

Qiang LI

Synthetic & Systems Biology Innovation Hub (SSBiH),

Department of Plant Pathology & Microbiology, Texas A&M University

〒77843, R151, Norman E. Borlaug Center, TAMU 2123, College Station, TX, USA

Email: liqerlee@gmail.com, liqerlee@126.com; Tel: +1-979-862-4801

Education

Postdoc Research Associate: Texas A&M University, 2016.01~now (*Dr. Joshua Yuan's lab*)

Topics: Lignin carbon fiber; Lignin composite materials; Biofuels; Lignin structure; Lignin characterization

Ph.D: Forest Chemistry, Hokkaido University (Japan), 2011.10~2015.9 (*Dr. Yasumitsu Uraki's lab*)

Topics: Artificial wood cell wall; Honeycomb cellulose film; Xylan-lignin relationship; Lignin structure

Master: Pulp & Paper Making, China National Pulp & Paper Research Institute (Beijing, China), 2008.9~2011.7 (*Dr. Jingang Liu's lab*)

Topics: Paper coating; Curtain coating; Wood pulping

Bachelor: Pulp & Paper Making, South China University of Technology (Guangzhou, China), 2004.9~2008.7

Peer-reviewed Publications

- © **Li Q.**, Serem K W, Naik T M, Xie S, Zhou F, Sue J, Liu L, Yuan J S. Impacts of Lignin Molecular Weight on Carbon Fiber Mechanical Performance. **2017**, *submitted to ChemSuSChem*.
- © **Li Q.**, Xie S, Serem K W, Naik T M, Liu L, Yuan J S. Quality Carbon Fiber from Lignin. **2016**, *submitted to Green Chemistry*.
- © Xie S*, **Li Q***, Zhou F, Yuan J S. Lignin as Effective Asphalt Binder. **2016**, *submitted to ACS Sustainable Chem. Eng.* (*Co-first author)
- © Shi Y, Yan X, **Li Q.**, Wang X, Liu M, Xie S, Chai L, Yuan J S. Directed Bioconversion of Kraft Lignin to Polyhydroxyalkanoate by *Cupriavidus basilensis* B-8 without Any Pretreatment. *Progr. Biochem.* **2016** DOI <http://dx.doi.org/doi:10.1016/j.procbio.2016.10.004>.
- © **Li Q.**, Koda K, Yoshinaga A, Takabe K, Shimomura M, Hirai Y, Tamai Y, Uraki Y. Dehydrogenative Polymerization of Coniferyl Alcohol in Artificial Polysaccharides Matrices: Effects of Xylan on the Polymerization. *J. Agric. Food Chem.*, **2015**, 63, 4613-4620.
- © Hu Y, Liu J G, **Li Q.** Influence of Different Preparation Methods of MFC on Its Strengthening Performance in Paper. *Transactions of China Pulp and Paper*, **2015**, 30, 13-17.
- © **Li Q.**, Liu J G, Wang B S. The Effect of Air on Operation Stability of Curtain Coating. *China Pulp & Paper*, **2011**, 30, 66-71.
- © Sun J, Liu J G, Wang B S, **Li Q.** The Application of Surfactants in Curtain Coating. *China Pulp & Paper*, **2010**, 29, 19-23.
- © **Li Q.**, Xu L, Sun J. The Development and Application of Neutral Deinking Technology. *East China Pulp & Paper Industry*, **2010**, 41, 13-16.

Book Chapter

- © **Li Q.**, Bardant T B, Koda K, Uraki Y. Artificial Wood Cell Wall. *Book Chapter*, **2016**, *in publication*.

Conference Publications

- © **Li Q.**, Tasaki Y, Koda K, Uraki Y. Dehydrogenative polymerization of coniferyl alcohol on the xylan-deposited honeycomb-patterned cellulose films. **13th European Workshop on Lignocellulosics and Pulp**, June 24-27, **2014**, Seville, Spain
- © **Li Q.**, Tasaki Y, Koda K, Uraki Y. DHP formation in the matrix of hemicelluloses-deposited honeycomb patterned cellulose. **The XXVIIth International Conference on Polyphenols**, Sept. 2-6, **2014**, Nagoya, Japan
- © **Li Q.**, Tasaki Y, Yoshinaga A, Takabe K, Koda K, Uraki Y. Xylan as a scaffold for DHP deposition on cellulose. **International Symposium on Wood Science & Technology 2015**, Mar. 15-17, Tokyo, Japan
- © Uraki Y, **Li Q.**, Bardant T B, Koda K. Honeycomb-patterned cellulose films as a promising tool to investigate deformation of wood cross section and wood cell wall formation. **249th ACS National Meeting & Exposition**, Mar. 22-26, **2015**, Denver, USA

Patents

- © Yuan J. S., Xie S., **Li Q.** Conversion of Lignin into Bioplastics and Lipid Fuels. *In application.*
- © Liu J., **Li Q.**, Wang B. A Method for Measuring the Air Content of Coating. CN103884645. *Authorized*
- © Liu J., Wang B., **Li Q.** A Method for the Removal of Air Bubbles in Coating. Application No. CN 201210563412. *In application.*

Research and other support

Texas A&M Energy Institute (2016-2017), Co-PI and lead scientist ~\$50,000

Academic communications

- © 2014.09 & 2015.02, visiting research student, **Laboratory of Tree Cell Biology, Kyoto University (Japan)**, immunolabeling of xylan by antibody (*Prof. Keiji Takabe & Dr. Arata Yoshinaga*).
- © 2015.5, **Qingdao Institute of Bioenergy & Bioprocess Technology, Chinese Academy of Science** (*Prof. Haisong Wang & Dr. Bin Li*).
- © 2015.10, **China National Pulp & Paper Institute (Beijing)** (*Prof. Jingang Liu*).

Company Internships & Social Activities

- © 2011.05, Summer internship, Double A Public Co., Ltd., paper mill in Bangkok, Thailand. (1 week)
- © 2009.10-2011.05, Academic part-time copy-editor for International Pulp & Paper, China Pulp and Paper Magazines Publisher, Beijing, China. (1.5 year)
- © 2008.01-02, Graduation internship, Taishan Paper Co. Ltd., paper mill in Laiwu city, China. (1.5 month)
- © 2007.07-2007.08, Summer internship, StoraEnso Group, paper mill in Suzhou city, China. (1.5 month)
- © 2007.02, Social survey, the state-of-art: hand workshops making ancient Chinese paper (Xuan-Zhi) in Fuyang City, Zhejiang Province, China. (2 weeks)

Awards and Honors

- © 2005, 2006, 2007, Excellent student, South China University of Technology
- © 2005, Yorkshire Fellowship, South China University of Technology