSTU*, 12(3), 668-675 (2006)
10. Huang, H.Y., N. Kobayashi, R. Fujisawa, Z.Y. Li, F. Watanabe, M. Hasatani, M. Kamiyama, T. Otsuka, A. Ariizumi; "Study of Basic and Safety Characteristics of the Dechlorination of PCBs by the Sodium Dispersion Process," *Journal of Environment and Engineering*, 1 (1), 1-8 (2006)
11. Li, Z.Y., and N. Kobayashi; "Determination of Moisture Diffusivity by Thermo-

- Gravimetric Analysis under Non-Isothermal Condition", *Drying Technology*, 23(6), 1331-1342 (2005)
12. Li, Z.Y., N. Kobayashi, A. Nishimura and M. Hasatani; "A Method to Predict the Minimum Fluidization Velocity of Binary Mixtures Based on Particle Packing Properties", *Chemical Engineering Communications*, 192 (7), 918-932 (2005)
  13. Li, Z.Y., N. Kobayashi, and M. Hasatani; "Characteristics of Pressure Fluctuations in a Fluidized Bed of Binary Mixtures", *Journal of Chemical Engineering of Japan*, 38(12), 960-968 (2005)
  14. Li, Z. Y. and N. Kobayashi; "Determination of Moisture Diffusivity by Thermo-Gravimetric Analysis under Non-Isothermal Condition", *Drying Technology*, 23(6), 1331-1342 (2005).
  15. Li, Z. Y. N. Kobayashi, and M. Hasatani; "Modeling of Diffusion in Ellipsoidal Solids: a Comparative Study", *Drying Technology*, 22 (4), 649-675 (2004).
  16. Li, Z. Y. N. Kobayashi, S. Deguchi, F. Watanabe, and M. Hasatani; "Investigation on Drying Kinetics in a Pulsed Fluidized Bed", *Journal of Chemical Engineering of Japan*, 37 (9), 1179-1182 (2004).
  17. Li, Z. Y., J. S. Ye, N. Kobayashi, and M. Hasatani; "Modeling of Diffusion in Ellipsoidal Solids: A Simplified Approach", *Drying Technology*, 22 (10), 2219-2230 (2004).
  18. Li, Z.Y., N. Kobayashi, A. Nishimura, and M. Hasatani; "Sorption Drying of Soybean Seeds with Silica Gel. Part 1: Hydrodynamics of a Fluidized Bed Dryer", *Drying Technology*, 20 (6), 1193-1213 (2002)
  19. Li, Z.Y., N. Kobayashi, F. Watanabe, and M. Hasatani; "Sorption Drying of Soybean Seeds with Silica Gel", *Drying Technology*, 20 (1), 223-233 (2002)
  20. Hasatani, M., N. Kobayashi, and Z.Y. Li; "Review: Drying and Dewatering R & D in Japan," *Drying Technology*, 19 (7), 1223-1251 (2001)
  21. Pan, Y.K., Z.Y. Li, A.S. Mujumdar and T. Kudra; "Analogy of Heat and Mass Transfer for Drying Hygroscopic Particles in Vibrated Fluid Beds," *Bulletin of the Polish Academy of Science-Technical Science*, 48 (3), 463-474 (2000)
  22. Pan, Y.K., Z.Y. Li, A.S. Mujumdar and T. Kudra; "Drying of a Root Crop in Vibro-Fluidized Beds," *Drying Technology*, 15 (1), 215-223 (1997)
  23. Pan, Y.K., H. Wu, Z.Y. Li, A.S. Mujumdar and T. Kudra; "Effect of a Tempering Period on Drying of Carrot in a Vibro-Fluidized Bed," *Drying Technology*, 15 (6-8), 2037-2043 (1997)
  24. Pan, Y.K., J.Z. Pang, Z.Y. Li, A.S. Mujumdar and T. Kudra; "Drying of Photosynthetic Bacteria in a Vibrated Fluid Bed of Solid Carriers," *Drying Technology*, 13 (1&2), 395-404 (1995)