

Hui Li-Curriculum Vitae



Hui Li

Ph.D, Professor and Associate Director, Institute of Biological and Environmental Engineering, Hunan Academy of Forestry, Changsha, China

Dr. Hui Li is a Professor and the Associate Director in the Institute of Biological and Environmental Engineering at Hunan Academy of Forestry in China. He obtained his Ph.D. degree at Hunan University and was a Visiting Scholar in the UBC Department of Chemical and Biological Engineering from 2009 to 2011, and from 2017-2018. His research interest is in the fields of biomass pelletization, torrefaction, removal of heavy metal from soil, and liquefaction. Specifically, he researched on co-pelletization of sewage sludge and biomass and investigated the energy input and pellet properties. He investigated the basis for torrefaction in fluidized bed reactors and the pelletization of torrefied sawdust. He analyzed the products from the subcritical liquefaction of agricultural waste in the presence of mixed solvent. He has highly-cited publications in the recently years as first author.

Current Position and Address

Professor and Associate Director, Institute of Biological and Environmental Engineering, Hunan Academy of Forestry, Tianxin District, Changsha, Hunan Province, China. 410004;

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Research Interests

Torrefaction, Pyrolysis, Pelletization of Biomass, Liquefaction; Phyto-remediation

Education and Degrees

BSc, Hunan University, China, 2005;

Ph.D, Hunan University, China, 2011

Post Doc and Visit

Postdoctoral Fellow, Hunan Academy of Forestry, China (2012-2014)

Associate Professor, Deputy Director, Hunan Academy of Forestry, China
(2015-Present)

Visiting Researcher, University of British Columbia, Canada (2009-2011)

Visiting Scholar, University of British Columbia, Canada (2015)

Visiting Scholar, University of British Columbia, Canada (2016)

Visiting Scholar, University of British Columbia, Canada (2017-2018)

Talks Given at Conferences

“Aldehyde/Ketone emission from wood pellets during storage”, on 4th Environment-Enhancing Energy (E2-Energy) and Bio-Chemicals Conference 2016, China Agricultural University, Beijing, China, July 6-8, 2016.

“The Co-pelletization of Biomass and Municiple Sludge” on 5th International Conference on Biorefinery -towards Bioenergy, University of British Columbia, college of Forestry, Vancouver, Canada, August 10-12. 2015.

“Analysis of Products from the Subcritical Liquefaction of Agricultural Waste” on “2007 International Symposium on Environmental Science and Technology” , Beijing Xijiao Hotel, Beijing, China, November 13-16, 2007.

Publications

1、 **Hui Li**, Siyuan Wang, Xingzhong Yuan, Yanni Xi, Zhongliang Huang, Mengjiao Tan,

