

Chen Ming



Status at NTU: Research Fellow (completed)

Research Topic: Climate change & biogeochemical cycles, molecular simulation, water quality simulation and genomics

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Education:

- Ph.D, Hunan University, China, 2014, 10.
- BSc, East China Institute of Technology, China, 2008, 07

Working & Research Experiences

- 2015.01- Present - Research Fellow, School of Civil & Environmental Engineering, Nanyang Technological University, Singapore
- 2014.11-Present - Assistant Professor, College of Environmental Science and Engineering, Hunan University, Changsha 410082, China

Editorial Board Member

- Scientific Reports (2014 IF=5.578), Nature Publishing Group (NPG).

Research Interests

- Climate change & biogeochemical cycles
- Molecular simulation
- Water quality simulation and genomics

Honors & Awards

- Xiaoge Xiong Award
- Outstanding talent scholarship for young Ph.D students, shanghai tongji gao tingyao environmental science & technology development foundation
- 2012 National scholarship for graduate students
- 2013 National scholarship for graduate students

Publications

- Chen M, Xu P, Zeng G, et al. Bioremediation of soils contaminated with polycyclic aromatic hydrocarbons, petroleum, pesticides, chlorophenols and heavy metals by composting: Applications, microbes and future research needs[J]. *Biotechnology Advances*, 2015, 33: 745–755.(SCI 2014 IF=9.015).
- Chen M, Zeng G, Lai C, et al. Molecular basis of laccase bound to lignin: insight from comparative studies on the interaction of *Trametes versicolor* laccase with various lignin model compounds[J]. *RSC Advances*, 2015, 5(65): 52307-52313. (SCI 2014IF= 3.84)

- Zeng Guangming, Chen Ming. and Zeng Zhuotong. Risks of Neonicotinoid Pesticides. *Science* 340: 1403. (SCI 2013 IF= 31.477)
- Zeng Guangming, Chen Ming. and Zeng Zhuotong. Shale gas: surface water also at risk. *Nature*, 499: 154. (SCI 2013 IF= 42.351)
- Chen Ming, Tan Zhongyang, Jiang Jianhui, Li Mingfu, Chen Hongjun, Shen Guoli, Yu Ruqin. Similar distribution of simple sequence repeats in diverse completed Human Immunodeficiency Virus Type 1 genomes. *FEBS Letters*, 2009, 583: 2959-2963. (SCI 2013 IF= 3.341)
- Chen Ming, Tan Zhongyang, Zeng Guangming, Peng Jun. Comprehensive Analysis of Simple Sequence Repeats in Pre-miRNAs. *Molecular Biology and Evolution*, 2010, 27: 2227-2232. (SCI 2013 IF= 14.308)
- Chen Ming, Zeng Guangming, Tan Zhongyang, Jiang Min, Zhang Jiachao, Zhang Chang, Lu Lunhui, Lin Yuzhen, Peng Jun. Compound microsatellites in complete *Escherichia coli* genomes. *FEBS Letters*, 2011, 585: 1072-1076. (SCI 2013 IF= 3.341)
- Chen Ming, Zeng Guangming, Tan Zhongyang, Jiang Min, Li Hui, Liu Lifeng, Zhu Yu, Yu Zhen, Wei Zhen, Liu Yuanyuan, Xie Gengxin. Understanding lignin-degrading reactions of ligninolytic enzymes: binding affinity and interactional profile. *PLoS ONE*, 2011, 6: e25647. (SCI 2013 IF= 3.534)
- Chen Ming, Tan Zhongyang, Zeng Guangming. Microsatellite is an important component of complete Hepatitis C virus genomes. *Infection, Genetics and Evolution*, 2011, 11: 1646-1654. (SCI 2013 IF= 3.264)
- Chen Ming, Tan Zhongyang, Zeng Guangming, Zeng Zhuotong. Differential distribution of compound microsatellites in various Human Immunodeficiency Virus Type 1 complete genomes. *Infection, Genetics and Evolution*, 2012, 12: 1452-1457. (SCI 2013 IF= 3.264)
- Chen Ming, Tan Zhongyang, Zeng Guangming. MfSAT: Detect simple sequence repeats in viral genomes. *Bioinformatics*, 2011, 6: 171-172.
- Chen Ming, Tan Zhongyang, Zeng Guangming. MRST: A Tool for the Storage of MicroRNA Computational Resources. *International Journal of Bioinformatics Research*, 2011, 3: 190-193.
- Liu Lifeng, Zeng Zhuotong, Zeng Guangming, Chen Ming, Zhang Yu, Zhang Jiachao, Fang Xin, Jiang Min, Lu Lunhui. Study on binding modes between cellobiose and beta-glucosidases from glycoside hydrolase family 1. *Bioorganic and Medicinal Chemistry Letters*, 2012, 22: 837-843. (SCI 2013 IF= 2.331)
- Lu Lunhui, Zeng Guangming, Fan Changzheng, Ren Xiujian, Wang Cong, Zhao Qianru, Zhang Jiachao, Chen Ming, Chen Anwei, Jiang Min. Characterization of a laccase-like multicopper oxidase from newly isolated *Streptomyces* sp C1 in agricultural waste compost and enzymatic decolorization of azo dyes. *Biochemical Engineering Journal*, 2013, 72: 70-76. (SCI 2013 IF= 2.368)
- Zeng Guangming, Zhang Jiachao, Chen Yaoning, Yu Zhen, Yu Man, Li Hui, Liu Zhifeng, Chen Ming, Lu Lunhui, Hu Chunxiao. Relative contributions of archaea and bacteria to microbial ammonia oxidation differ under different conditions during agricultural waste composting. *Bioresource Technology*, 2011, 102: 9026-9032. (SCI 2013 IF= 5.039)
- Zhang Yu, Zeng Zhuotong, Zeng Guangming, Liu Xuanming, Liu Zhifeng, Chen Ming, Liu Lifeng, Li Jianbing, Xie Gengxin. Effect of Triton X-100 on the removal of aqueous phenol by laccase analyzed with a combined approach of experiments and molecular docking. *Colloids and Surfaces B: Biointerfaces*, 2012, 97: 7-12. (SCI 2013 IF= 4.287)
- Zhang Jiachao, Zeng Guangming, Chen Yaoning, Yu Man, Huang Hongli, Fan Changzheng, Zhu Yi, Li Hui, Liu Zhifeng, Chen Ming, Jiang Min. Impact of *Phanerochaete chrysosporium*

