

이 원 재

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EDUCATION

- 08/2000 – 12/2005 Ph.D., Chemical Engineering, Texas A&M University, College Station
Dissertation: Ethylbenzene dehydrogenation into styrene: kinetic modeling and reactor simulation (Co-advisors: Prof. Rayford G. Anthony and Prof. Gilbert F. Froment)
- 03/1996 – 02/1998 M.S., Chemical Engineering, POSTECH
Thesis: Hydrodesulfurization over molybdenum nitrides (Mo_2N) supported on alumina coated with SiC (Advisor: Prof. Jae Sung Lee)
- 03/1989 – 02/1996 B.S., Chemical Engineering, Sungkyunkwan University

PROFESSIONAL EXPERIENCE

- 01/2006 – present Project Leader, Corporate R&D, LG Chem Research Park, Daejon
- 02/1998 – 06/2000 Researcher, LG Institute of Environment, Safety and Health, Seoul

PUBLICATION

JOURNAL PAPER

1. S. Yang, M. Kim, S. Yang, D. S. Kim, W. J. Lee and H. Lee. Production of acrylic acid from biomass-derived allyl alcohol by selective oxidation using Au/ceria catalysts. *Catal. Sci. Technol.* **6**, 3616-3622, 2016.
2. W. J. Lee and G. F. Froment. Ethylbenzene dehydrogenation into styrene: Kinetic modeling and reactor simulation. *Ind. Eng. Chem. Res.* **47**, 9183-9194, 2008. (Invited Paper)
3. W. J. Lee, W.-H. Lee, J. H. Chae, D. I. Lee, H.-K. Yoon, I. K. Park, and J. H. Son. Kinetic study of the thermal oxidation of p-xylene to terephthaldehyde. *Ind. Eng. Chem. Res.* **46**, 6228-6234, 2007.
4. S. B. Shin, S. P. Han, W. J. Lee, Y. H. Im, Z. Urban, J. H. Chae, D. I. Lee, and W.-H. Lee. Optimize terephthaldehyde reactor operations. *Hydrocarbon Processing*. April, 2007, 83-90.
5. 이원재, 이종구. 화학반응기 설계를 위한 반응속도 모델링 및 반응기 모사 기술 적용 사례, 촉매, 제25권 2호, 2009, pp 33-40.

PATENT

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