九、附录：2009年植物研究所发表重要论文情况#

序号	全部作者	论文题目	刊物名称	卷期号	影响因子
1	▲Wang Xuelu, Kong Hongzhi, Ma Hong *	F-box proteins regulate ethylene signaling and more	Genes & Development	23(4): 391-396	13.62
2	▲Jennifer Brodmann, Robert Twele, Wittko Francke, Luo Yibo, Song Xiqiang, Manfred Ayasse*	Orchid mimics honey bee alarm pheromone in order to attract hornets for pollination	Current Biology	19(6): 1368-1372	10.78
3	▲Liu Qiaoling, Chen Bo, Wang Qinli, Shi Xiaoli, Xiao Zeyu, Lin Jinxin, Fang Xiaohong*	Carbon Nanotubes as molecular transporters for walled plant cells	Nano Letters	9(3): 1007-1010	10.37
4	Xu Guixia, Ma Hong, Masatoshi Nei, Kong Hongzhi*	Evolution of F-box genes in plants: different modes of sequence divergence and their relationships with functional diversification	Proceedings of the National Academy of Sciences USA	106(3): 835-840	9.38
5	Lan Ting, Yang Zhiling, Yang Xue, Liu Yan-jing., Wang Xiaoru, Zeng Qingyin	Extensive Functional Diversification of the *Populus* Glutathione Transferase Supergene Family	Plant Cell	21: (in press)	9.30
6	▲Muhammad Ramzan Khan, Hu Jinyong, Simone Riss, He Chaoying, Heinz Saedler*	MPF2-Like-A MADS-box genes control the inflated syndrome in *Withania* (Solana-ceae): roles of Darwinia Selection	Molecular Biology and Evolution	26(11): 2463-2473	7.28
7	Shan Hongyan, Laura Zahn, Stephane Guindon, P. Kerr Wall, Hongzhi Kong, Ma Hong, Claude W. Depamphilis, Jim Leebens-Mack*	Evolution of plant MADS box transcription factors: evidence for shifts in selection associated with early angiosperm diversifica-tion and concerted gene duplications	Molecular Biology and Evolution	26(10): 2229-2244	7.28
8	Wang Li, Wang Zhen, Xu Yunyuan, Sehwan Joo, Seongki Kim, Xue Zhen, Xu Zhihong, Wang Zhiyong, Chong Kang *	OsGSR1 is involved in cross-talk between gibberellins and brassinosteroids in rice	The Plant Journal	57(3): 498-510	6.49
9	Jing Yanjun, Cui Dayong, Bao Fang, Hu Zhubing, Qin Zhixiang , Hu Yuxin*	Tryptophan deficiency affects organ growth by retarding cell expansion in *Arabidopsis*	The Plant Journal	56(3): 511-521	6.49
10	Liu Peng, Li Ruili, Zhang Liang, Wang Qinli, Karsten Niehaus, Frantiek Baluka, Jozef amaj, Lin Jinxing*	Lipid microdomain polarization is required for NADPH oxidase-dependent ROS signaling in *Picea meyeri* pollen tube tip growth	The Plant Journal	60: 303-313	6.49
11	Yu Qingbo, Jiang Yan, Chong Kang*, Yang Zhongnan	AtECB2, a pentatricopeptide repeat pro-tein, is required for chloroplast transcript accD RNA editing and early chloroplast biogenesis in *Arabidopsis thaliana*	The Plant Journal	59(6): 1011-1023	6.49
12	▲Emilie F. Fradin, Zhang Zhao, Juan C. Juarez Ayala, Christian D.M. Castroverde, Ross N. Nazar, Jane Robb, Liu Chunming, Bart P.H.J. Thomma*	Genetic dissection of *Verticillium* wilt resistance mediated by tomato ve1	Plant Physiology	150: 320-332	6.11
13	Cai Wenhe, Ji Daili, Peng Lianwei, Guo Jinkui, Ma Jinfang, Zou Meijuan, Lu Congming, Zhang Lixin*	LPA66 is required for editing psbF chloro-plast transcripts in *Arabidopsis*	Plant Physiology	150(3): 1260-1271	6.11
14	▲Shunichi Takahashi*, Sara Milward, Fan Dayong, Wah Soon Chow, Murray R Badger	How does cyclic electron flow alleviate photoinhibition in *Arabidopsis*?	Plant Physiology	149(2): 1560-1567	6.11
15	Zhao Mingui, Chen Lei, Zhang Lili, Zhang Wenhao*	Nitric reductase-dependent nitric oxide (NO) production is involved in cold acclimation and freezing tolerance in *Arabidopsis*	Plant Physiology	151(10): 755-767	6.11
16	Chen Tong, Wu Xiaoqin, ChenYanmei , Li Xiaojuan, Huang Mei, Zheng Maozhong, Frantisek Baluska, Jozef Samaj, Lin Jinxing*	Combined proteomic and cytological analysis of Ca^{2+}-calmodulin regulation in *Picea meyeri* pollen tube growth	Plant Physiology	149(2): 1111-1126	6.11
17	▲Wang Xiaoqin , Yang Pingfang, Liu Zheng, Liu Weizhong, Hu Yong, Chen Hui, Kuang Tingyun, Pei Zhenming , Shen Shihua , He Yikun*	Exploring the mechanism of *Physcomi-trella patens* desiccation tolerance through a proteomic strategy	Plant Physiology	149(4): 1739-1750	6.11
18	Ma Qibin, Dai Xiaoyan, Xu Yunyuan, Guo Jing, Liu Yaju, Chen Na, Xiao Jun, Zhang Dajian, Xu Zhihong, Kang Chong *	Enhanced tolerance to chilling stress in OsMYB3R-2 transgenic rice is mediated by alteration in cell cycle and ectopic expression of stress genes	Plant Physiology	150(1): 244-256	6.11
19	Liu Weixing, Zhang Zhe, Wan Shiqiang*	Predominant role of water in regulating soil and microbial respiration and their responses to climate change in a semiarid grassland	Global Change Biology	15(1): 184-195	5.88
20	Xia Jianyang, Niu Shuli, Wan Shiqiang*	Response of ecosystem carbon exchange to warming and nitrogen addition during two hydrologically contrasting growing seasons in a temperate steppe	Global Change Biology	15(6): 1544-1556	5.88
21	Chen Shiping*, Lin Guanghui, Huang Jianhui, G. Darrel Jenerette	Dependence of carbon sequestration on the differential responses of ecosystem photosynthesis and respiration to rain pulses in a semiarid steppe	Global Change Biology	15(10): 2450-2461	5.88
22	Zhang Lifang, Yang Haomeng, Cui Suxia, Hu Jia, Wang Jie, Kuang Tingyun, Birgitta Nor-ling, Huang Fang*	Proteomic analysis of plasma membranes of cyanobacterium *Synechocystis* sp. strain PCC 6803 in response to high pH stress	Journal of Proteome Research	8(6): 2892-2902	5.68
23	Qin Guozheng, Meng Xianghong, Wang Qing, Tian Shiping*	Oxidative damage of mitochondrial proteins contributes to fruit senescence: a redox proteomics analysis	Journal of Proteome Research	8(5): 2449-2462	5.68
24	Yang Mingfeng, LiuYujun, Liu Yun, Chen Hui, Chen Fan*, Shen Shihua*	Proteomic analysis of oil mobilization in seed germination and postgermination development of *Jatropha curcas*	Journal of Proteome Research	8(3): 1441-1451	5.68
25	Wang Xuchu, Fan Pengxiang, Song Hong-miao, Chen Xianyang, Li Xiaofang, Li Yinxin*	Comparative proteomic analysis of differ-entially expressed proteins in shoots of *Salicornia europaea* under different salinity	Journal of Proteome Research	8(7): 3331-3345	5.68

