

# Yadong Li

## EDUCATION

- Ph.D.** Tsinghua University (China) and University of Tokyo (Japan), Joint Graduate Program in Environmental Engineering, 1987-1992
- M.S.** Tsinghua University (China), Environmental Engineering, 1985-1987
- B.S.** Tsinghua University (China), Environmental Engineering, 1980-1985

## PROFESSIONAL REGISTRATION

**Professional Engineer** (Environmental Engineering), Mississippi, License No. 15764

## EXPERIENCES

- 2015-present **Professor**, Department of Civil & Environmental Engineering, Jackson State University.
- 2008-2015 **Associate Professor**, Department of Civil & Environmental Engineering, Jackson State University.
- 2002-2008 **Assistant Professor**, Department of Civil Engineering, Jackson State University
- 1998-2001 **Research Assistant Professor**, Capsule Pipeline Research Center and Department of Civil & Environmental Engineering, University of Missouri-Columbia
- 1995-1998 **Visiting Assistant Professor**, Department of Civil & Environmental Engineering, University of Missouri-Columbia
- 1995 **Visiting Scholar**, National Risk Management Research Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio
- 1992-1995 **Lecturer**, Department of Environmental Engineering, Tsinghua University (China)
- 1991-1992 **Graduate Research Assistant**, Department of Environmental Engineering, Tsinghua University (China)
- 1989-1991 **Graduate Research Assistant**, Department of Nuclear Engineering, The University of Tokyo (Japan)
- 1985-1989 **Graduate Research Assistant**, Department of Environmental Engineering, Tsinghua University (China)

## RESEARCH INTERESTS

**Solid waste & hazardous waste:** fate and risk of hazardous contaminants, conversion of municipal solid waste into fuel and new products; use of biomass waste materials as renewable energy resource; electronic waste environmental hazards and treatment, remediation of contaminated sites, research and design of sanitary and secure landfills; utilization of coal combustion byproducts; stabilization/solidification of hazardous waste.

**Groundwater pollution:** Detection, modeling, and experimental simulation of transport and transformation of contaminants in subsurface

**Environmental chemistry:** Chemical behavior of pollutants in surface and ground waters

**Biological treatment:** composting and anaerobic digestion of biowastes; domestic wastewater irrigation.

**Engineering Economics:** Economic analysis of engineering projects/facilities.

## RESEARCH GRANTS

“Excellence in Research - Collaborative Research: Fate and transport of neonicotinoid insecticides in the environment,” National Science Foundation, starting August 1, 2019. PI: **Yadong Li**, Co-PI: Guihong Bi; Amount: \$\$645,600.

“Development of Augmented Realty Facilitated Instructional Model to Enhance STEM Education in HBCUs,” National Science Foundation, 3 years starting August 2018; PI: Farshad Amini, Co-PIs: **Yadong Li**, Jianjun Yin; Amount: \$350,000.

“2017-2021 ERDC-JSU Students Education and Research Program,” U.S. Army Corps of Engineers, Vicksburg, MS, 5 years starting April 2017; PI: **Yadong Li**, Co-PI: Farshad Amini; Amount: \$1,613,288

“Testing of Rubber Samples,” Industrial Negromemx S.A. de C.V., 3 years starting January 1, 2016; PI: **Yadong Li**, Co-PI: Yiming Liu; Amount: \$90,555

“Development of Technology to Treat Heavy-Metal-Containing Residues from Metal Pickling,” Graduate School at Shenzhen, China, 2 year starting Nov 1, 2015, PI: **Yadong Li**, Co-PIs: Hongtao Yu, Paresh Ray, Amount: \$162,675

“Exploration of Novel Multifunctional Open Graded Friction Courses (MOGFC) for In-situ Highway Runoff Treatment,” Institute for Multimodal Transportation (IMTrans), Jackson State University, Duration: 1 year starting July 1, 2014, PI: **Yadong Li**, Co-PI: Lin Li, Amount: \$48,102

“Sample Testing Service,” INSA, LLC, 3 years starting January 1, 2013; PI: **Yadong Li**, Co-PI: Yiming Liu; Amount: \$72,927.

