

CURRICULUM VITAE

Personal Information			
Name	Huang, Jianliang	Gender	Male
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Tel	+86-27-87284131	Fax	+86-27-87284131
Research Interest			
<ul style="list-style-type: none">➤ Yield potential and high yielding cultivation of irrigated rice➤ Photosynthesis in rice➤ Nutrient utilization efficiency and nutrients management➤ Modern farming system			
Professional Memberships			
<ul style="list-style-type: none">➤ Member of the Council in the Crop Cultivation Professional Committee of China➤ Member of the Agronomy Society of China➤ Member of the Crop Science Society of China➤ Member of the Soil Science Society of China			
Other Roles			
<ul style="list-style-type: none">➤ Secretary General of the Undergraduate Teaching Guidance Committee in the Plant Production Specialty of the Ministry of Education in China➤ The Member of the Expert Committee in the Rice High-yield Establishment of the China Agriculture Department➤ Associated Editor of The Crop Journal			
Education & Working Experience			
<ul style="list-style-type: none">➤ Education<ul style="list-style-type: none">Ph.D. Crop Physiology, December 2003 Hunan Agricultural University (HNAU, China) /International Rice Research Institute (IRRI, Philippines) Advisor: Yingbin Zou (HNAU), Shaobing Peng (IRRI)B.S. Soil Science and Agrochemistry, July 1985 Hunan Agriculture University, Changsha, Hunan, China➤ Working Experience<ul style="list-style-type: none">2004-present Professor			



	Huazhong Agricultural University (Wuhan, China)
1998-2003	Associate Professor Hunan Agricultural University (Changsha, China)
1992-1997	Lecturer Hunan Agricultural University (Changsha, China)
1985-1992	Teaching Assistant Hunan Agricultural University (Changsha, China)

Publications

● **SCI** (* corresponding author):

- Xinping Chen, Zhenling Cui, Mingsheng Fan, Peter Vitousek, Ming Zhao, Wenqi Ma, Zhenlin Wang, Weijian Zhan, Xiaoyuan Yan, Jianchang Yang, Xiping Deng, Qiang Gao, Qiang Zhang, Shiwei Guo, Jun Ren, Shiqing Li, Youliang Ye, Zhaohui Wang, **Jianliang Huang**, Qiyuan Tang, Yixiang Sun, Xianlong Peng, Jiawang Zhang, Mingrong He, Yunji Zhu, Jiquan Xue, Guiliang Wang, Liang Wu, Ning An, Liangquan Wu, Lin Ma, Weifeng Zhang, & Fusuo Zhang*. Producing more grain with lower environmental costs. *Nature*, 2014, 514,23: 486-489.
- Peng SB , **Huang JL** , Sheehy JE , Laza RC , Visperas RM , Zhong XH , Centeno GS , Khush GS , Cassman KG*. Rice yields decline with higher night temperature from global warming. *PNAS*, 2004, 101: 9971-9975.
- Dongliang Xiong, Xi Liu, Cyril Douthe, Limin Liu, Yong Li, Shaobing Peng, and **Jianliang Huang***. Rapid responses of mesophyll conductance to changes of CO₂ concentration, temperature and irradiance are affected by N supplements in rice. *Plant Cell & Environment*. 2015, 38, 2541–2550.
- Dongliang Xiong, Jia Chen, Tingting Yu, Wanlin Gao, Xiaoxia Ling, Yong Li, Shaobing Peng and **Jianliang Huang***. SPAD-based leaf nitrogen estimation is impacted by environmental factors and crop leaf characteristics. *Scientific Reports*. 2015, www.nature.com/articles/srep13389.
- Xiong DL, Yu TT, Zhang T, Li Y, Peng SB and **Huang JL**. Leaf hydraulic conductance is coordinated with leaf morphoanatomical traits and nitrogen status in the genus *Oryza* . *J Exp Bot*. 2015, 66, 741-748.
- Dongliang Xiong , Tingting Yu, Xi Liu, Yong Li, Shaobing Peng, and **Jianliang Huang***. Heterogeneity of photosynthesis within leaves is associated with alteration of leaf structural features and leaf N content per leaf area in rice. *Functional Plant Biology*, 2015, 42, 687–696.
- Shah Fahad, Saddam Hussain, Shah Saud, Mohsin Tanveer, Ali Ahsan Bajwa, Shah Hassan, Adnan Noor Shah, Abid Ullah, Chao Wu, Faheem Ahmed Khan, Farooq Shah, Sami Ullah, Yajun Chen, **Jianliang Huang***. A biochar application protects rice pollen from high-temperature stress. *Plant Physiol. Bioch.*, 2015, 96:281-287.
- Shah Fahad, Lixiao Nie, Saddam Hussain, Fahad Khan, Faheem Ahmed Khan, Adnan Tabassum, Chao wu, Dongliang Xoing, Shah Saud, Haji Muhammad, Kehui cui, **Jianliang Huang***. Rice Pest Management And Biological Control. *Sustainable Agriculture Reviews*, 2015, 16:85-106.
- Shah Fahad, Saddam Hussain, Shah Saud, Shah Hassan, Darakhshan , Yutiao Chen, Nanyan Deng, Fahad Khan, Chao Wu, Wei Wu, Farooq Shah, Bashir Ullah, Muhammad Yousaf, Saqib Ali and

