LIN GUO

Assistant Professor of Environmental Science
Texas A&M University-Commerce
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EDUCATION

Ph.D. in Civil Engineering — August/2014
The University of Akron, USA,

M.S. in Environmental Engineering — January/2008
Nanchang University, China,

B.S. in Environmental Engineering — June/2005
Nanchang University, China,

PROFESSIONAL EXPERIENCE

Assistant Professor of Environmental Science — August/2014-present
Texas A&M University-Commerce, Commerce, Texas, USA

- **Courses teaching**: Introduction to Environmental Science; Phase I Environmental Site Assessment; Air Pollution Control
- **Conduct research** on bioremediation/phytoremediation of contaminated soil; wastewater treatment
- **Serve on university and department committee**
- **Mentor undergraduate thesis**
- **Supervise graduate assistants**

Teaching Assistant — August/2011-August/2014
The University of Akron, Akron, OH, USA

- **Conducted research** on remediation of acid mine drainage (AMD) contaminated soil
- **Participated in research** on bioremediation of dichlorodiphenyltrichloroethane contaminated soil; initial evaluation of microbial activity in Linden bioremediation system treating AMD in the Huff Run watershed for the Ohio Department of Natural Resources
- **Lab supervision:** supervised laboratory work of NSF funded S-STEM scholarship recipients
- **Teaching assisted**: "Chemistry for Environmental Engineers" and "Water Supply and Pollution Control" for undergraduate students

Lecturer of Environmental Science — August/2008-August/2011
Jinggangshan University, China

- **Courses taught**:
  Introduction to Environmental Protection; Introduction to Resources and Environment Science; Environmental Impacts Assessments; Experiment of Environmental Engineering; Experiment of Environmental Chemistry

- **Conducted research:**
  In charge of a municipality-level project—recycling of acidic etching waste liquor in print circuit board factory;
  Participated in a municipality-level project—water quality monitoring technology in channel type reservoirs;
  Participated in provincial-level project—study on treatment technology of drinking water in small towns in China;
  Participated in a state-level project—research on wastewater control in Jinggang Mountain scenic spot in China.
- **Consulting:**
  Provided expert technical advice on sustainable development, environment management and pollution control for Jiangxi Redboard Printed Circuit Board Manufacturer.

Environmental Engineer January/2008-July/2008

Jiangxi Redboard Printed Circuit Board Manufacturer, China

- **Supervised Wastewater Treatment Department:** resolved technical problems of wastewater treatment; developed proposals to improve wastewater treatment efficiency; trained staffs in operating wastewater treatment system.
- **Assisted Environmental Management Department:** identified opportunities to promote cleaner production; oversee solid wastes disposal or recycling; deal with environmental emergencies; communicated with environmental protection agency.

Research Assistant Sep/2005-Jan/2008

Nanchang University, China

- **Conducted research** on air pollution control and sources apportionment of atmospheric particulates in Nanchang City, China
- **Evaluated of potential environmental impacts of** construction of chemical factories, pharmaceutical factories, paper mills and so on; **compiled environmental impact statements**
- **Instructed undergraduates** to do Environmental Monitoring Experiments

QUALIFICATIONS

- Over 9 years experience in environment management, pollution control and contaminated sites remediation
- Expertise in environmental impacts assessments and environmental impact statements writing
- Solid background in wastewater treatment and solid waste disposal
- Extensive knowledge in mechanisms of generation, transformation and transport of pollutants in water, air and soil environment
- Expert at pollutants monitoring and analysis with a number of equipments:

Inductively Coupled Plasma Mass Spectrometry; Atomic Absorption Spectrometer;

Spectronic; pH Meter; Dissolved Oxygen Meter; Light Microscope and so on

- Proficient in software application:
  Statistical data analysis with MINITAB, SPSS and EXCEL;
  Pollutants treatment process design with Auto CAD;
  Report writing and presentation with Microsoft Word and PowerPoint;
- Good public speaking and presentation skills
- Excellent ability to cooperate with people from different backgrounds

PUBLICATIONS

- Perry B.J., Sutton C.A., Guo L. Yan X., Yang J. 2018. Metal uptake in reeds from "flowback" fluids, **Polish Journal of Environmental Studies**, 27:231-236.
- Guo L. and Cutright T. J., 2015. Effect of citric acid and bacteria on metal uptake in reeds grown in a synthetic acid mine drainage solution, **Journal of Environmental Management**, 150:235-242.
- Guo L., Cutright T. J. and Duirk S., 2015. Effect of citric acid, rhizosphere bacteria and plant age on metal uptake in reeds cultured in acid mine drainage, **Water, Air and Soil Pollution**, 226:1573-2932.
- Guo L. and Cutright T. J., 2015. Remediation of acid mine drainage contaminated soil by two types of reeds, **International Journal of Phytoremediation**, 17:391-403.
- Guo L. and Cutright T. J., 2014. Effect of citric acid and rhizosphere bacteria on metal plaque formation and metal accumulation in reeds in synthetic acid mine drainage solution, **Ecotoxicology and Environmental Safety**, 104:72-78.
- Guo L., Ott D. W. and Cutright T. J., 2014. Accumulation and histological location of heavy metals in *Phragmites australis* grown in acid mine drainage contaminated soil with or without citric acid, **Environmental and Experimental Botany**, 105:46-54.
- Guo L. and Cutright T. J., 2014. Remediation of acid mine drainage contaminated soil by *Phragmites australis* and rhizosphere bacteria, **Environmental Science and Pollution Research**, 21:7350-60.
- Guo L., Zha H., Liao X. and Liu Z., 2011. Treatment of electroplating wastewater containing nickel by chemical precipitation process, **Environmental Engineering**, 29:46-52
- Guo L., He Z. and Yin L., 2010. Source apportionment experiment of polycyclic aromatic hydrocarbons in $PM_{2.5}$ in summer of Nanchang City, **Environmental Pollution and Control**, 32:58-62