“2012-2016 Students Summer Research Internship Program,” U.S. Army Corps of Engineers Engineer Research and Development Center (ERDC), 5 year starting April 1, 2012; PI: **Yadong Li**, Co-PI: Farshad Amini; Amount: \$2,000,000.

“Data Sampling and Modeling of Contaminant Dispersant,” Northern Gulf Institute, one year starting Aug. 1, 2010; PI: Gordon Skelton; **Senior Environmental Specialist: Yadong Li**; Amount: \$349,314

“MRI: Acquisition of An ICP-OES for Multidisciplinary Environmental Studies and Training,” National Science Foundation, 3 years starting Sept. 1, 2010. PI: **Yadong Li**, Co-PI: Lin Li; Amount: \$245,877

“Enhancing Transportation Education through Real-World Design Projects,” Institute for Multimodal Transportation (IMTRANS), Jackson State University, 1 year starting July 1, 2009. PI: **Yadong Li**; Amount: \$11,913

“Research Experiences for Teachers,” National Science Foundation, 1 year starting July 1, 2006. PI: **Yadong Li**; Amount: \$20,000

- “Study of E-waste Environmental Hazards and Treatment,” National Science Foundation CAREER Award, 5-year project starting July 1, 2003. **PI: Yadong Li**; Amount: \$400,398
- “Toxicity Assessment and Evaluation of E-waste by the Toxicity Characteristic Leaching Procedure (TCLP),” 2002 (12-month project, starting Dec. 2002). PI: Pao-Chiang Yuan **Co-PI: Yadong Li**; Amount: \$38,645; Funding: U.S. Department of Energy Environmental Technology Consortium
- “Compacting Solid Waste Materials Generated in Missouri to Form New Products,” 2001 (12-month project, starting Jan. 2001). **PI: Yadong Li**, Co-PI: Yuyi Lin; Amount: \$100,000; Funding: Missouri Department of Natural Resources
- “High-pressure compaction of corn seed residues to form a solid fuel,” 2001 (12-month project, starting March. 2001). PI: Henry Liu, **Co-PIs: Yadong Li** and Yuyi Lin; Amount: \$74,000; Funding: Integrated Protein Technologies, Monsanto Company
- “University of Missouri-Columbia Environmental Engineering Partnerships for Training in Chinese Language and Culture,” 2000-2002 (24-month project, starting Jan. 2001). PI: Lee Peyton; **Co-PIs: Yadong Li** and Terry Weidner; Amount: \$257,000; Funding: National Security Education Program, U.S. Department of Defense
- “Compacting Biomass and Municipal Solid Waste to Form an Upgraded Fuel,” 1998-2000 (20-month project). PI: Henry Liu, **Co-PIs: Yadong Li** and Yuyi Lin; Amount: \$395,000; Funding: U.S. Department of Energy
- “Quasi-Static Electromagnetic Resistivity Surveys for 3-D Imaging of Subsurface DNAPL Contamination,” 1997-1999 (24-month project). PI: Lee Peyton; **Co-PIs: Clark Gantzer, Steve Anderson, and Yadong Li**; Amount: \$67,500; Funding: Environmental Security Technology Certification Program, U.S. Department of Defense
- “Composite Material from Post-Consumer Plastics and Fly Ash,” 1997-1998 (12-month project). **PI: Yadong Li**, Co-PI: Lee Peyton; Amount: \$10,000; Funding: Center for Environmental Technology, University of Missouri-Columbia

## COURSES TAUGHT

Introduction to Environmental Engineering  
 Environmental Engineering laboratory  
 Water and Wastewater Treatment Processes  
 Unit Processes and Operations in Environmental Engineering  
 Design of Environmental Engineering Facilities  
 Solid Waste Management  
 Capstone Design  
 Fluid Mechanics  
 Fluid Mechanics Laboratory  
 Hydrology  
 Engineering Economy  
 Engineering Graphics