26	Wang Qinli, Chen Bo, Liu Peng, Zheng Maozhong, Wang Yuqing, Cui Sujuan, Sun Daye, Fang Xiaohong, Liu Chunming, William J. Lucas, Lin Jinxing*	Calmodulin binds to extracellular sites on the plasma membrane of plant cells and elicits a rise in intracellular calcium concentration	Journal of Biological Chemistry	284(18): 12000-12007	5.52
27	Klundt Tim, Bocola Marco, Luetge Maren, Beuerle Till,Liu Benye*, Beerhues Ludger*	A single amino acid substitution converts benzophenone synthase into phenylpyrone synthase	Journal of Biological Chemistry	284(45): 30957-30964	5.52
28	Lu Yingqing*, Du Jin, Tang Jingyu, Wang Fang, Zhang Jie , Huang Jinxia, Liang Weifeng, Wang Liangsheng	Environmental regulation of floral anthocyanin synthesis in *Ipomoea purpurea*	Molecular Ecology	18(18): 3857-3871	5.33
29	Tian Qiuying, Sun Pei, Zhang Wenhao*	Ethylene is involved in nitrate-dependent root growth and branching in *Arabidopsis thaliana*	New Phytologist	184(4): 918-931	5.18
30	Zhang Linbin, Zhu Qihui, Wu Zhiqiang, Jeffrey Ross-Ibarra, Brandon S. Gaut, Ge Song*, Sang Tao	Selection on grain shattering genes and rates of rice domestication	New Phytologist	184(3): 708-720	5.18
31	Wang Yuhua, Chen Tong, Zhang Chunyang, Hao Huaiqing, Liu, Peng Zheng Maozhong, Baluška František, Šama Jozef,Lin Jinxing*	Nitric oxide modulates the influx of extracellular Ca^{2+} and actin filament organization during cell wall construction in *Pinus bungeana* pollen tubes.	New Phytologist	182: 851-862.	5.18
32	▲Pierre Legendre*, Mi Xiangcheng, Ren Haibao, Ma Keping, Yu Mingjian , Sun Ifang, He Fangliang	Partitioning beta diversity in a subtropical broad-leaved forest of China	Ecology	90(3): 663-674	4.87
33	▲Shen Guochun, Yu Mingjian*, Hu Xinsheng, Mi Xiangcheng, Ren Haibao,Sun Ifang, Ma Keping	Species-area relationships explained by the joint effects of dispersal limitation and habitat heterogeneity	Ecology	90(11): 3033-3041	4.87
34	Wan Shiqiang*, Xia Jianyang, Liu Weixing	Photosynthetic overcompensation under nocturnal warming enhances grassland carbon sequestration	Ecology	90(10): 2700-2710	4.87
35	▲Huang Shuangquan*, Lu Yang, Chen Yingzhuo, Luo Yibo, Lynda F.Delph	Parthenogenesis maintains male sterility in a gynodioecious orchid	The American Naturalist	174(4): 578-584	4.67
36	▲Wang Xiaoqin, Yang Pingfang, Liu Zheng, XuYinong, Kuang Tingyun, Shen Shihua*, He Yikun	Proteomic analysis of the cold stress response in the moss, *Physcomitrella patens*	Proteomics	9(19): 4529-4538	4.59
37	Qin Guozheng, Wang Qing, Liu Jia, Li Boqiang, Tian Shiping*	Proteomic analysis of changes in mitochondrial protein expression during fruit senescence	Proteomics	9(17): 4241-4253	4.59
38	Li Dan, Wang Lei, Wang Min, Xu Yunyuan, Luo Wei, Liu Yaju, Xu Zhihong, Jia Li, Chong Kang*	Engineering OsBAK1 gene as a molecular tool to improve rice architecture for high yield	Plant Biotechnology Journal	7(8): 791-806	4.42
39	Chen Guoke, Marc KÉRy, Zhang Jinlong , Ma Keping*	Factors affecting detection probability in plant distribution studies	Journal of Ecology	97: 1383-1389	4.26