Jianliang Huang*. Grain Cadmium and Zinc Concentrations in Maize Influenced by Genotypic Variations and Zinc Fertilization. CLEAN-Soil Air Water, 2015, 43 (10), 1433–1440.

10. Xiong DL, Yu TT, Ling XX, Fahad S, Peng SB, **Li Y*** and **Huang JL***. Sufficient leaf transpiration and nonstructural carbohydrates are beneficial for high-temperature tolerance in three rice (*Oryza sativa*) cultivars and two nitrogen treatments. *Funct Plant Biol.* 2015,42(4):347-356.
11. Shah Fahad, Saddam Hussain, Fahad Khan, Chao Wu, Shah Saud, Shah Hassan, Naeem Ahmad, Deng Gang, Abid Ullah, **Jianliang Huang***. Effects of tire rubber ash and zinc sulfate on crop productivity and cadmium accumulation in five rice cultivars under field conditions. *Environ Sci Pollut Res*, 2015, 22:12424–12434.
12. Shah Fahad, Saddam Hussain, Bhagirath Singh Chauhan, Shah Saud, Chao Wu, Shah Hassan, Mohsin Tanveer, Amanullah Jan, **Jianliang Huang***. Weed growth and crop yield loss in wheat as influenced by row spacing and weed emergence times. *Crop Protection.* 2015,71: 101-108.
13. Nanyan Deng, Xiaoxia Ling, Yang Sun, Congde Zhang, Shah Fahad, Shaobing Peng, Kehui Cui, Lixiao Nie, **Jianliang Huang***. Influence of temperature and solar radiation on grain yield and quality in irrigated rice system. *European Journal of Agronomy.* 2015,64:37-46.
14. Shah Fahad, Saddam Hussain, Asghari Bano, Shah Saud, Shah Hassan, Darakh Shan, Faheem Ahmed Khan, Fahad Khan, Yutiao Chen, Chao Wu, Muhammad Adnan Tabassum, Ma Xiao Chun, Muhammad Afzal, Amanullah Jan, Mohammad Tariq Jan, **Jianliang Huang***. Potential role of phytohormones and plant growth-promoting rhizobacteria in abiotic stresses: consequences for changing environment. *Environ Sci Pollut Res.* 2015, 22:4907–4921.
15. Fahad S, Khan FA, Pandupuspitasari NS, Ahmed MM, Liao YC, Waheed MT, Sameeullah M, Darkhshan, Hussain S, Saud S, Hassan S, Jan A, Jan MT, Wu C, Ma XC, **Huang JL***. Recent developments in therapeutic protein expression technologies in plants. *Biotech Lett.* 2015,37(2): 265-279.
16. Fahad S, Hussain S, Matloob A, Khan FA, Khaliq A, Saud S, Hassan S, Shan D, Khan F, Ullah N, Faiq M, Khan MR, Tareen AK, Khan A, Ullah A, Ullah N, **Huang JL***. Phytohormones and plant responses to salinity stress: a review. *Plant Growth Regul.* 2015, 75(2):391-404.
17. Wei Wu, Farooq Shah, Fahad Shah, **Jianliang Huang***. Rice sheath blight evaluation as affected by fertilization rate and planting density. *Aust. Plant Pathol.* 2015, 44:183–189.
18. Shah Fahad, Lixiao Nie, Yutiao Chen, Chao Wu, Dongliang Xiong, Shah Saud, Liu Hongyan, Kehui Cui, **Jianliang Huang***. Crop Plant Hormones and Environmental Stress. *Sustainable Agriculture Reviews.* 2015, 15: 371-400. DOI 10.1007/978-3-319-09132-7_10.
19. Fahad S., Hussain S., Saud S., Hassan S., Muhammad H., Shan D., Chen C., Wu C., Xiong D., Khan S. B., Jan A., Cui K., **Huang J***. Consequences of narrow crop row spacing and delayed *Echinochloa colona* and *Trianthema portulacastrum* emergence for weed growth and crop yield loss in maize. *Weed Research.* 2014, 54(5):475-483.