## PROFESSIONAL ORGANIZATIONS

Association of Environmental Engineering and Science Professors, **Member**, 2000-present  
Mississippi Engineering Society (MES), **Member**, January 2020 – present  
American Society of Civil Engineers (ASCE), **Member**, 1998 – present  
Air & Waste Management Association (A&WMA), **Member**, Dec. 2013-2019  
National Society of Black Engineers (NSBE), **Member**, Sept 2014-2018  
Institute of Transportation Engineers (ITE), April 2010 – March 2012

## PUBLICATIONS

### Refereed papers in professional journals:

- Shihui Liu, Kong Du, Kejun Wen, Catherine Armwood-Gordon, **Yadong Li**, Iveth Navarro, Lin (2023). “Stabilization of Expansive Clayey Soil Through Hydrogel for Mechanical Improvement.” International Journal of Civil Engineering, Accepted on April 1, 2023.
- Yang Li, **Yadong Li\***, Guihong Bi, Timothy J. Ward, Lin Li (2023). “Adsorption and degradation of neonicotinoid insecticides in agricultural soils.” Environmental Science and Pollution Research, DOI: 10.1007/s11356-023-25671-9. \*Corresponding author.
- Junke Zhang, Peidong Su, **Yadong Li**, Lin Li (2020). “Environmental Investigation of Bio-modification of Steel Slag through MICP.” Journal of Environmental Sciences, 101: 282-292.
- Junke Zhang, Peidong Su, Kejun Wen, **Yadong Li**, Lin Li (2020). “Mechanical Performance and Environmental Effect of Coal Fly Ash on MICP-induced Soil Improvement.” KSCE Journal of Civil Engineering, DOI 10.1007/s12205-020-1931-z.
- Junke Zhang, Peidong Su, Kejun Wen, **Yadong Li**, Lin Li (2020). “Environmental Impact and Mechanical Improvement of MICP-treated Coal Fly Ash-Soil Mixture.” Journal of Environmental Geotechnics, DOI: 10.1680/jenge.19.0012
- Peidong Su, Junke Zhang, **Yadong Li** (2020). “Chemical fixation of toxic metals in stainless steel pickling residue by  $\text{Na}_2\text{S} \cdot x\text{H}_2\text{O}$ ,  $\text{FeSO}_4 \cdot 6\text{H}_2\text{O}$  and phosphoric acid for beneficial uses” Journal of Environmental Sciences, 90:364-374
- Peidong Su, Junke Zhang, **Yadong Li** (2019). “Chemical fixation of toxic metals in stainless steel pickling residue by  $\text{Na}_2\text{S}$ ” Journal of Cleaner Production, 234:400-409
- Peidong Su, Yang Li, Junke Zhang, **Yadong Li** (2019). “Characterization and chemical fixation of stainless steel pickling residue using sodium sulfide hydrate.” Environmental Science and Pollution Research, DOI: 10.1007/s11356-019-04500-y
- Peidong Su, Junke Zhang, **Yadong Li** (2019). “Investigation of chemical associations and leaching behavior of heavy metals in sodium sulfide hydrate stabilized stainless steel pickling sludge.” Process Safety and Environmental Protection, 123:79-86