40	▲Jiang Lin*, Wan Shiqiang, Li Linghao	Species diversity and productivity: why do results of diversity-manipulation experiments differ from natural patterns	Journal of Ecology	97(4): 603-608	4.26
41	Cheng Weixin*,Chen Quansheng, Xu Yuqing, Han Xingguo, Li Linghao	Climate and ecosystem ^{15}N natural abundance along a transect of Inner Mongolian grasslands: contrasting regional patterns and global patterns	Global Biogeochemical Cycles	23: 1-11	4.09
42	Song Chunfeng, Lin Qibing, Liang Ronghua, Wang Yinzheng*	Expressions of ECE-CYC2 clade genes relating to abortion of both dorsal and ventral stamens in *Opithandra* (Gesneriaceae)	BMC Evolutionary Biology	9(244): 1-12	4.05
43	Wang Baosheng, Ding Zhuoya, Liu Wei, Pan Jin, Li Changbao, Ge Song, Zhang Daming*	Polyploid evolution in *Oryza officinalis* complex of the genus *Oryza*	BMC Evolutionary Biology	9(1): 1-13	4.05
44	Yang Yanhua, Zhang Fumin, Ge Song*	Evolutionary rate patterns of the gibberellin pathway genes	BMC Evolutionary Biology	9(1):206	4.05
45	Xu Zhenzhu, Zhou Guangsheng*, Hideyuki Shimizu	Are plant growth and photosynthesis limited by pre-drought following rewatering in grass?	Journal of Experimental Botany	60(13): 3737-3749	4.00
46	Ma Qinghu*	The expression of caffeic acid 3-O-methyltransferase in two wheat genotypes differing in lodging resistance	Journal of Experimental Botany	60(9): 2763-2771	4.00
47	Wang Weiqing, Song Songquan, Li Shaohua, Gan Yangying, Wu Jinhua, Cheng Hongyan*	Quantitative description of the effect of stratification on dormancy release of grape seeds in response to various temperatures and water content	Journal of Experimental Botany	60(12): 3397-3406	4.00
48	Zhang Jingyu, Xu Yunyuan, Huan Qing Chong Kang*	Deep sequencing of *Brachypodium* small RNAs at the global genome	BMC Genomics	10(1): 449-465	3.93
49	▲Jing Haichun *, Carlos Bayon, Kostya Kanyuka, Simon Berry	DArT markers: diversity analyses, genomes comparison, mapping and integration with SSR markers in *Triticum monococcum*	BMC Genomics	10(10): 458-474	3.93
50	Zhang Mingli, Peter W. Fritsch*, Boni C. Cruz	Phylogeny of *Caragana* (Fabaceae) based on DNA sequence data from rbcL, trnS-trnG, and ITS	Molecular Phylogenetics and Evolution	50(3): 547-559	3.87
51	▲S.M.D. Aagaard*, Johann Greilhuber, Zhang Xianchun, Niklas Wikström	Occurrence and evolutionary origins of polyploids in the clubmoss genus *Diphasiastrum* (Lycopodiaceae)	Molecular Phylogenetics and Evolution	52(2): 746-754	3.87
52	▲Li Zhe, Zhang He, Ge Song, Gu Xiaocheng, Gao Ge, Luo Jingchu	Expression pattern divergence of duplicated genes in rice	BMC Bioinformatics	10(6): 1-9	3.78
53	Yang Ruizhen, Wei Xiaolei, Gao Fenfang, Wang Liangsheng*, Zhang, Huijin, Xu Yanjun, Li Chonghui, Ge Yuxuan, Zhang Jingjing, Zhang Jie	Simultaneous analysis of anthocyanins and flavonols in petals of lotus (*Nelumbo*) cultivars by high-performance liquid chromatography-photodiode array detection/electrospray ionization mass spectrometry	Journal of Chromatography A	1216(1): 106-112	3.76