- Changzhu Li. The effects of temperature and color value on hydrochars' properties in hydrothermal carbonization. **Bioresource Technology**, 2018, 249, 574-581.
- 2、 **Hui Li**, Siyuan Wang, Zhongliang Huang, Xingzhong Yuan, Ziliang Wang, Rao He, Yanni Xi, Xuan Zhang, Mengjiao Tan, Jing Huang, Dan Mo, Changzhu Li. Effect of hydrothermal carbonization on storage process of woody pellets: pellets' properties and aldehydes/ketones emission. **Bioresource Technology**, 2018, 260, 115-123.
 - 3、 **Hui Li**, Longbo Jiang, Changzhu Li, Jie Liang, Xingzhong Yuan, Zhihua Xiao, Zhihong Xiao, Hou Wang. Co-pelletization of sewage sludge and biomass: The energy input and properties of pellets. **Fuel Processing Technology**. 2015, 132(4):55-61.
 - 4、 Longbo Jiang, Xingzhong Yuan, **Hui Li**, Zhihua Xiao, Jie Liang, Hou Wang, Zhibin Wu, Xiaohong Chen, Guangming Zeng. Pyrolysis and combustion kinetics of sludge–camphor pellet thermal decomposition using thermogravimetric analysis. **Energy Conversion & Management**, 2015, 106:282-289.
 - 5、 Longbo Jiang, Xingzhong Yuan, Zhihua Xiao, Jie Liang, **Hui Li**, Liang Cao, Hou Wang, Xiaohong Chen, Guangming Zeng. A comparative study of biomass pellet and biomass-sludge mixed pellet: Energy input and pellet properties. **Energy Conversion & Management**, 2016, 126:509-515.
 - 6、 Xingzhong Yuan, Xiaowei Ding, Lijian Leng, **Hui Li**, Jianguang Shao, Yingying Qian, Huajun Huang, Xiaohong Chen, Guangming Zeng. Applications of bio-oil-based emulsions in a DI diesel engine: The effects of bio-oil compositions on engine performance and emissions. **Energy**, 2018, 154:110-118.
 - 7、 **Hui Li**, Xinhua Liu, Robert Legros, Xiaotao T. Bi, C J. Lim, Shahab Sokhansanj. Pelletization of Torrefied Sawdust and Properties of Torrefied Pellets. **Applied Energy**. 2012, 93(5):680-685.
 - 8、 **Hui Li**, Xinhua Liu, Robert Legros, Xiaotao Bi, C J. Lim, Shahab Sokhansanj. Torrefaction of sawdust in a fluidised bed reactor. **Bioresource Technology**, 2012, 103(1):453-458.
 - 9、 **Hui Li**, Xingzhong Yuan, Guangming Zeng, Jingyi Tong, Hongtao Cao, Lihua Wang, Mingyang Cheng, Jiachao Zhang, Dan Yang. Liquefaction of rice straw in sub- and supercritical 1,4-dioxane-water mixture. **Fuel Processing Technology**, 2009, 90(5): 657-663.
 - 10、 **Hui Li**, Xingzhong Yuan, Guangming Zeng, Danlian Huang, Huang Huajun, Tong Jingyi, Qiao Youiao, Zhang Jiachao, Zhou Ming. The formation of bio-oil from sludge by deoxy-liquefaction in supercritical ethanol. **Bioresource Technology**, 2010, 101(8): 2860-2866.
 - 11、 Xingzhong Yuan, **Hui Li**, Guangming Zeng, Jingyi Tong, Wen Xie. Sub- and supercritical liquefaction of rice straw in the presence of ethanol-water and 2-propanol-water mixture. **Energy**, 2007, 32(11): 2081-2088.
 - 12、 **Hui Li**, Zhihong Xiao, Zhongliang Huang, Rukuan Liu, Changzhu Li. Co-pelletization of hydrothermal treated rice straw and oil cake additives. **Journal of Bioprocess and Engineering and Biorefinery**. 2014, 3:190-195.
 - 13、 **Hui Li**, Xingzhong Yuan, Guangming Zeng, Jingyi Tong, Yan Yan, Hongtao Cao, Lihua Wang, Yanna Liu, Dan Yang. Analysis of products from the subcritical liquefaction of agricultural waste in the presence of mixed solvent. In: **1st International Symposium on Environmental Science and Technology**. Beijing, 2007, 1341-1345.
 - 14、 Lijiang Leng, Jie Chen, Songqi Leng, Wenyan Li, Huajun Huang, **Hui Li**, Xingzhong