- Yang Li, **Yadong Li\***, Yiming Liu, Timothy Ward (2018). "Photodegradation of Clothianidin and Thiamethoxam in Agricultural Soils." *Environmental Science and Pollution Research*, 25: 31318-31325, \*Corresponding author.
- Yang Li, Peidong Su, **Yadong Li\***, Kejun Wen, Guihong Bi, Michael Cox (2018). "Adsorption-desorption and degradation of insecticide clothianidin and thiamethoxam in agricultural soils." *Chemosphere*, 207:708-714, \*Corresponding author.
- Lin Li, Wei Shao, **Yadong Li**, and Bora Cetin (2015). "Effects of Climatic Factors on Mechanical Properties of Cement and Fiber Reinforced Clays." *Geotech. Geol. Eng.*, 33:537-548
- Yadong Li\***, Lin Li, Shariana Cordero-Zayas, Fabio Santos, Jonathan H. Yaeger (2014). "Environmental Impact of Fly Ash Utilization in Roadway Embankments." *Journal of Material Cycles and Waste Management*, 16:591-596, \*Corresponding author.
- Wei Shao, Bora Cetin, **Yadong Li**, Jingpei Li, Lin Li (2014). "Experimental Investigation of Mechanical Properties of Sands Reinforced with Discrete Randomly Distributed Fiber." *Geotech. Geol. Eng.*, 32:901-910
- Xiaojun Niu, Lina Mi, **Yadong Li**, Aishu Wei, Zhiquan Yang, Xiaofei Song (2013). "Physiological and biochemical responses of rice seeds to phosphine exposure during germination." *Chemosphere*, 93: 2239-2244
- Xiaojun Niu, Aishu Wei, **Yadong Li**, Lina Mi, Zhiquan Yang, Xiaofei Song (2013). "Phosphine in paddy fields and the effects of environmental factors." *Chemosphere*, 93: 1942-1947
- Virginia C. Tickles, **Yadong Li\***, Wilbur Walters (2013). "Integrating Cost Engineering and Project Management in a Junior Engineering Economics Course and a Senior Capstone Project Design Course." *College Student Journal*, 47(2): 244-262, \*Corresponding author.
- Lin Li, Fabio Santos, **Yadong Li\***, Wei Shao, Qian Zhao, Farshad Amini (2012). "Evaluation of Fly Ash and Soil Mixtures for Use in Highway Embankments." *GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering*, pp 3672-3680, Corresponding author.
- Lin Li, Bin Peng, Fabio Santos, **Yadong Li**, and Farshad Amini (2011). "Groundwater Impacts from Leaching of Coal Combustion Products in Roadways Embankment Constructions." *Journal of ASTM International*, 8(8): 1-12
- Yadong Li\***, Li Jin (2011). "Environmental Release of Mercury from Broken Compact Fluorescent Lamps." *Environmental Engineering Science*, 28 (10): 687-691; DOI: 10.1089/ees.2011.0027, \*Corresponding author.
- Yadong Li\***, Jay B. Richardson, Xiaojun Niu, Ollie J. Jackson, Jeremy D. Laster, Aaron K. Walker (2009). "Dynamic leaching test of personal computer components." *Journal of Hazardous Materials*, 171:1058-1065, \*Corresponding author.
- Yadong Li\***, Jay B. Richardson, R. Mark Bricka, Xiaojun Niu, Hongbin Yang, Lin Li, and Arturo Jimenez (2009). "Leaching of heavy metals from E-waste in simulated landfill columns." *Waste Management*, 29: 2147-2150, \*Corresponding author.
- Ran An, **Yadong Li\***, Xiaojun Niu, and Hongtao Yu (2008). "Responses of antioxidant enzymes in catfish exposed to liquid crystals from E-waste." *International Journal of Environmental Research and Public Health*, 5(2): 99-103