20. Jian Zaiping, Wang Fei, Li Zhongzheng, Chen Yutiao, Ma Xiaochun, Nie Lixiao, Cui Kehui, Peng Shaobing, Lin Yongjun, Song Hongzhi, Li Yong, **Huang Jianliang***. Grain yield and nitrogen use efficiency responses to N application in Bt (CryIAb/Ac) transgenic two-line hybrid. rice. *Field Crops Res.*, 2014, 155: 184-191.
21. Wu Wei, Wan Xuejie, Shah Farooq, Fahad Shah, **Huang Jianliang***. The Role of Antioxidant Enzymes in Adaptive Responses to Sheath Blight Infestation under Different Fertilization Rates and Hill Densities. *Scientific World Journal*. 2014, DOI: 10.1155/2014/502134.
22. Shah Fahad, Lixiao Nie, Faheem Ahmed Khan, Yutiao Chen, Saddam Hussain, Chao Wu, Dongliang Xiong, Wang Jing, Shah Saud, Farhan Anwar Khan, Yong Li, Wei Wu, Fahad Khan, Shah Hassan, Abdul Manan, Amanullah Jan, **Jianliang Huang***. Disease resistance in rice and the role of molecular breeding in protecting rice crops against diseases. *Biotechnol Lett.* 2014, 36:1407-1420.
23. Shah Farooq, Nie Lixiao, Cui Kehui, Shah Tariq, Wu Wei, Chen Chang, Zhu Liyang, Ali Farhan, Fahad Shah, **Huang Jianliang***. Rice grain yield and component responses to near 2 degrees C of warming. *Field Crops Res.*, 2014, 157: 98-110.
24. Wu W., Nie L., Shah F., Liao Y., Cui K., Jiang D., Xie J., Chen Y., **Huang J***. Influence of canopy structure on sheath blight epidemics in rice. *Plant Path.*, 2014, 63: 98-108.
25. Wu Wei, Liao Yuncheng, Shah Farooq, Nie Lixiao, Peng Shaobing, Cui Kehui, **Huang Jianliang***. Plant growth suppression due to sheath blight and the associated yield reduction under double rice-cropping system in central China. *Field Crops Res.*, 2013, 144: 268-280.
26. Wu Wei, Nie Lixiao, Liao Yuncheng, Shah Farooq, Cui Kehui, Wang Qiang, Lian Yun, **Huang Jianliang***. Toward yield improvement of early-season rice: Other options under double rice-cropping system in central China. *Eur. J. Agron.*, 2013, 45: 75-86.
27. Lian Yun, Chen Mingxia, Shah Farooq, Wang Qiang, Chen Yutiao, Cui Kehui, Nie Lixiao, **Huang Jianliang***. Difference between NH₄⁺ and NO₃⁻ uptake kinetics of different rice (*Oryza sativa* L.) grown hydroponically. *J. Food Agr. Env.*, 2012, 10: 437-442.
28. Wang Fei, Jian Zaiping, Nie Lixiao, Cui Kehui, Peng Shaobing, Lin Yongjun, **Huang Jianliang***. Effects of N treatments on the yield advantage of Bt-SY63 over SY63 (*Oryza sativa*) and the concentration of Bt protein. *Field Crops Res.*, 2012, 129: 39-45.
29. Wang Fei, Ye Cheng, Zhu Liyang, Nie Lixiao, Cui Kehui, Peng Shaobing, Lin Yongjun, **Huang Jianliang***. Yield differences between Bt transgenic rice lines and their non-Bt counterparts, and its possible mechanism. *Field Crops Res.*, 2012, 126: 8-15.
30. Shah F., **Huang J***, Cui K., Nie L., Shah T., Chen C., Wang K.. Impact of high-temperature stress on rice plant and its traits related to tolerance. *J. Agron. Sci.*, 2011, 149: 545-556.
31. Shah Farooq, **Huang Jianliang***, Cui Kehui, Nie Lixiao, Shah Tariq, Wu Wei, Wang Kai, Khan Zafar Hayat, Zhu Liyang, Chen Chang. Physiological and biochemical changes in rice associated with high night temperature stress and their amelioration by exogenous application of ascorbic acid (vitamin C).