- Yuan, Jun Li, Wenguang Zhou. Surfactant assisted upgrading fuel properties of waste cooking oil biodiesel. **Journal of Cleaner Production**, 2019, 210: 1376-1384.
- 15、 Song Tang, Rukuan Liu, Fubao Fuelbiol Sun, Chunying Dong, Rui Wang, Zhongyao Gao, Zhanying Zhang, Zhihong Xiao, Changzhu Li, **Hui Li**. Bioprocessing of tea oil fruit hull with acetic acid organosolv pretreatment in combination with alkaline H₂O₂. **Biotechnology for Biofuels**, 2017, 10:86.
- 16、 Zhongliang Huang, **Hui Li**, Xingzhong Yuan, Lin Lin, Liang Cao, Zhihua Xiao, Longbo Jiang, Changzhu Li. The energy consumption and pellets' characteristics in the co-pelletization of oil cake and sawdust. **RSC Advances**, 2016, 6, 19199-19207.
- 17、 Siyuan Wang, Xingzhong Yuan, Changzhu Li, Zhongliang Huang, Lijian Leng, Guangming Zeng, **Hui Li**. Variation in the physical properties of wood pellets and emission of aldehydeketo under different storage conditions. **Fuel**, 2016, 183:314-321.
- 18、 Longbo Jiang, Xingzhong Yuan, **Hui Li**, Xiaohong Chen, Zhihua Xiao, Jie Liang, Lijian Leng, Zhi Guo, Guangming Zeng. Co-pelletization of sewage sludge and biomass: Thermogravimetric analysis and ash deposits. **Fuel Processing Technology**, 2016, 145:109-115.
- 19、 Xingzhong Yuan, Lijian Leng, Zhihua Xiao, Cui Lai, Longbo Jiang, Hou Wang, **Hui Li**, Xiaohong Chen, Guangming Zeng. Pyrolysis and combustion kinetics of glycerol-in-diesel hybrid fuel using thermogravimetric analysis. **Fuel**, 2016, 182:502-508.
- 20、 Liang Cao, Xingzhong Yuan, Longbo Jiang, Changzhu Li, Zhihua Xiao, Zhongliang Huang, Xiaohong Chen, Guangming Zeng, **Hui Li**. Thermogravimetric characteristics and kinetics analysis of oil cake and torrefied biomass blends. **Fuel**, 2016, 175:129-136.
- 21、 Longbo Jiang, Jie Liang, Xingzhong Yuan, **Hui Li**, Changzhu Li, Zhihua Xiao, Huajun Huang, Hou Wang, Guangming Zeng. Co-pelletization of sewage sludge and biomass: The density and hardness of pellet. **Bioresource Technology**, 2014, 166(5): 435-443.
- 22、 Liang Cao; Xingzhong Yuan; Hui Li; Changzhu Li; Zhihua Xiao; Longbo Jiang; Binbin Huang; Zhihong Xiao; Xiaohong Chen; Xiaohong Chen; Hou Wang; Guangming Zeng. Complementary effects of torrefaction and co-pelletization: Energy consumption and characteristics of pellets. **Bioresource Technology**, 2015, 185(6): 254-262.
- 23、 Junyuan Guo, **Hui Li**. Bioflocculant from pre-treated sludge and its application in the treatment of swine wastewater. **Journal of Bioprocess and Engineering and Biorefinery**. 2014, 3:207-215.
- 24、 Zhihua Xiao, Xingzhong Yuan, Longbo Jiang, Xiaohong Chen, **Hui Li**, Guangming Zeng, Lijian Leng, Hou Wang, Huajun Huang. Energy recovery and secondary pollutant emission from the combustion of co-pelletized fuel from municipal sewage sludge and wood sawdust. **Energy**, 2015, 91:441-450.
- 25、 Yuanyuan Xie, Xingzhong Yuan, Zhibin Wu, Guangming Zeng, Longbo Jiang, Xin Peng, Hui Li. Adsorption behavior and mechanism of Mg/Fe layered double hydroxide with Fe₃O₄-carbon spheres on the removal of Pb (II) and Cu (II). **Journal of Colloid and Interface Science**, 2019, 536:440-455.
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- 27、 Longbo Jiang, Xingzhong Yuan, Guangming Zeng, Jie Liang, Zhibin Wu, Hou Wang, Jin Zhang, Ting Xiong, Hui Li. A Facile Band Alignment of Polymeric Carbon Nitride Isotype Heterojunctions for Enhanced Photocatalytic Tetracycline Degradation. **Environmental Science: Nano**, 2018, 5: 2604-2617.
- 28、 Lijian Leng, **Hui Li**, Xingzhong Yuan, Wenguang Zhou, Huajun Huang. Bio-oil upgrading by emulsification/microemulsification: A review. **Energy**, 2018, 161: 214-232.
- 29、 Lijian Leng, Huajun Huang, **Hui Li**, Jun Li, Wenguang Zhou. Biochar stability assessment methods: A review. **Science of the Total Environment**, 2019, 647: 210-222.
- 30、 Ziliang Wang, Hui Li, C Jim Lim, John R Grace. Oxidative torrefaction of spruce-pine-fir sawdust in a slot-rectangular spouted bed reactor. **Energy Conversion and Management**, 2018, 174: 276-287.
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- 37、 Ren Zhu, Jie Liang, Xingzhong Yuan, Lele Wang, Lijian Leng, **Hui Li**, Huajun Huang, Xueli Wang, Shanxing Li, Guangming Zeng. The formation of rhamnolipid-based water-containing castor oil/diesel microemulsion and their potentiality as green fuels. **Energy & Fuels**, 2014, 28:5861-5871.
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- 39、 Congwei Wang, Jianghong Peng, **Hui Li**, Xiaotao T. Bi, Robert Legros, C.J. Lim, Shahab Sokhansanj. Oxidative torrefaction of biomass residues and densification of torrefied