- Zongguo Wen, Kunmin Zhang, Du Bin, Yadong Li, and Wen Li (2007). “Case study on the use of genuine progress indicator to measure urban economic welfare in China.” *Ecological Economics*, *Ecological Economics*, 63: 463-475
- Xiaojun Niu and **Yadong Li\*** (2007). “Treatment of waste printed wire boards in electronic waste for safe disposal.” *Journal of Hazardous Materials*, 145: 410-416, \*Corresponding author.
- Yadong Li\***, Jay B. Richardson, Aaron K. Walker, and Pao-Chiang Yuan (2006). “TCLP heavy metal leaching of personal computer components.” *Journal of Environmental Engineering (ASCE)*, 132 (4): 497-504, \*Corresponding author.
- Yadong Li**, Henry Liu, and Ou Zhang (2001). “High-pressure compaction of municipal solid waste to form densified fuel.” *Fuel Processing Technology*, 74: 81-91
- Yadong Li** and Henry Liu (2000). “High-pressure binderless compaction of waste paper to form useful fuel.” *Fuel Processing Technology*, 67(1): 11-21
- Yadong Li** and Henry Liu (2000). “High-pressure densification of wood residues to form an upgraded fuel.” *Biomass and Bioenergy*, 19(3): 177-186
- Yadong Li**, D. J. White, and R. L. Peyton (1998). “Composite material from fly ash and post-consumer PET.” *Resources, Conservation and Recycling*, 24(2): 87-93
- Yadong Li\*** and Guoding Li (1994). “Study on the hydrolysis reaction of Np(V).” *Journal of Nuclear and Radiochemistry*, 16(1): 49-53, \*Corresponding author.
- Yadong Li\***, Guoding Li, and Kunmin Zhang (1994). “Study on absorption spectra, redox, and complexation of neptunium ions in carbonate solution.” *Journal of Nuclear and Radiochemistry*, 16(2): 22-25, \*Corresponding author.
- Yadong Li\***, Kunmin Zhang, and Guoding Li (1994). “Study on the redox processes of neptunium ions in acid solution.” *Chinese Journal of Nuclear Science and Engineering*, 14(2): 91-94, \*Corresponding author.
- Yadong Li**, Zenko Yoshida, and Yoshiharu Kato (1993). “Electrolytic preparation of neptunium species in concentrated carbonate media.” *Radiochimica Acta*, 60(2-3): 115-119
- Joonhong Ahn, Yutaka Furuhashi, **Yadong Li**, and Atsuyuki Suzuki (1991). “Analysis of radionuclide transport through fracture networks by percolation theory.” *Journal of Nuclear Science & Technology*, 28(5): 433-446
- Yongfeng Nie, Zhaochang Liu and **Yadong Li** (1989). “Study on the transport and transformation of pollutants in unsaturated vadose zone.” *Environmental Science (China)*, 10(2): 2-6

### **Conference Proceedings, Presentations, and Abstracts**

- Yang Li, **Yadong Li**, and Lin Li (2022). “Adsorption, desorption and degradation of neonicotinoid insecticides clothianidin and thiamethoxam in agricultural soils.” Poster presentation, 2022 AEESP Research and Education Conference, St. Louis, MO, June 28-30, 2022
- Peidong Su, Junke Zhang, and **Yadong Li** (2019). “Toxicity characterization and chemical stabilization of hazardous metals in pickling sludge generated from stainless steel