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 33. **Huang JL**, Peng SB*. Comparison and standardization among chlorophyll meters in their readings on rice leaves. *Plant Prod. Sci.*, 2004, 7: 97-100.
 34. **Huang JL**, Peng SB*. Influence of storage methods on total nitrogen analysis in rice leaves. *Commun. Soil Sci. Plant Anal.*, 2004, 35:879-888.
 35. Yao Fengxian, **Huang Jianliang**, Nie Lixiao, Cui Kehui, Peng Shaobing, Wang Fei*. Dry Matter and N Contributions to the Formation of Sink Size in Early- and Late-maturing Rice under Various N Rates in Central China. *International Journal of Agriculture and Biology*. 2016, 18: 46-51.
 36. Zhe Hu, Yi Liu, Liying Huang, Shaobing Peng, Lixiao Nie, Kehui Cui, Jianliang Huang, Fei Wang. Premature heading and yield losses caused by prolonged seedling age in double cropping rice. *Field Crops Research*, 2015, 183: 147–155.
 37. W. Xu, X. S. Luo, Y. P. Pan, L. Zhang, A. H. Tang, J. L. Shen, Y. Zhang, K. H. Li, Q. H. Wu, D. W. Yang, Y. Y. Zhang, J. Xue, W. Q. Li, Q. Q. Li, L. Tang, S. H. Lu, T. Liang, Y. A. Tong, P. Liu, Q. Zhang, Z. Q. Xiong, X. J. Shi, L. H. Wu, W. Q. Shi, K. Tian, X. H. Zhong, K. Shi, Q. Y. Tang, L. J. Zhang, J. L. Huang, C. E. He, F. H. Kuang, B. Zhu, H. Liu, X. Jin, Y. J. Xin, X. K. Shi, E. Z. Du, A. J. Dore, S. Tang, J. L. Collett Jr., K. Goulding, F. S. Zhang, and X. J. Liu*. Quantifying atmospheric nitrogen deposition through a nationwide monitoring network across China. *Atmos. Chem. Phys. Discuss.*, 2015, 15, 18365–18405.
 38. Xu Wei, Cui Kehui*, Xu Aihui, Nie Lixiao, **Huang Jianliang**, Peng Shaobing. Drought stress condition increases root to shoot ratio via alteration of carbohydrate partitioning and enzymatic activity in rice seedlings. *Acta Physiol Plant* (2015) 37:9, DOI 10.1007/s11738-014-1760-0.
 39. Hussain Saddam, Zheng Manman, Khan Fahad, Khaliq Abdul, Fahad Shah, Peng Shaobing, **Huang Jianliang**, Cui Kehui, Nie Lixiao*. Benefits of rice seed priming are offset permanently by prolonged storage and the storage conditions. *Scientific Reports*. 2015, 5: DOI: 10.1038/srep08101.
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 41. Hussain S, Peng SB, Fahad S, Khaliq A, **Huang JL**, Cui KH and **Nie LX***. Rice management interventions to mitigate greenhouse gas emissions: A review. *Environmental Science and Pollution Research*. 2015, 22(5):3342-60.
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 44. Liu HY, Hussain S, Peng SB, **Huang JL**, Cui KH, Nie LX*. Potentially toxic elements concentration in milled rice differ among various planting patterns. Field Crops Res. 2014, 168:19-26.
 45. Liming Sun, Manman Zheng, Hongyan Liu, Shaobing Peng, **Jianliang Huang**, Kehui Cui, and Lixiao Nie*. Water Management Practices Affect Arsenic and Cadmium Accumulation in Rice Grains. The Scientific World Journal, 2014, DOI: 10.1155/2014/596438.
 46. Nie Lixiao, Fahad Shah, Peng Shaobing, **Huang Jianliang**, Cui Kehui. Causes of Soil Sickness Associated with Aerobic Rice Continuous Monocropping. International Journal of Agriculture and Biology. 2014, 16(2): 431-434.
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 48. Wang Kai, Zhou Hongying, Wang Bangju, Jian Zaiping, Wang Fei, **Huang Jianliang**, Nie Lixiao, Cui Kehui, Peng Shaobing*. Quantification of border effect on grain yield measurement of hybrid rice. Field Crops Res., 2013, 141: 47-54.
 49. Nie Lixiao, Peng Shaobing, Bouman Bas, Shah Farooq, **Huang Jianliang**, Cui Kehui, Wu Wei, Xiang Jing, Visperas Romeo. Synergic Effect of Flooding and Nitrogen Application on Alleviation of Soil Sickness Caused by Aerobic Rice Monocropping. Plant Prod. Sci., 2012, 15: 246-251.
 50. Nie Lixiao, Peng Shaobing, Chen Mingxia, Shah Farooq, **Huang Jianliang**, Cui Kehui, Xiang Jing. Aerobic rice for water-saving agriculture. A review. Agron. Sustain. Devel., 2012, 32: 411-418.
 51. Qi Xiaoli, Nie Lixiao, Liu Hongyan, Peng Shaobing, Shah Farooq, **Huang Jianliang**, Cui Kehui, Sun Liming. Grain yield and apparent N recovery efficiency of dry direct-seeded rice under different N treatments aimed to reduce soil ammonia volatilization. Field Crops Res., 2012, 134: 138-143.
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 54. Wu Wei, **Huang Jianliang**, Cui Kehui, Nie Lixiao, Wang Qiang, Yang Fan, Shah Farooq, Yao Fengxian, Peng Shaobing. Sheath blight reduces stem breaking resistance and increases lodging susceptibility of

