

Curriculum Vitae

Personal Information:

- ◆ Name : Defu Xu
- ◆ Sex : Male
- ◆ Date of Birth : March, 1975
- ◆ Institute: College of Environmental Science and Technology, Nanjing University of Information Science & Technology
- ◆ Major: Environmental Science
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Research Interests:

- ◆ Bioremediation wastewater and polluted soil;
- ◆ Constructed wetland to purify wastewater;
- ◆ Nutrient cycle in water and soil.

Education Background:

- ◆ 10, 2011- 03, 2012 International Course Training, University of Reading, UK.
- ◆ 2002-2005 Ph.D., Soil Science, College of Environmental and Natural Resource, Zhejiang University;
- ◆ 1999-2002 Master, Soil Science, College of Agriculture, Guizhou University;
- ◆ 1994-1998 Bachelor, Soil Science, College of Agriculture, Guizhou University;

Work Experience:

- ◆ September, 2007 - present Employed as an associate professor to College of Environmental Science and Engineering, Nanjing University of Information Science & Technology;
- ◆ September, 2007 - December, 2005 Worked as a lecturer, an associate professor for College of Environmental Science and Engineering, Guizhou University.

Publish some paper:

- (1)Defu Xu, Yingxue Li, Alan Howard. Influence of earthworms to microorganism, photosynthetic characteristics, and accumulation of N and P by wetland plants. Submitted
- (2)Defu Xu, Yingxue Li, Alan Howard. Effects of substrates and earthworms on photosynthetic characteristics, nitrogen and phosphorus uptake by *Iris pseudacorus* in a constructed wetland system. Submitted
- (3)Defu Xu, Yingxue Li, Hua Fang, Xiaoli Zhao, Ranghai Wang. Effect of earthworms on plant growth and purifying wastewater in constructed wetlands. Submitted

- (4) **Defu Xu**, Yingxue Li, Hua Fang, Xiaoli Zhao and Xiaojin Xie. Effects of earthworms and substrate on *Iris pseudacorus* growth in a constructed wetland system. Submitted
- (5) **Defu Xu**, Yingxue Li, Hua Fang, Xiaoli Zhao, Yidong Guan. Response of three wetland plants growth and nutrient distribution to earthworms in constructed wetland system. Applied Mechanics and Materials. Accept
- (6) **Defu Xu**, Yingxue Li, Xiaoli Zhao, Hua Fang. Effect of wetland plants growth characteristics on purifying wastewater in constructed wetland. Proceedings of the 5th International Congress on Mathematical Biology, 2011.
- (7) **Defu Xu**, Yingxue Li, Xianghua Xu, Xiaoli Zhao, Hua Fang. Effect of microbial activity in the rhizosphere of wetland plants on removal of total organic carbon and nitrogen from wastewater. Environmental Engineering and Management Journal, 2011, 10: 781-786.
- (8) **Defu Xu**, Jianming Xu, Yan He, P.M. Huang. Effect of iron plaque formation on phosphorus accumulation and availability in the rhizosphere of wetland plants. Water, Air, & Soil Pollution, 2009, 200:79–87
- (9) **Defu Xu**, Jianming Xu, Jianjun Wu, Akmal Muhammad. Studies on the phosphorus adsorption capacity of substrates used in constructed wetland systems. Chemosphere, 2006 (63):344-352.
- (10) Muhammad Akmal, Haizhen Wang, Jianjun Wu, Jianming Xu, **Defu Xu**. Changes in enzymes activity substrate utilization pattern and diversity of soil microbial communities under cadmium pollution. Journal of Environmental Science, 2005(5):802-807.
- (11) **XU De-fu**, LI Ying-xue, Zheng Jian-wei, Zhao Xiao-li, Fang Hua. Effect of substrates on evaporation and purification of wastewater in constructed wetland. China Environmental Science, 2011. In Chinese
- (12) **XU Defu**, LI Ying-xue, Zheng Jian-wei, Fang Hua, Zhao Xiao-li. Effect of different substrates on photosynthetic characteristics of *Iris pseudacorus L.* and the capacity of purify wastewater. Environmental Science, 2011. In Chinese
- (13) **XU De-fu**, LI Ying-xue, Liu Shi-xin, Wu Rong-tao. Effect of earthworms on the photosynthetic characteristics of wetland plants and their capacity to purify wastewater. Acta Ecologica Sinica, 2011. In Chinese
- (14) XU Xiang-hua, **XU De-fu**, WANG Xiao-rong, WU Ji-chun, LIN Ren-zhang. Biological Responses of Maise Seedlings to Single and Combined Stress of Cadmium and Phenanthrene. Environmental Science, 2011. In Chinese
- (15) ZHAO Xiao-li, **XU De-fu**, LI Ze-hong, CHEN Jian-jun, DONG Bin, WU Rong-tao. Influence of Municipal Sludge Land Application to Ryegrass Physical and Chemical Properties and Quality. Journal of Agro-Environment Science, 2010. In Chinese
- (16) **XU De-fu**, LI Ying-xue, FANG Hua, ZHAO Xiao-li, WU Fang-fang. Earthworm's optimizing function in constructed wetland system. Journal of Nanjing University of Information Science & Technology (Natural Science Edition), 2010. In Chinese
- (17) **XU De-fu**, NING Hu-sen, WANG Rang-hui, JI Xiao-min, LU Xiao-li, LI Qi. Effects of different sand control engineering measures on soil fertility in Moyu County of Xinjiang.