54	Chen Shiping*, Chen Jiquan, Lin Guanghui, Zhang Wenli, Miao Haixia, Wei Long	Energy balance and partition in Inner Mongolia steppe ecosystems with different land use types	Agricultural and Forest Meteorology	149(10): 1800-1809	3.67
55	Miao Haixia, Chen Shiping, Chen Jiquan, Zhang Wenli, Zhang Ping，Wei Long, Han Xingguo, Lin Guanghui*	Cultivation and grazing altered evapotranspiration and dynamics in Inner Mongolia steppes	Agricultural and Forest Meteorology	149(10): 1810-1819	3.67
56	Huang Baoqiang, Sun Yangna, Yu Xiaohong, Luo Yibo*, Michael J. Hutchings, Tang Siyuan	Impact of proximity to a pathway on orchid pollination success in Huanglong National Park, South-West China	Biological Conservation	142(4): 701-708	3.57
57	Ding Shunhua, Lu Qingtao, Zhang Yan, Yang Zhipan, Wen Xiaogang, Zhang Lixin, Lu Congming*	Enhanced sensitivity to oxidative stress in transgenic tobacco plants with decreased glutathione reductase activity leads to a decrease in ascorbate pool and ascorbate redox state	Plant Molecular Biology	69(3): 577-599	3.54
58	Zhu Yan, Wang Zhi, Jing Yanjun； Wang Lili, Liu Xia, Liu Yongxiu, Deng Xin*	Ectopic over-expression of BhHsf1, a heat shock factor from the resurrection plant *Boea hygrometrica*, leads to increased thermotolerance and retarded growth in transgenic *Arabidopsis* and tobacco	Plant Molecular Biology	71(5): 451-467	3.54
59	Wang Qing, Lai Tongfei, Qin Guozheng, Tian Shiping*	Response of Jujube fruits to exogenous oxalic acid treatment based on proteomic analysis	Plant and Cell Physiology	50(2): 230-242	3.54
60	Ma Dongming, Pu Gaobin, Lei Caiyan, Ma Lanqing, Wang Huahong, Guo Yanwu, Chen Jianlin, Du Zhigao, Wang Hong, Li Guofeng, Ye Hechun, Liu Benye*	Isolation and characterization of AaWRKY1, an *Artemisia annua* transcription factor that regulates the amorpha-4,11-diene synthase gene, a key gene of artemisinin biosynthesis	Plant and Cell Physiology	50(12): 2146-2161	3.54
61	Fan Pengxiang, Qin Xuchu,Kuang Tingyun, Li Yinxin*	An efficient method for extraction of chloroplast protein compatible for 2-DE and MS analysis	Electrophoresis	30(1): 3024-3033	3.51
62	▲Wang L, Hao L, Li X, Hu S, Ge Song , Yu J*	SNP deserts of Asian cultivated rice: genomic regions under domestication	Journal of Evolutionary Biology	22(4): 751-761	3.47
63	Mao Jianfeng, Li Yue, Wang Xiaoru*	Empirical assessment of the reproductive fitness components of the hybrid pine *Pinus densata* on the Tibetan Plateau	Evolutionary Ecology	23(3): 447-462	3.45
64	Xia Jianyang, Han Y. , Zhang Z., Zhang Z, Wan Shiqiang*	Effects of diurnal warming on soil respiration are not equal to the summed effects of day and night warming in a temperate steppe	Biogeosciences	6(1): 1361-1370	3.45
65	Wang Zhiping*, J. Gulledge, Zheng Jianqiu, Liu Wei, Li Linghao, Han Xingguo	Physical injury stimulates aerobic methane emissions from terrestrial plants	Biogeosciences	6(1): 615-621	3.45