- production.” 15th Intl. Sym. Recent Advances in Environmental Health Research, Jackson, MS, Feb. 17-20, 2019 (Abstract and poster presentation)
- Yang Li and **Yadong Li** (2017). “Fate and Transport of Neonicotinoid in Agricultural Soils.” 14<sup>th</sup> Intl. Sym. Recent Advances in Environmental Health Research, Jackson, MS, Sept 11, 2017 (Abstract and poster presentation)
- Peidong Su and **Yadong Li** (2017). “Treatment of Stainless Steel Pickling Residues for Environmental Safe Disposal.” 14<sup>th</sup> Intl. Sym. Recent Advances in Environmental Health Research, Jackson, MS, Sept 11, 2017 (Abstract and poster presentation)
- Yang Li, Peidong Su, and **Yadong Li** (2016). “Environmental Impacts of New Generation of Insecticides Clothianidin and Thimethoxam.” 13<sup>th</sup> Intl. Sym. Recent Advances in Environmental Health Research, Jackson, MS, Sept 13-14, 2017 (Abstract and poster presentation)
- Divya Sinha and **Yadong Li** (2016). “Removal of Heavy Metals from Roadway Rainwater through Pervious Concrete Pavement.” 13<sup>th</sup> Intl. Sym. Recent Advances in Environmental Health Research, Jackson, MS, Sept 13-14, 2017 (Abstract and poster presentation)
- Yadong Li** (2016). “Study of Fly Ash Utilization in Roadway Embankments.” Special seminar for Graduate School in Shenzhen, Tsinghua University, China, July 4, 2016
- Hontao Yu, Paresh Ray, and **Yadong Li** (2015). “Fate and Toxicity of Silver Nanoparticles in the Environment and Biological Media.” First International Forum on Nanotechnology for Water/Wastewater Treatment, Shenzhen, China, Nov. 5, 2015 (Abstract and oral presentation)
- Paresh Ray, Hontao Yu, and **Yadong Li** (2015). “Development of Graphene Oxide Based Hybrid Porous Membrane for Water and Wastewater Treatment.” First International Forum on Nanotechnology for Water/Wastewater Treatment, Shenzhen, China, Nov. 5, 2015 (Abstract and oral presentation)
- Yadong Li**, Lin Li, Shariana Cordero-Zayas, Fabio Santos, and Jonathan H. Yaeger (2013). “Environmental Impact of Fly Ash Utilization in Roadway Embankments.” 8th International Conference on Waste Management and Technology, Shanghai, China, Oct. 22-25, 2013 (full paper, received Award of Excellent Paper)
- Yadong Li**, “The research of Fly Ash Utilization in Roadway Embankments.” 2013 ASCE Mississippi Section Meeting, Tunica, Mississippi, Sept. 25-27, 2013 (oral presentation)
- Lin Li, **Yadong Li**, Shariana Cordero-Zayas “Laboratory Study of Fly Ash and Soil Mixtures for Sustainable Roadway Embankments.” Transportation Research Board 92nd Annual Meeting, Washington, DC, Jan. 13-17, 2013 (oral presentation)
- David P. Fries, Brian Gregson, Geran Barton, Gary Hendrick, Sandra Pettit, **Yadong Li**, David Millie, Gary Fahnenstiel (2012). “Mobile-Solar Autonomous Underwater Sampler (SAUS): Extending the Radius of Lab Based Mass Spectrometry.” 60<sup>th</sup> Conference on Mass Spectrometry and Allied Topics, American Society of Mass Spectrometry, Vancouver, Canada, May 20-24, 2012 (poster presentation)
- Shariana Cordero, **Yadong Li**, and Lin Li (2012). “Environmental Impact of Fly Ash Reuse in Road Embankment Construction.” Transportation Research Board 91<sup>st</sup> Annual Meeting, Washington, DC, Jan. 22-26, 2012 (poster presentation)

- Yadong Li** (2011). “Environmental Release of Mercury from Broken Compact Fluorescent Lamps.” 6th International Conference on Waste Management and Technology, Suzhou, China, Aug. 30-Sep. 1, 2011 (oral presentation and abstract)
- Lin Li, Fabio Santos, and **Yadong Li** (2011). “Geotechnical Properties of Fly Ash and Soil Mixtures for Use in Highway Embankments.” 2011 World of Coal Ash (WOCA) Conference, Lexington, KY, May 9-12, 2011 (poster presentation)
- Fabio Santos, Lin Li, and **Yadong Li** (2011). “Groundwater Impacts from Leaching of Coal Combustion Products in Roadways Embankment Constructions.” International Symposium on Testing and Specification of Recycled Materials, Baltimore, MD, Feb. 2-4, 2011 (poster presentation)
- Fabio Santos, Lin Li, and **Yadong Li** (2011). “The Beneficial Reuse of Fly Ash in Embankment Construction and Its Environmental Impacts.” Transportation Research Board 90th Annual Meeting, Washington, DC, Jan. 23-27, 2011 (poster presentation)
- Yadong Li** (2010). “Environmental Impact of E-waste.” 5th International Conference on Waste Management and Technology, Beijing, China, Dec. 15-17, 2010 (oral presentation and abstract)
- Li Jin, Samson Bulti, and **Yadong Li** (2009). “Environmental Release of Mercury from Compact Fluorescent Light Bulbs.” 6<sup>th</sup> Intl. Sym. Recent Advances in Environmental Health Research, Jackson, MS, Sept 14, 2009 (poster presentation)
- Yadong Li** (2009). “Environmental Concerns of Electronic Waste.” Tennessee Recycling Coalition/Mississippi Recycling Coalition Joint Conference, Tunica, MS, Aug.12-13, 2009 (oral presentation)
- Yadong Li** and P.C. Yuan (2009). “Environmental Releases of Hazardous Materials from Obsolete Electronics and E-waste Recycling.” Alliance of Hazardous Materials Professionals of Mississippi Second Quarter 2009 Meeting, Jackson, MS, June 25, 2009 (oral presentation)
- Yadong Li** and Bradnado Turnquest (2008). “Photolytic degradation of brominated flame retardants in the environment.” MidSouth SETAC Annual Meeting, Vicksburg, MS, May 14-16, 2008 (oral presentation)
- Yadong Li**, Jay B. Richardson, Xiaojun Niu, Ollie J. Jackson, Arturo Jimenez, Jeremy D. Laster, and R. Mark Bricka (2007). “Leaching of Heavy Metals from E-waste in Simulated Landfill Columns.” 4<sup>th</sup> Intl. Sym. Recent Advances in Environmental Health Research, Jackson, MS, Sept 16-19, 2007 (oral presentation)
- Bradnado Turnquest, Xiaojun Niu, and **Yadong Li** (2007). “Photolytic Degradation of brominated flame retardants in the environment.” 4<sup>th</sup> Intl. Sym. Recent Advances in Environmental Health Research, Jackson, MS, Sept 16-19, 2007 (poster presentation)
- Ran An, **Yadong Li**, and Hongtao Yu (2007). “Biototoxicity of liquid crystals from obsolete laptop computers.” 4<sup>th</sup> Intl. Sym. Recent Advances in Environmental Health Research, Jackson, MS, Sept 16-19, 2007 (poster presentation)
- Yadong Li**, R. An, and X. Niu (2007). “Biological Effects of Liquid Crystal Materials on Fish.” 37<sup>th</sup> Mid-Atlantic Industrial & Hazardous Waste Conference, Cincinnati, OH (oral presentation)
- Yadong Li** (2006). “Environmental Impact of E-waste.” ASCE Mississippi Section Meeting, Hattiesburg, MS, Nov. 1-3, 2006 (oral presentation)



