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First, I participated the study of greenhouse gases including CH<sub>4</sub> and N<sub>2</sub>O emission in Agricultural University of Hebei from 2011 to 2012. Then I researched the bioactive humic acid about its effects of soil nitrogen, phosphor, and COD loss by runoff and leaching on bare land in environmental restoration laboratory of Institute of Agricultural Environment and Sustainable Development Chinese Academy of Agricultural Sciences in 2012. And analyzed the bioactive humic acid about its effects on nutrients running off (leaching out), bok choy growth and soil nutrient change with different fertilizers in Zhangzhou city of Fujian Province from 2012 to 2013. Now my study during doctor's degree is about N balance and its environmental consequences in rotation system in Yangtze River basin. The goal of this study is supply nitrogen balance (Influx and efflux) and key influence factor in different areas (upstream, midstream and downstream) of Yangtze River basin. At the same time, I want to establish a set of N environmental cost assessment system based on the watershed scale.