66	▲Auerswald K. *, Wittmer M. H. O. M., T. T. M ¨ annel, Bai Yongfei, Sch ¨ aufele R, Schnyder H.	Large regional-scale variation in C_3/C_4 distribution pattern of Inner Mongolia steppe is revealed by grazer wool carbon isotope Inner Mongolia steppe is revealed by grazer wool carbon isotope composition	Biogeosciences	6(5): 795-805	3.45
67	Niu Shuli, Yang Haijun, Zhang Zhe, Wu Mingyu, Lu Qi, Li Linghao, Han Xingguo, Wan Shiqiang	Non-additive effects of water and nitrogen addition on ecosystem carbon exchange in a temperate steppe	Ecosystems	12(6): 915-926	3.38
68	Yao Yifeng, Subir Bera, David K. Ferguson, Volker Mosbrugger, Khum N. Paudayal, Jin Jianhua*, Li Chengsen*	Reconstruction of paleovegetation and paleoclimate in the Early and Middle Eocene, Hainan Island, China	Climatic Change	92(1-2): 169-189	3.20
69	Chen Shuangyan, Li Xiuqing, Zhao Aiguo, Wang Lijuan, Li Xiaofeng, Shi Qingyun, Chen Ming, Guo Juan, Zhang Jichong, Qi Dongmei, Liu Gongshe*	Genes and pathways induced in early response to defoliation in rice seedlings	Current Issues in Molecular Biology	11(2): 81-100	3.18
70	Wang Zhi, Zhu Yan, Wang Lili, Liu Xia, Liu Yongxiu, Jonathan Phillips, Deng Xin*	A WRKY transcription factor participates in dehydration tolerance in *Boea hygrometrica* by binding to the W-box elements of the galactinol synthase *(BhGolS1)* promoter	Planta	230(6): 1155-1166	3.09
71	Song Hongmiao, Zhao Rongmin*, Fan Pengxiang, Wang Xuchu, Chen Xianyang, Li Yinxin*	Overexpression of AtHsp90.2, AtHsp90.5 and AtHsp90.7 in *Arabidopsis thaliana* enhances plant sensitivity to salt and drought stresses	Planta	229(4): 955-964	3.09
72	Ma Lanqing, Pang Xiaobin, Shen Haiyan, Pu Gaobin, Wang Huahong, Lei Caiyan, Wang Hong, Li Guofeng, Liu Benye*, Ye Hechun*	A novel type III polyketide synthase encoded by a three-intron gene from *Polygonum cuspidatum*	Planta	229(3): 457-469	3.09
73	Ma Lanqing, Guo Yanwu, Gao Dongyao, Ma Dongming, Li Guofeng, Liu Benye, Wang Hong,Ye Hechun*	Identification of a *Polygonum cuspidatum* three-intron gene encoding a type III polyketide synthase producing both naringenin and p-hydroxybenzalacetone	Planta	229(5): 1077-1086	3.09
74	▲Peng Zhiyu, Zhang Huiyong, Liu Tingting, Katherine M. Dzikiewicz, Li Songgang, Wang Xiangfeng, Hu Guocheng, Zhu Zhengge, Wei Xinghua, Zhu Qihui, Sun Zongxiu, Ge Song, Ma Ligeng, Li Lei, Deng Xingwang*	Characterization of the genome expression trends in the heading-stage panicle of six rice lineages	Genomics	93(2): 169-178	3.08
75	He Weiming, Feng Yulong,Wendy M. Ridenour, Giles C. Thelen, Jarrod L. Pollock, Alecu Diaconu, Ragan M. Callaway*	Novel weapons and invasion: biogeographic differences in the competitive effects of *Centaurea maculosa* and its root exudate (±)-catechin	Oecologia	159(3): 803-815	3.01
76	▲Rao Feng, Wang Weiming*, Li Zhenqing	Spatiotemporal complexity of a predator–prey system with the effect of noise and external forcing	Chaos, Solitons and Fractal	41(4): 1634-1644	2.98
77	▲Li Lin, Huang Zhongliang*, Ye Wanhui, Cao Honglin, Wei Shiguang , Wang Zhigao, Lian Juyu, Sun Ifang, Ma Keping, He Fangliang	Spatial distributions of tree species in a subtropical forest of China	Oikos	118: 495-502	2.97