rice plants. *Field Crops Res.*, 2012, 128: 101-108.

55. Yao Fengxian, **Huang Jianliang**, Cui Kehui, Nie Lixiao, Xiang Jing, Liu Xiaojin, Wu Wei, Chen Mingxia, Peng Shaobing. Agronomic performance of high-yielding rice variety grown under alternate wetting and drying irrigation. *Field Crops Res.*, 2012, 126: 16-22.
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57. Xiaoli Qi, Wei Wu, Shaobing Peng, Farooq Shah, **Jianliang Huang**, Kehui Cui, Hongyan Liu and Lixiao Nie. 2012. Improvement of early seedling growth of dry direct-seeded rice by urease inhibitors application. *Aust. J. of Crop Sci.*, 6(3):525-531.
58. Dong Wei, Kehui Cui, Junfeng Pan, Qiang Wang, Kai Wang, Xiaomei Zhang, Jing Xiang, Lixiao Nie, **Jianliang Huang**. 2012. Identification of quantitative trait loci for grain yield and its components in response to low nitrogen application in rice. *Aust. J. of Crop Sci.*, 6(6):686-994.
59. Pan Junfeng, Cui Kehui, Wei Dong, **Huang Jianliang**, Xiang Jing, Nie Lixiao. Relationships of non-structural carbohydrates accumulation and translocation with yield formation in rice recombinant inbred lines under two nitrogen levels. *Physiologia Plantarum*, 2011, 141: 321-331.
60. Wei Dong, Cui Kehui, Pan Junfeng, Ye Guoyou, Xiang Jing, Nie Lixiao, **Huang Jianliang**. Genetic dissection of grain nitrogen use efficiency and grain yield and their relationship in rice. *Field Crops Res.*, 2011, 124: 340-346.
61. Yang Mei, Wei Dong, Wang Qiang, Wang Kai, Cui Kehui, **Huang Jianliang**. Dry Matter and Nitrogen Partitioning in Rice Genotypes Varying in Different Nitrogen Harvest Index. *Philippine J. Crop Sci.*, 2011, 36: 1-9.
62. Peng Shaobing, Buresh Roland J., **Huang Jianliang**, Zhong Xuhua, Zou Yingbin, Yang Jianchang, Wang Guanghuo, Liu Yuanying, Hu Ruifa, Tang Qiyuan, Cui Kehui, Zhang Fusuo, Dobermann Achim. Improving nitrogen fertilization in rice by site-specific N management. A review. *Agron. Sustain. Devel.*, 2010, 30: 649-656.
63. Peng Shaobing, **Huang Jianliang**, Cassman Kenneth G., Laza Rebecca C., Visperas Romeo M., Khush Gurdev S.. The importance of maintenance breeding: A case study of the first miracle rice variety-IR8. *Field Crops Res.*, 2010, 119: 342-347.
64. Xu Youzun, Nie Lixiao, Buresh Roland J., **Huang Jianliang**, Cui Kehui, Xu Bo, Gong Weihua, Peng Shaobing. Agronomic performance of late-season rice under different tillage, straw, and nitrogen management. *Field Crops Res.*, 2010, 115: 79-84.
65. Nie Lixiao, Peng Shaobing, Bouman Bas A. M., **Huang Jianliang**, Cui Kehui, Visperas Romeo M., Xiang Jing. Alleviating soil sickness caused by aerobic monocropping: Responses of aerobic rice to various nitrogen sources. *Soil Sci. Plant Nutr.*, 2009, 55: 150-159.

