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## 2017年科研成果

科研项目

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科研成果

发表文章

研究团队

Bo Guan, Junbao Yu\*, Aixin Hou, Guangxuan Han, Guangmei Wang, Fanzhu Qu, Jiangbao Xia, Xuehong Wang. 2017. The ecological adaptability of *Phragmites australis* to interactive effects of water level and salt stress in the Yellow River Delta. *Aquatic Ecology*, 51:107-116. DOI: 10.1007/s10452-016-9602-3.

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Baohua Xie , Jiangxin Gu \*, Junbao Yu\*, Guangxuan Han, Xunhua Zheng, Yu Xu and Haitao Lin. 2017. Effect of N fertilizer application on soil N<sub>2</sub>O emission and CH<sub>4</sub> uptake: A two year study in an apple orchard in Eastern China. *Atmosphere*. 8 (10) :181 doi:10.3390/atmos8100181.

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Tian Xiuhui, Xu Yingjiang, Gong Xianghong, Han Dianfeng, Wang Zhongquan, Zhou Quanli, Sun Chunxiao, Ren Chuanbo, Xue Jinglin, Xia Chuanhai\*. 2017. Environmental status and early warning value of the pollutant Semicarbazide in Jincheng and Sishili Bays, Shandong Peninsula, China. *Science of the Total Environment*, 576, 868 - 878.

Hongjuan Li, Ying Liu, Yuetao Yi, Qin Miao, Sujing Liu, Feng Zhao, Wei Cong, Chunhua Wang, Chuanhai Xia. 2017. Purification of quercetin-3-O-sophoroside and isoquercitrin from *Poacynum hendersonii* leaves using macroporous resins followed by Sephadex LH-20 column chromatography. *Journal of Chromatography B*, 1048, 56 - 63.

Bi YJ+, Sun ZC+, Zhang J, Liu EQ, Shen HM, Lai KL, Zhang S, Guo XT, Sheng YT, Yu CY, Qiao XQ, Li B\*, Zhang HX\*. 2017. Manipulating the expression of a cell wall invertase gene increases grain yield in maize. *Plant Growth Regul.* 84(1): 37-43.

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Yang L, Liu H, Fu SM, Ge HM, Tang RJ, Yang Y, Wang HH, Zhang HX\*. 2017. Na<sup>+</sup>/H<sup>+</sup> and K<sup>+</sup>/H<sup>+</sup> antiporters AtNHX1 and AtNHX3 from *Arabidopsis* improve salt and drought tolerance in transgenic poplar. *Biol Plant.* 61(4): 641-650.

Wenchao Yu, Cheng He, Zhongqiang Cai , Fei Xu, Lei Wei , Jun Chen, Qiuyun Jiang, Na Wei , Zhuang Li , Wen Guo and Xiaotong Wang\*. 2017. A Preliminary Study on the Pattern, the Physiological Bases and the Molecular Mechanism of the Adductor Muscle Scar Pigmentation in Pacific Oyster Crassostrea gigas. Frontiers in Physiology., 9(8), doi: 10.3389/fphys.2017.00699.

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战超, 于君宝\*, 王庆, 栗云召, 周迪. 2017. 近60年莱州湾东部砂质海岸地貌的时空动态. 海洋学报, 39 (9) :90-100.

#### 申请与授权专利

机械研磨-催化还原联合处理库存DDT类化合物的方法 (201710885380.5) , 马宣言, 刘莺, 刘苏静, 夏传海, 董志成,

一种处理库存DDT类化合物的联合方法 (201710885379.2) , 刘莺, 马宣言, 刘苏静, 夏传海, 董志成。

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提高植物生物量和产量的方法 (ZL 201310017091.5) , 张洪霞, 李蓓, 刘华, 何祖华, 2017.

Crop grain filling gene (GIF1) and the application, U.S. Patent No.9,139,840, 何祖华, 张洪霞, 李蓓, 刘华, 2017.

一种杨树PtCYP85A3基因及应用 (201710048522.2) , 张洪霞, 2017.

#### 科技获奖

2017年, 于君宝获中国自然资源学会优秀科技奖.

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