78	Zhang Yun*, Kong Zhaochen, Yan Shun, Yang Zhenjing, Ni Jian*	"Medieval Warm Period"on the northern slope of central Tianshan Mountains, Xinjiang, NW China	Geophysical Research Letters	36(L11702) :1-5	2.96
79	Jia Bingrui, Zhou Guangsheng*	Integrated diurnal soil respiration model during growing season of a typical temperate steppe: Effects of temperature, soil water content and biomass production	Soil Biology & Biochemistry	41: 681-686	2.93
80	Zhou Lishi, Huang Jianhui, Lv Fumei, Han Xingguo*	Effects of prescribed burning and seasonal and interannual climate variation on nitrogen mineralization in a typical steppe in Inner Mongolia	Soil Biology & Biochemistry	41(4): 796-803	2.93
81	▲Liu Chunyan, Jirko Holst, Yao Zhisheng, Nicolas Bruggemann, Klaus Butterbach-Bahl, Han Shenghui, Han Xingguo, Bart Tas, Andreas Susenbeth, Zheng Xunhua *	Growing season methane budget of an Inner Mongolian steppe	Atmospheric Environment	43(19): 3086-3095	2.89
82	Wang Zhiping, Song Yang, Jay Gulledge, Yu Qiang, Liu Hongsheng, Han Xingguo*	China's grazed temperate grasslands are a net source of atmospheric methane	Atmospheric Environment	43(13): 2148-2153	2.89
83	▲Anne Schiborra*, Martin Gierus, Wan Hongwei, Bai Yongfei, Friedhelm Taube	Short-term responses of a *Stipa grandis*/*Leymus chinensis* community to frequent defoliation in the semi-arid grasslands of Inner Mongolia, China	Agriculture Ecosystems & Environment	132(1-2): 82-90	2.88
84	Chen Liang, Wang Renzhong*	Anatomical and physiological divergences and compensatory effects in two *Leymus chinensis* (Poaceae) ecotypes in Northeast China	Agriculture, Ecosystems & Environment	134(1): 45-52	2.88
85	▲Liu Chunyan, Jirko Holst, Yao Zhisheng, Nicolas Bruggemann, Klaus Butterbach-Bahl, Han Shenghui, Han Xingguo, Zheng Xunhua*	Sheepfolds as "hotspots" of nitric oxide (NO) emission in an Inner Mongolian steppe	Agriculture, Ecosystems & Environment	134 (1-2): 136-142	2.88
86	D.K.Biswas, Xu Hong, Yang Jingcheng, Li Yonggeng*, Chen Shiping, Jiang Chuangdao, Li Weidong, Ma Keping, S.K.Adhikary, Wang Xianzhong, Jiang Gaoming*, D.K.Biswas	Impacts of methods and sites of plant breeding on ozone sensitivity in winter wheat cultivars	Agriculture, Ecosystems & Environment	134(3-4): 168-177	2.88
87	Ji Shengjun, Geng Yan , Li Defeng, Wang Guohong*	Plant coverage is more important than species richness in enhancing aboveground biomass in a premature grassland, northern China	Agriculture, Ecosystems & Environment	129(4): 491-496	2.88
88	▲Li Junmin, Dong Ming*	Fine-scale clonal structure and diversity of incasive plant *Mikania micrantha* HBK and its plant parasity *Cuscuta campestris* Yunker	Biological Invasions	11(11): 687-695	2.79
89	Yu Hua, He Weiming*, Liu Jian, Miao Shili, Dong Ming*	Native *Cuscuta campestris* restrains exotic *Mikania micrantha* and enhances soil resources beneficial to natives in the invaded communities	Biological Invasions	11(5): 835-844	2.79
90	▲Wang Huafeng , Cynthia Ross Friedman*, Zhu Zhixin, Qin Haining	Early reproductive developmental anatomy in *Decaisnea* (Lardizabalaceae) and its systematic implications	Annals of Botany	104(6): 1243-1253	2.76
91	Du Juan, Yu Feihai*, Peter Alpert, Dong Ming*	Arbuscular mycorrhizal fungi reduce effects of physiological integration in *Trifolium repens*	Annals of Botany	104: 335-343	2.76
92	▲Bateman R. M*., James K. E., Luo Yibo, Lauri R. K., FÜLcher T., Cribb P. J., Chase M. W.	Molecualr phylogenetics and morphological reappraisal of the *Platanthera* clade (Orchidaceae: Orchidinae) prompts expansion of the generic limits of *Galearis* and *Platanthera*	Annals of Botany	104(3): 431-446	2.76
93	Meng Tingting*, Ni Jian*, Sandy P. Harrison	Plant morphometric traits and climate gradients in northern China: a meta-analysis using quadrat and flora data	Annals of Botany	104(6): 1217-1229	2.76
94	Sun Haiqin*, Cheng Jin, Zhang Fumin, Luo Yibo, Ge Song	Reproductive success of non-rewarding *Cypripedium japonicum* benefits from low spatial dispersion pattern and asynchronous flowering	Annals of Botany	103(8): 1227-1237	2.76
95	Zhang Changfeng , Tian Shiping*	Crucial contribution of membrane lipids' unsaturation to acquisition of chilling-tolerance in peach fruit stored at 0℃	Food Chemistry	115(2): 405-411	2.70
96	Meng Xianghong, Han Jin, Wang Qing, Tian Shiping*	Changes in physiology and quality of peach fruits treated by methyl jasmonate under low temperature stress	Food Chemistry	114(3): 1028-1035	2.70
97	Wang Yiju, Yang Chunxiang, Li Shaohua*, Yang Liu, Wang Younian, Zhao Jianbo, Jiang Quan	Volatile characteristics of 50 peaches and nectarines evaluated by HP–SPME with GC–MS	Food Chemistry	116(5): 356-364	2.70
98	Yang Chunxiang, Wang Yiju, Liang Zhenchang, Fan Peige , Wu Benhong, Yang Liu, Wang Younian, Li Shaohua*	Volatiles of grape berries evaluated at the germplasm level by headspace-SPME with GC–MS	Food Chemistry	114(2): 1106-1114	2.70
99	Zhou Feng, Liu Shuang, Hu Zhaohui, Kuang Tingyun , Paulsen Harald,Yang Chunhong*	Effect of monogalactosyldiacylglycerol on the interaction between photosystem II core complex and its antenna complexes in liposomes of thylakoid lipids	Photosynthesis Research	99(3): 185-193	2.68
100	Yu Feihai*, Wang Ning, Peter Alpert, He Weiming, Dong Ming	Physiological integration in an introduced, invasive plant increases its spread into experimental communities and modifies their structure	Americal Journal of Botany	96(11): 1983-1989	2.64
101	▲Leonard B. Thien*, Peter Bernhardt, Margaret S. Devall, Chen Zhiduan, Luo Yibo, Fan Jianhua, Yuan Liangchen, Joseph H. Williams	Pollination biology of basal angiosperms (ANITA grade)	American Journal of Botany	96(1): 166-182	2.64
102	Xia Zhi, Wang Yinzheng*, James F. Smith	Familial placement and relations of *Rehmannia and Triaenophora* (Scrophulariaceae s.l.) inferred from five gene regions	American Journal of Botany	96(2): 519-530	2.64