66. Nie Lixiao , Xiang Jing , Peng Shaobing , Bouman Bas A. M. , **Huang Jianliang** , Cui Kehui , Visperas Romeo M.. Alleviating soil sickness caused by aerobic monocropping: Responses of aerobic rice to fallow, flooding and crop rotation. *J. Food Agr. Env.*, 2009, 7: 723-727.
67. Xiang Jing , Haden Van Ryan , Peng Shaobing , Bouman Bas A. M. , Visperas Romeo M. , Nie Lixiao , **Huang Jianliang** , Cui Kehui. Improvement in nitrogen availability, nitrogen uptake and growth of aerobic rice following soil acidification. *Soil Sci. Plant Nutr.*, 2009, 55: 705-714.
68. Cui Kehui , **Huang Jianliang** , Xing Yongzhong , Yu Sibin , Xu Caiguo , Peng Shaobing. Mapping QTLs for seedling characteristics under different water supply conditions in rice (*Oryza sativa*). *Physiologia Platarum*, 2008, 132: 53-68.
69. Nie Lixiao , Peng Shaobing , Bouman Bas A. M. , **Huang Jianliang** , Cui Kehui , Visperas Romeo M. , Xiang Jing. Alleviating soil sickness caused by aerobic monocropping: Responses of aerobic rice to nutrient supply. *Field Crops Res.*, 2008, 107: 129-136.
70. Hu Ruifa , Cao Jianmin , Huang Jikun , Peng Shaobing , **Huang Jianliang** , Zhong Xuhua , Zou Yingbin , Yang Jianchang , Buresh Roland J.. Farmer participatory testing of standard and modified site-specific nitrogen management for irrigated rice in China. *Agr. Sys.*, 2007, 94: 331-340.
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72. Peng SB , Buresh RJ , **Huang JL** , Yang JC , Zou YB , Zhong XH , Wang GH , Zhang FS. Strategies for overcoming low agronomic nitrogen use efficiency in irrigated rice systems in China. *Field Crops Res.*, 2006, 96: 37-47.
73. Buresh Roland , Peng Shaobing , **Huang Jianliang** , Yang Jianchang , Wang Guanghuo , Zhong Xuhua , Zou Yingbin. Rice systems in China with high nitrogen inputs. In: *Agriculture and the Nitrogen Cycle: Assessing the Impacts of Fertilizer Use on Food Production and the Environment*, 2004, 65: 143-153.
74. Sheehy JE , Peng S , Dobermann A , Mitchell PL , Ferrer A , Yang JC , Zou YB , Zhong XH , **Huang JL**. Fantastic yields in the system of rice intensification: fact or fallacy?. *Field Crops Res.*, 2004, 88: 1-8.
75. Yang WH , Peng SB , **Huang JL** , Sanico AL , Buresh RJ , Witt C. Using leaf color charts to estimate leaf nitrogen status of rice. *Agron. J.*, 2003, 95: 212-217.

Other Publications:

1. Fahad Shah, Hussain Saddam, Bano Asghari, Saud Shah, Hassan Shah, Shan Darakh, Khan Faheem Ahmed, Khan Fahad, Chen Yutiao, Wu Chao, Tabassum Muhammad Adnan, Chun Ma Xiao, Afzal Muhammad, Jan Amanullah, Jan Mohammad Tariq, **Huang Jianliang**. Potential role of phytohormones and plant growth-promoting rhizobacteria in abiotic stresses: consequences for changing environment. *Environmental Science and Pollution Research International*. 2015, 22(7) :4907-21.