- Chinese Journal of Ecology, 2010. In Chinese
- (18) **Xu De-fu** Li Ying-xue. Preliminary investigation on effect of different constructed wetland substrates on capacity of removal of TOC in wastewater. Chinese Journal of Environmental Engineering, 2010. In Chinese
- (19) **XU De-fu**, LI Ying-xue, ZHAO Xiao-li, FANG Hua. Relationship between Zinc Uptake and Accumulation of Wetland Plant and Iron Plaque on the Root Surface. Acta Botanica Boreali-Occidentalia Sinica, 2009. In Chinese
- (20) **XU De-fu**, LI Ying-xue, FANG Hua, ZHAO Xiao-li. Effects of Physiological Character of Four Wetland Plants on Design of the Constructed Wetland Bed. Journal of Agro-Environment Science, 2009. In Chinese
- (21) **XU De-fu**, Li Ying-xue, Zhao Xiaoli, Fang Hua, Zhang Hui. Change in phosphorus uptake capacity of wetland plants under stress of excess of zinc. Chinese Journal of Environmental Engineering, 2009. In Chinese
- (22) **Xu De-fu**, Li Ying-xue, Li Jiu-hai, Wu Fang-fang. Resistance and affection factors to high concentration of zinc uptake and accumulation by some emergent plants. Ecology and Environmental Sciences, 2009. In Chinese
- (23) **XU De-fu**, WANG Rang-hui, LI Ying-xue, ZHANG Hui. Review on Carbon Cycle in Terrestrial Ecosystem and Its Influenced Factors. Chinese Journal of Agrometeorology, 2009. In Chinese
- (24) **XU De-fu**, XU Jian-ming, LI Ying-xue. The Microbial Activity of the Substrates in Constructed Wetland and Its Effect on the Removal of Nitrogen from Wastewater. Journal of Agro-Environment Science, 2008. In Chinese
- (25) **XU De-fu**, LI Ying-xue. Potential Application of Earthworm to Land Treatment of Wastewater. Environmental Science & Technology, 2008. In Chinese
- (26) LIAO Jing-Lin, SU Yue, **XU De-fu**, FENG Ze-wei, LI Hang, HAN Feng, CHEN Hai-yan. Substrate Screening and Application in Constructed Wetland Ecological Engineering System. Environmental Science & Technology, 2008. In Chinese
- (27) **XU De-fu**, Li Ying-Xue. Screen Plants and Substrates of the Constructed Wetland for Treatment of Wastewater. Wetland Science, 2007. In Chinese
- (28) **XU De-fu**, XU Jian-min, WANG Hua-sheng, LUO An-cheng, XIE Dan-chao, YING Qiu-shi. Absorbability of wetland plants on N and P from eutrophic water. Plant Nutrition and Fertilizing Science, 2005. In Chinese