103	Li Chonghui, Du Hui, Wang Liangsheng*, Shu Qingyan, Zheng Yuanrun, Xu Yanjun, Zhang Jingjing, Zhang Jie, Yang Ruizhen , Ge-Yuxuan	flavonoid composition and antioxidant activity of tree peony (*Paeonia* Section *Moutan*) yellow flowers	Journal of Agricultural and Food Chemistry	57(18): 8496-8503	2.56
104	Chen Qian, Qi Wenbo, Reiter Rj, Wei Wei*, Wang Baomin	Exogenously applied melatonin stimulates root growth and raises endogenous indoleacetic acid in roots of etiolated seedlings of *Brassica juncea*	Journal of Plant Physiology	2009(166): 324-328	2.44
105	Zhao Mingui, Liu Ruojing, Chen Lei , Tian Qiuying , Zhang Wenhao*	Glucose-induced inhibition of seed germination in Lotus japonicus is alleviated by nitric oxide and spermine.	Journal of Plant Physiology	166(5): 213-218	2.44
106	Zhou Jing, Lia Fei, Wang Jinlan, Ma Yun, Chong Kang, Xu Yunyuan*	Basic helix-loop-helix transcription factor from wild rice(OrbHLH2) improves tolerance to salt- and osmotic stress in *Arabidopsis*	Journal of Plant Physiology	166: 1296-1306	2.44
107	Li Jinfeng, David K. Ferguson, Yang Jian, Feng Guangping , Albert G. Ablaev, Wang Yufei , Li Chengsen*	Early Miocene vegetation and climate in Weichang District, North China	Paleogeograph, Paleoclimatology, Paleoecology	280(1-2): 47-63	2.41
108	Wang Yanhui*, David K. Ferguson, Feng Guangping, Wang Yufei, Sergey G. Zhilin, Li Chengsen*, Popovatselenkova Svetlana, Yang Jian, Albert G. Ablaev	The Phytogeography of the extinct angiosperm *Nordenskioeldia* (Trochodendraceae) and its response to climate changes	Paleogeography, Paleoclimatology, Paleoecology	280(1-2): 183-192	2.41
109	Xiang Qiaoping, (Jenny) Xiang Qiuyun, Guo Yanyan, Zhang Xianchun*	Phylogeny of *Abies* (Pinaceae) inferred from nrITS sequence data	Taxon	58(1): 141-152	2.36
110	Gao Tiangang*, Wang Wei, Randall J. Bayer, Li Dezhu	Systematic position of the enigmatic genus *Sheareria* (Asteraceae) - evidence from molecular, morphological and cytological data	Taxon	58(3): 769-780	2.36
111	Fan Jie, Qin Haining, Li Dezhu, Jin Xiaohua*	Molecular phylogeny and biogeography of *Holcoglossum* (Orchidaceae: Aeridinae) based on nuclear ITS, and chloroplast trnL-F and matK	Taxon	58(3): 849-861	2.36
112	Mao Shuyan, Jiang Chuangdao*, Zhang Wenhao, Shi Lei*, Zhang Jinzheng , Wah Soonchow, Yang Jingcheng	Water translocation between ramets of strawberry during soil drying and its effects on photosynthetic performance	Physiologia Plantarum	137: 225-234	2.33
113	Shu Qingyan, Wischnitzki Elisabeth, Liu Zheng'an, Ren Hongxu, Han Xiaoyan, Hao Qing, Gao Fengfang , Xu Suxia, Wang Li-angsheng*	Functional annotation of expressed sequence tags as a tool to understand the molecular mechanism controlling flower bud development in tree peony	Physiologia Plantarum	135(4): 436-449	2.33
114	Zhou Li, Zhou Guangsheng*	Measurement and modelling of evapotranspiration over a reed (*Phrag-mites australis)* marsh in Northeast China	Journal of Hydrology	372:41-47	2.31
115	Li Yansu, Miao Xiatao, Tian Qiuying, Li Ling-hao, Zhang Wenhao*	Phosphorus deficiency-induced reduction in root hydraulic conductivity *Medicago falcata* is associated with ethylene production	Evironemtal and Experimental Botany	67(4): 172-177	2.30
116	Wang Lijun, Wayne Loescher, Duan Wei, Li Weidong, Yang Shuhua, Li Shaohua*	Heat acclimation induced acquired heat tolerance and cross adaptation in different grape cultivars: relationships to photosynthetic energy partitioning	Functional Plant Biology	36(3): 516-526	2.25
117	▲Pan Xinglai, Jiang Qiyan, Pan Qianying, Wen Xuefei, Shi Yinhong, Wang Yongjie, Pan Tianyuan*, Xie Sangang, Zhang Guiyun, Wu Shenjie, Chai Yongfeng, Zhang Chang-sheng,Wu Zongxin, Shen Shihua*	Proteomic analysis of 'hybrid necrosis' in wheat (*Triticum aestivum*) leaves	Functional Plant Biology	36(3): 251-259	2.25
118	Li Weidong, Dilip K. Biswas, Xu Hong, Xu Changqing, Wang Xianzhong, Liu Jiakun, Jiang Gaoming*	Photosynthetic responses to chromosome doubling in relation to leaf anatomy in *Lonicera japonica* subjected to water stress	Functional Plant Biology	36(4): 783-792	2.25
119	Wang Qibing*, Zhang Lei, Li Linghao, Bai Yongfei, Cao Jirong, Han Xingguo	Changes in carbon and nitrogen of Chernozem soil along a cultivation chronosequence in a semi-arid grassland	European Journal of Soil Science	60(6): 916-923	2.24
120	Du Yanjun, Mi Xiangcheng, Liu Xiaojuan, Chen Lei, Ma Keping*	Seed dispersal phenology and dispersal syndromes in a subtropical broad-leaved forest of China	Forest Ecology and Management	258: 1147-1152	2.11
121	He Nianpeng*, Wu Ling, Wang Yuesi, Han Xingguo	Changes in carbon and nitrogen in soil particle-size fractions along a grassland restoration chronosequence in northern China	Geoderma	150(2): 302-308	2.07
122	Di Kun, C Neal Stewart Jr, Wei Wei*, Shen Baocheng, Tang Zhixi, Ma Keping	Fitness and maternal effects in hybrids formed between transgenic oilseed rape (*Brassica napus* L.) and wild brown mustard [*B. juncea* (L.) Czern et Coss.] in the field	Pest Management Science	2009(65): 753-760	2.04
123	Lai Jiangshan, Mi Xiangcheng, Ren Haibao, Ma Keping*	Species-habitat associations change in a subtropical forest of China	Journal of Vegetation Science	20: 415-423	2.04
124	Li Yijun, Zhou Li, Xu Zhenzhu, Zhou Guang-sheng*	Comparison of water vapor, heat and energy exchanges over agricultural and wetland ecosystems	Hydrological Processes	23: 2069-2080	2.00

