

## **Genxing Pan**

### **Professor of Soil Science**

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#### **Education:**

- (BA) Soil Science and Agro-chemistry, Zhejiang Agric. University, Hangzhou, China, 1978.2–1982.1
- (MS) Soil Science and Agro-chemistry. Nanjing Agric. University, Nanjing, China, 1984.1–1984.12
- (PhD, Soil Science in Agriculture, Nanjing Agricultural University, Nanjing, China, 1985.3–1988.3

#### **Research interests and expertise:**

- SOM and soil carbon sequestration, greenhouse gas mitigation and carbon management in agriculture, biochar science and technology, climate change and agriculture.

#### **Current projects:**

- [2015/2019] UNEP GEF B4SS, GEF2015. Biochar for global soil sustainable management, 600 K USD, China PI, and member of steering committee;
- [2017/2020] China Natural Science Foundation, 41771332. Aggregate biophysics and the capacity of C-N-H<sub>2</sub>O retention in biochar amended rice paddies, 650 K CNY, PI;
- [2016-2019] Biochar for Soil Restoration and organo-mineral compound fertilizer in green agriculture, Beijing Sanju Environment Protection Co Ltd, 1 750 000 CNY. PI.

#### **Current teaching:**

- Soil Science (bilingual course) , spring term.

#### **Selected publications:**

- Bian RJ /Pan G. Pyrolysis of crop residues in a mobile bench-scale pyrolyser: Product characterization and environmental performance. *Journal of Analytical and Applied Pyrolysis*, 2016, 119, 52-59.
- Omondi M O /Pan G. Quantification of biochar effects on soil hydrological properties using meta-analysis of literature data. *Geoderma*, 2016, 274, 28-34.
- Lou Y M /Pan G. Water extract from straw biochar used for plant growth promotion: an initial test. *Bioresources*, 2016, 11(1):249-266.
- Liu Y, Wang P /Pan G. Microbial activity promoted with organic carbon accumulation in macroaggregates of paddy soils under long-term rice cultivation. *Biogeosciences*, 2016, 13(24):6565-6586.
- Bian RJ /Pan G. Cd immobilization in a contaminated rice paddy by inorganic stabilizers of calcium hydroxide and silicon slag and by organic stabilizer of biochar. *Environmental Science and Pollution Research*, 2016, 23(10):10028~10036.

### **Prizes, awards, honors:**

- Presided over International Workshop on Biochar and Sustainable Agriculture, and China-ASEAN International Technical Training on Biochar and Application in Sustainable Agriculture, Nanjing, in October, 2016;
- Member, Board of Directors, International Biochar Initiative, since 2015;
- Nominated panel chief, China National Consultancy Board, Resource and Environmental Science of Agriculture, Ministry of Education, 2002-2014
- Nominated panel member, International Biosphere-Geosphere Project, China National Commission, 2006-2012
- Nominated panel member, Working Committee on UN Environmental Consultancy, China Association of Science and Technology, 2005-2010;
- Nominated board member, International Science Committee, International Karst Research Center, UNESCO, since 2009;
- Nominated board member, Science Committee, China State Key Lab of Environmental Geochemistry, Chinese Academy of Science, since 2005
- Nominated member, International Advisory Board, European Project of SoilTrEC, -2009-2014.
- <http://eusoils.jrc.ec.europa.eu/projects/soiltrec/>
- Member, expert committee, Institute of Agriculture and Climate Change, Chinese Academy of Agricultural Sciences, since 2010;
- Deputy director, academic committee, Provincial Key Lab of forest and C sink, Zhejiang Agro-Forestry University, since 2010
- Contributing author to IPCC AR4, 2007. Climate Change Mitigation, Chapter 8 Mitigation in Agriculture.
- Lead author of 2nd National Assessment Report of Climate Change of China, released in February, 2012.
- Lead author, Scientific Assessment of Climate Change and Environment of China. Chief Editor: Dahe Qin. Released March, 2013.
- Chief lead author. Assessment Report of climate change impacts on agricultural production of China. China Agriculture Press, Beijing China. Published in January, 2011. in Chinese
- Coordinating Lead Author (CLA), 2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands. Chapter 2. IPCC Task Force Bureau (TFB) of the Task Force on National Greenhouse Gas Inventories (TFI).
- Leader author, SCOPE RAP project on Soil C Benefits, Chap 23. Positive Case of China. Ispra, Italy, 2013.
- Contribution Author, UNEP Emission Gap 2013. Chapter 4. Agriculture
- Editor: Global Change Biology Bioenergy, Journal of Solid Waste Management, Chemical and Biological Technologies in Agriculture (Springer), the Biochar Journal.
- Section editor, Chinese Journal of Agricultural Science
- Vice editor-in-chief. Chinese Journal of Earth and Environment
- Vice editor-in-chief, Chinese Journal of Resource and Environment of Agriculture