- Yadong Li**, O. Jackson, J. Laster, I. Dorsett, and X. Niu, (2006). “Dynamic leaching test of computer components for environmental impact assessment.” 3<sup>rd</sup> Intl. Sym. Recent Advances in Environmental Health Research, Jackson, MS, September 17-20, 2006 (oral presentation)
- Xiaojun Niu and **Yadong Li** (2006). Treatment of waste printed wire boards in obsolete computers for safe disposal. 3<sup>rd</sup> Intl. Symposium on Recent Advances in Environmental Health Research, Sept 17-20, 2006, Jackson, MS (poster presentation)
- Yadong Li** (2006). “Dynamic leaching of toxic elements from computer components.” 2<sup>nd</sup> Intl. Conf. Environmental Science and Technology, American Academy of Sciences, Houston, TX, USA, August 19-22, 2006 (oral presentation)
- Yadong Li**, O. Barnes, and R. M. Brick (2005). “Environmental impact of brominated flame retardants in E-waste.” Proc. Intl. Conf. Energy, Environment, and Disasters – INCEED 2005, Charlotte, North Carolina, July 24-30, 2005 (oral presentation)
- Yadong Li**, O. Barnes, and R. M. Brick (2005). “Leaching of toxic elements from computer components.” Proc. Intl. Conf. Energy, Environment, and Disasters – INCEED 2005, Charlotte, NC, July 24-30, 2005 (oral presentation)
- Yadong Li** (2004). “Toxicity evaluation of personal computers.” 19<sup>th</sup> Annual Hazardous Materials Management Conference, North American Hazardous Materials Management Association, Dec. 6-10, 2004, Miami, FL (oral presentation)
- Yuyi Li, **Yadong Li**, and Ying Zhang (2002). “High-pressure compaction of fly ash to make construction bricks.” Proc. 19<sup>th</sup> Annual International Pittsburgh Coal Conference, September 23-27, 2002, Pittsburgh, PA. ISBN 1-890977-19-5 (oral presentation)
- Yadong Li**, Henry Liu, and Yuyi Lin (2002). “High-pressure compaction of flyash to produce super bricks.” Abstracts for 27<sup>th</sup> Intl. Technical Conference on Coal Utilization & Fuel Systems, March 4-7, 2002, Clearwater, FL (oral presentation)
- Yadong Li**, Henry Liu, and Yuyi Lin (2002). “Issues concerning the use of biomass bog fuel to co-fire with coal at power plants.” Abstracts for 27<sup>th</sup> Intl. Technical Conference on Coal Utilization & Fuel Systems, March 4-7, 2002, Clearwater, FL (oral presentation)
- Yuyi Lin, **Yadong Li**, Xinguo Cai, and Ou Zhang (2002), “Compaction solid waste material to form new products.” Proc. 30<sup>th</sup> Missouri Waste Control Coalition Conference, July 7-9, 2002, Columbia, Missouri (oral presentation)
- Yadong Li** and Henry Liu (2001). “Biomass log fuel (BLF) for co-firing with coal at existing power plants: a feasibility study.” Proc. 25<sup>th</sup> International Technical Conference on Coal Utilization & Fuel Systems, March 5-8, 2001, Clearwater, FL. pp 1033-1040 (full paper)
- Henry Liu and **Yadong Li** (2000). “Compacting municipal solid waste into ‘logs’ for combustion at coal-fired power plants.” Proc. International Symposium on Energy in the 21<sup>st</sup> Century, January 9-13, 2000, Hong Kong. Vol. 4, pp.1420-1426 (full paper)
- Yadong Li**, Rusheng Hu, Jonathan E. Wenzel, and Henry Liu (2000). “Turning yard waste into an upgraded biofuel.” Proc. 25<sup>th</sup> International Technical Conference on Coal Utilization & Fuel Systems, March 6-9, 2000, Clearwater, FL. pp.107-114 (full paper)
- Yadong Li** and Henry Liu (2000). “Compaction biomass waste materials into logs for co-firing with coal.” Proc. 17<sup>th</sup> International Pittsburgh Coal Conference, September 11-15, 2000, Pittsburgh, PA, USA. Published on CD-ROM, Paper No. 27-8 (full paper)