注：表中为植物所为第一作者单位或通讯作者单位发表的 IF≥2 的 JCR 领域 TOP 30%期刊论文

▲：植物所非第一完成单位的文章

* ：文章通讯作者。

2009年植物研究所科技成果获奖情况

成果名称	获 奖 人 员	奖 项 名 称	申报单位
《中国植物志》的编研	钱崇澍、陈焕镛、吴征镒、王文采、李锡文、胡启明、陈艺林、陈心启、崔鸿宾、张宏达	国家自然科学一等奖	第一完成单位

2009年植物研究所获得专利授权情况

专利名称	专利号	授权日期	专利类型	发明人
植物胚乳特异性启动子及其应用	ZL200710098626	2009.11.25	发明专利	曲乐庆 宋艳茹
一种提高植物抗逆性的方法	ZL200610164982.3	2009.03.04	发明专利	李银心 周树峰
拟南芥的培养方法	ZL200610089094.X	2009.07.22	发明专利	林金星 滕年军 汪玉清 侯桂玲
一种植物抗逆性相关蛋白及其编码基因与应用	ZL200610088889.9	2009.11.25	发明专利	李银心 韩和平
一种提高羊草愈伤组织分化率的方法及其专用培养基	ZL200610078404.8	2009.06.03	发明专利	刘公社 李晓峰 苏蔓 齐冬梅
大车前的一种体外培养方法	ZL200510072327	2009.06.10	发明专利	李银心 李平
一种治理紫荆泽兰入侵及控制其蔓延的方法	ZL200410048094.6	2009.07.15	发明专利	高贤明
一种获得转基因羊草的方法	ZL200410046142.8	2009.06.10	发明专利	刘公社
裸子植物花粉的离体培养方法及其专用培养基	ZL200610012083.1	2009.01.28	发明专利	林金星 田翠婷 吕洪飞
水稻叶夹角相关基因及其编码蛋白与应用	ZL200410078137.5	2009.03.04	发明专利	种 康 王雷 庄晓蕾 薛勇彪 许智宏
植物抗逆相关蛋白及其编码基因与应用	ZL200610088924.7	2008.12.24	发明专利	李银心 韩和平
小麦高光效和抗逆相关的苹果酸脱氢酶、其编码基因及培育抗逆植物的方法	200410005919.6	2009.02.05	发明专利	马庆虎
一种考马斯亮蓝染色法及其专用凝胶固定液和染色剂	ZL200610089093.5	2009.12.23	发明专利	李银心 王旭初
片材(壶瓶枣包装袋)	ZL200930125878.8	2009.12.30	外观专利	田世平 徐勇 秦国政 李博强

2009年植物研究所出版专著

著作名称	主编	出版社
《中国高等植物》第12卷	林祁、傅立国	青岛出版社
中国化石植物志(第一卷)：中国煤核植物	崔金钟	高等教育出版社
浙江古田山森林—树种及其分布格局	马克平	中国林业出版社
逆境植物细胞生物学	简令成、王红	科学出版社
高黎贡山原生兰科植物	金效华、赵晓东、施晓春	科学出版社

2009年植物研究所获批的国家自然科学基金项目(不含面上)

批准号	负责人	项目类型	项目名称	合同经费(万)	起止时间
30821062	韩兴国	基金创新群体	北方草地全球变化生态学研究	450	2009.01—2011.12
30990242	葛 颂	基金重大	与禾本科适应性辐射相关的基因家族的起源和适应性进化	1000	2010.01—2013.12
30930010	洪德元	基金重点	芍药科基于基因组学的系统发育和进化研究	185	2010.01—2013.12
30925009	万师强	杰出青年基金	全球变化与陆地生态系统	200	2010.01—2013.12

2009年植物研究所获批的国家重大专项

批准号	负责人	项目类型	项目(课题)名称	合同经费(万)	起止时间
nycytx-31-3-3	李绍华	农业产业技术体系建设专项	国家桃产业技术体系建设专项	280	2009.01-2013.12
2009GB24910536	范培格	农业科技成果转化资金项目	高抗寒抗病酿酒葡萄新品种产业化生产示范与推广	60	2009.06-2011.06

2009年植物研究所获批的中科院创新项目

批准号	负责人	项目类型	项目(课题)名称	合同经费(万)	起止时间
KSCX2-YW-G-067	景海春	项目百人	甜高粱耐盐碱育种新材料的培育	200	2009.01-2011.12
KSCX2-YW-N-073	乐　捷	项目百人	植物表皮发育和调控	200	2009.01-2011.12
KZCX2-YW-Q1-06	万师强	院方向性项目	中国草地生态系统固碳潜力及其增汇措施	350	2009.01-2011.12
KGCX2-YW-375	杨春虹	院方向性项目	生物太阳能电池的研制	230	2009.07-2010.12
KGCX2-YW-373	黄　芳	院方向性项目	微藻光合放氢的生物学基础及调控途径	230	2009.07-2010.12
KGCX2-YW-1022	张齐兵	院方向性项目	生物多样性对气候变化的响应与适应	200	2009.10-2010.12
KSCX2-YW-G-061	黄　芳	院方向性项目	基于光合作用原理的微藻水光解制氢研究	150	2009.01-2011.12
KSCX2-SW-122	洪德元	院方向性项目	Flora of China(《中国植物志》英文修订版)编研与出版	100	2009.01-2012.12

2009年植物研究所获批的重要国际合作项目

课题名称	主持人	合作单位	经费来源	总经费	起止时间
森林生物多样性和气候对生态系统碳通量的影响	马克平	瑞士苏黎世大学环境科学学院	中国科学院	70万人民币 瑞士方70万欧元	2009.01-2011.12
克隆生活史性状在植物入侵中的作用	于飞海	瑞士伯尔尼大学	中国科学院	50万人民币 瑞士方50万欧元	2009.01-2011.12
不同人为干扰梯度下气候变化对亚热带森林碳库及碳通量影响的研究	马克平	地球观察研究所	地球观察研究所	379万人民币	2009.01-2010.12
五千五百万年前古新世-始新世暖期中国哺乳动物的起源和古环境演化	李承森	比利时皇家自然科学研究所	科技部	96万人民币	2009.01-2011.12
气候对森林的生物多样性影响的研究	马克平	斯密苏尼热带森林研究所	斯密苏尼热带森林研究所	72万人民币	2009.01-2009.12
中国和奥地利合成生物学生物安全和风险评价的合作研究	魏　伟	奥地利国际冲突与对话管理组织	国家自然科学基金委员会	40万人民币	2009.01-2011.12