2. Fei Wang, Shaobing Peng, Kehui Cui, Lixiao Nie, **Jianliang Huang**. Field performance of Bt transgenic crops: A review. *Aust. J. of Crop Sci.*. 2014, 8(1):18-26.
3. Shah Fahad, Asghari Bano, Shah Saud, Kai Wang, **Jianliang Huang**. Ultraviolet radiation effect on photosynthetic pigments, biochemical attributes, antioxidant enzyme activity and hormonal contents of wheat. *J. of Food Agr. Env.*. 2013, 11: (3&4).
4. Shah Fahad, Lixiao Nie, Amjadur Rahman, Chang Chen, Chao Wu, Shah Saud, **Jianliang Huang**. Comparative Efficacy of Different Herbicides for Weed Management and Yield Attributes in Wheat. *Am. J. of Plant Sci.*, 2013, 4, 1241-1245.
5. Liyang Zhu, Farooq Shah, Lixiao Nie, Kehui Cui, Tariq Shah, Chang Chen, Kai Wang, Qiang Wang, Yun Lian, and **Jianliang Huang**. Efficacy of sowing date adjustment as a management strategy to cope with rice (*Oryza sativa* L.) seed quality deterioration due to elevated temperature. *Aust. J. of Crop Sci.*, 2013, 7:543-549.
6. Shah Fahad , Lixiao Nie , Amjadur Rahman , Chang Chen , Chao Wu , Shah Saud , **Jianliang Huang**. Comparative Efficacy of Different Herbicides for Weed Management and Yield Attributes in Wheat. *Am. J. of Plant Sci.*, 2013, 4, 1241-1245.
7. Chen Mingxia, **Jianliang Huang**, Kehui Cui, Lixiao Nie, Farooq Shah. 2009. Genotypic Variations in terms of NH₃ Volatilization in Four Rice (*Oryza Sativa* L.) Cultivars. *Asian Journal of Plant Science* 85(5): 353-360.
8. Liu H, Hussain S, Zheng M, Sun L, Shah F, **Huang JL**, Cui K and Nie LX. Progress and constraints of dry direct-seeded rice in China. *Journal of Food, Agriculture & Environment*. 2014, 12:465-472.
9. Nie L, Peng S, Bouman BAM, **Huang J**, Cui K, Visperas RM, and Park HK. 2007. Solophos fertilizer improved rice plant growth in aerobic soil. *Journal of Integrated Field Science*, 4: 65-70.

Awards

1. “ The reform and practice of agricultural professional practice teaching mode through 'three-field plus three-early' ” (The 2nd prize of in National Higher Education, the 4th member, 2014)
2. “ The reform and practice of agricultural professional practice teaching mode through 'three-field plus three-early' ” (The first prize of Hubei province in Higher Education, the 4th member, 2013, 20130434)
3. “ Research and practice of innovative talents training system of major in plant protection ” (The first prize of Hubei province in Higher Education, the 5th member, 2013)
4. “ Optimizing the allocation of light and temperature resources to obtain high yield and high efficiency in the two grain crop cropping system ” (The first prize of CAAS, the 4th member, 2013, 2013-1-02-R04)
5. “ Key technologies integration and innovation for high rice grain yield and resource use efficiency and its application in Hubei Province ” (The 1st Hubei Provincial Prize on Development of Science and Technology, the 5th member, 2012, 2012J-245-1-036-003-R05)
6. “ Rice nitrogen management based on site specific nitrogen management and its

application ” (The 3rd Hubei Provincial Prize on Development of Science and Technology, the 2nd member, 2007)

7. “Rice yields decline with higher night temperature from global warming” (published in the PNAS, 2004) (The CGIAR Science Awards for Outstanding Scientific Article”, the 2nd author, 2005)
8. “ Rice quick cleaning stubble and no tillage cultivation technology research and Application ” (The 2nd Hunan Provincial Prize on Development of Science and Technology, the 8th member, 2003, 2003210028-2-08)
9. “Basic theory and application technology research in the high protein forage rice” (The 2nd Hunan Provincial Prize on Development of Science and Technology, the 8th member, 2002, 2002210021-2-08)
10. “ Research and development in crop seedling nutritional agent ” (The 3rd Hunan Provincial Prize on Development of Science and Technology, the 4th member, 2001, 2001016307-3-04)
11. “ Strong root and sturdy stem and weighting panicle technology development in the double cropping rice system and its application ” (The 2nd Hunan Provincial Prize on Development of Science and Technology, the 3rd member, 1999, 9926275)