- inoculation on indigenous bacterial communities during agricultural waste composting. *Applied Microbiology and Biotechnology*, 2013, 97: 3159-3169. (SCI 2013 IF= 3.811)
- Jiang Min, Zeng Guangming, Zhang Chang, Ma Xiaoying, Chen Ming, Zhang Jiachao, Lu Lunhui, Yu Qian, Hu Langping, Liu Lifeng. Assessment of heavy metal contamination in the surrounding soils and surface sediments in Xiawangang River, Qingshuitang District. *PLoS ONE*, 2013, 8: e71176. (SCI 2013 IF= 3.534)
 - Zhu Yu, Zeng Guangming, Zhang Panyue, Zhang Chang, Ren Miaomiao, Zhang Jiachao, Chen Ming. Feasibility of bioleaching combined with Fenton-like reaction to remove heavy metals from sewage sludge. *Bioresource Technology*, 2013, 142: 530-534. (SCI 2013 IF= 5.039)
 - Zhang Jiachao, Zeng Guangming, Chen Yaoning, Liang Jie, Zhang Chang, Huang Binbin, Sun Weiming, Chen Ming, Yu Man, Huang Hongli, Zhu Yu. *Phanerochaete chrysosporium* inoculation shapes the indigenous fungal communities during agricultural waste composting. *Biodegradation*, 2014. DOI: 10.1007/s10532-014-9690-5. (SCI 2013 IF= 2.492)
 - Lu Lunhui, Zeng Guangming, Fan Changzheng, Zhang Jiachao, Chen Anwei, Chen Ming, Jiang Min, Yuan Yujie, Wu Haipeng, Lai Mingyong, He Yibin. Diversity of two-domain laccase-like multicopper oxidases genes in *Streptomyces* spp.: identification of genes potentially involved in extracellular activities and lignocelluloses degradation during agricultural waste composting. *Applied and Environmental Microbiology*, 2014. DOI: 10.1128/AEM.00223-14. (SCI 2013 IF= 3.952)
 - Lai Cui, Zeng Guangming, Huang Danlian, Zhao Meihua, Chen Ming, Wei Zhen, Huang Chao, Xu Piao, Li Ningjie, Li Xue, Zhang Chen. Colorimetric screening of beta-glucosidase inhibition based on gold nanocomposites. *Analytical Methods*, 2014, 6: 312-315. (SCI 2013 IF= 1.938)
 - Zhang Yu, Zeng Zhuotong, Zeng Guangming, Liu Xuanming, Chen Ming, Liu Lifeng, Liu Zhifeng, Xie Gengxin. Enzyme-Substrate Binding Landscapes in the Process of Nitrile Biodegradation Mediated by Nitrile Hydratase and Amidase. *Applied Biochemistry and Biotechnology*, 2013, 170: 1614-1623. (SCI 2013 IF= 1.687)
 - Chen Anwei, Zeng Guangming, Chen Guiqiu, Liu Liang, Shang Cui, Hu Xinjiang, Lu Lunhui, Chen Ming, Zhou Ying, Zhang Qihua. Plasma membrane behavior, oxidative damage, and defense mechanism in *Phanerochaete chrysosporium* under cadmium stress. *Process Biochemistry*, 2014, 49: 589-598. (SCI 2013 IF= 2.524)