- sawdust to pellets. **Bioresource Technology**. 2013, 127:318-325.
- 40、Huajun Huang, Xingzhong Yuan, Guangming Zeng, Huina Zhu, **Hui Li**, Zhifeng Liu, Hongwei Jiang, Lijian Leng, Wenkai Bi. Quantitative evaluation of heavy metals' pollution hazards in liquefaction residues of sewage sludge. **Bioresource Technology**. 2011, 102(22):10346-10351.
- 41、Xingzhong Yuan, Jingyu Wang, Guangming Zeng, Huajun Huang, Xiaokai Pei, **Hui Li**, Zhifeng Liu, Minghui Cong. Comparative studies of thermochemical liquefaction characteristics of microalgae using different organic solvents, **Energy**, 2011, 36(11):6406-6412.
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- 43、Huajun Huang, Xingzhong Yuan, Guangming Zeng, Jingyu Wang, **Hui Li**, Chunfei Zhou, Xiaokai Pei, Qiao You, Liang Chen. Thermochemical liquefaction characteristics of microalgae in sub- and supercritical ethanol. **Fuel Processing Technology**, 2011, 92(1): 147-153.
- 44、Xingzhong Yuan, Huajun Huang, Guangming Zeng, **Hui Li**, Jingyu Wang, Chunfei Zhou, Huina Zhu, Xiaokai Pei, Zhifeng Liu, Zhantao Liu. Total concentrations and chemical speciation of heavy metals in liquefaction residues of sewage sludge. **Bioresource Technology**, 2011, 102(5): 4104-4110.
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- 49、Ting Xiong, Xingzhong Yuan, Hou Wang, Lijian Leng, **Hui Li**, Zhibin Wu, Longbo Jiang, Rui Xu, Guangming Zeng. Implication of graphene oxide in Cd-contaminated soil: A case study of bacterial communities. **Journal of Environmental Management**, 2018, 205(1):99-106.
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- 51、Yaoning Chen, Yanrong Chen, Yuanping Li, Yanxin Wu, Fuzao Zhu, Guangming Zeng, Jiachao Zhang, **Hui Li**. Application of Fenton pretreatment on the degradation of rice straw

- by mixed culture of *Phanerochaete chrysosporium* and *Aspergillus niger*. **Industrial Crops & Products**, 2018, 112: 290-295.
- 52、 Hou Wang, Xingzhong Yuan, Yan Wu, Guangming Zeng, Xiaohong Chen, Lijian Leng, **Hui Li**. Synthesis and applications of novel graphitic carbon Nitride/metal-organic frameworks mesoporous photocatalysts for dyes removal. **Applied Catalysis B: Environmental**, 2015, 174-175:445-454.
 - 53、 Lihua Zhang, Guangming Zeng, Jiachao Zhang, Yaoning Chen, Man Yu, Lunhui Lu, **Hui Li**, Yuan Zhu, Yujie Yuan, Aizhi Huang, Ling He. Response of denitrifying genes coding for nitrite (*nirK* or *nirS*) and nitrous oxide (*nosZ*) reductases to different physico-chemical parameters during agricultural waste composting. **Applied Microbiology & Biotechnology**, 2015, 99:4059-4070.
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 - 55、 Hou Wang, Xingzhong Yuan, Yan Wu, Guangming Zeng, Xiaohong Chen, Lijian Leng, Zhibin Wu, Longbo Jiang, **Hui Li**. Facile synthesis of amino-functionalized titanium metal-organic frameworks and their superior visible-light photocatalytic activity for Cr(VI) reduction. **Journal of Hazardous Materials**, 2015, 286:187-194.
 - 56、 Xingzhong Yuan, Hou Wang, Yan Wu, Guangming Zeng, Xiaohong Chen, Lijian Leng, Zhibin Wu, **Hui Li**. One-pot self-assembly and photoreduction synthesis of silver nanoparticle-decorated reduced graphene oxide-MIL-125(Ti) photocatalyst with improved visible light photocatalytic activity. **Applied Organometallic Chemistry**, 2016, 30:289-296.
 - 57、 Fubao Fuelbiol Sun, Song Tang, Rukuan Liu, Yanjun Tang, Rui Wang, Zhanying Zhang, Zhongyuan Gao, **Hui Li**, Changzhu Li, Zhihong Xiao. Biorefining fractionation of the *Camellia oleifera* Abel hull into diverse bioproducts with a two-stage organosolv extraction. **Industrial Crops & Products**, 2016, 94:790-799.
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 - 59、 Hou Wang, Xingzhong Yuan, Yan, Wu, Xiaohong Chen, Lijian Leng, Hui Wang, **Hui Li**, Guangming Zeng. Facile synthesis of polypyrrole decorated reduced graphene oxide-Fe₃O₄ magnetic composites and its application for the Cr(VI) removal. **Chemical Engineering Journal**, 2015, 262: 597-606.
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microbial ammonia oxidation differ under different conditions during agricultural waste composting. **Bioresource Technology**, 2011, 102(19): 9026-9032.

- 63、 Jiachao Zhang, Guangming Zeng, Yaoning Chen, Man Yu, Zhen Yu, **Hui Li**, Yong Yu, Hongli Huang. Effects of physico-chemical parameters on the bacterial and fungal communities during agricultural waste composting. **Bioresource Technology**, 2011, 102(3): 2950-2956.
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