Henry Liu and **Yadong Li** (2000). “Transporting Solid Wastes by Pipelines: A Feasibility Analysis Based on State-of-the-Art.” Proc. of Convergence 2000 Conference Environmental and Pipeline for the Next Millennium, American Society of Civil Engineers (ASCE), July 23-26, 2000, Kansas City, MO. pp.338-347 (full paper)

Z. Yoshida, H. Aoyagi, Y. Kato, **Yadong Li**, and S. Kihara (1991). “Redox, disproportionation, and complex formation reactions of neptunium ions.” Proc. 3rd Int. Sym. Advanced Nuclear Energy Research: Global Environment and Nuclear Energy, March 13-15, 1991, Mito, Japan. pp.268-272 (full paper)

### **Book chapters:**

Zenko Yoshida, **Yadong Li**, and Joungh-duk Kim (1996). “Asia: Japan, China, and Korea,” Chapter 17. In: Separation Techniques in Nuclear Waste Management, pp.285-300, Editors: T. E. Carleson, N. A. Chipman, and C. M. Wai, CRC Press, Inc., Florida

**Yadong Li** (1992). “Experimental study on the chemical behavior of neptunium in groundwater.” In: Radioactive Waste Management, Vol.3, pp.127-133, Editors: Shanggeng Luo and Xuequn Li, China Ocean Press

### **U.S. PATENT**

**Yadong Li**, Lee Peyton, and David J. White. Composite Material from Fly Ash and Waste Polyethylene Terephthalate. Patent Number: 6583217. Granted 2003

### **HONORS AND AWARDS**

High Grant Award Winner, Jackson State University, April 12, 2017

Award of Excellent Paper, International Conference on Waste Management and Technology, Shanghai, China, Oct. 22-25, 2013

Epps/Dart Award for Excellence in Teaching, Institute of Transportation Engineers, U.S. Deep South Section, 2009

2005-2006 Research Innovation Award, Jackson State University, October 2006

Certificate of Appreciation (Awardee of the Month), Jackson State University, March 2003