

## 九、附录

### 2011 年植物研究所发表重要论文

序号	全部作者	论文题目	刊物名称	卷期号	IF
1	Ge Sun*, Dilcher D.L.*, Wang Hongshan, Chen Zhiduan	▲ A eudicot from the early Cretaceous of China	Nature	471(7340): 624-627	36.101
2	Pan Yude*, Richard A. Birdsey, Fang Jingyun, Richard Houghton, Pekka E. Kauppi, Werner A. Kurz, Oliver L. Phillips, Anatoly Shvidenko, Simon L. Lewis, Josep G. Canadell, Philippe Ciais, Robert B. Jackson, Stephen W. Pacala, A. David McGuire, Piao Shilong, Aapo Rautiainen, Stephen Sitch, Daniel Hayes	▲ A large and persistent carbon sink in the world's forests	Science	333(6045): 988-993	31.364
3	Li Gang, Hamadi Siddiqui, Teng Yibo, Lin Rongcheng, Wan Xiangyuan, Li Jigang, Lau OnSun, Ouyang Xinhao, Dai Mingqiu, Wan Jianmin, Paul F. Devlin, Deng Xingwang, Wang Haiyang*	▲ Coordinated transcriptional regulation underlying the circadian clock in <i>Arabidopsis</i>	Nature Cell Biology	13(5): 616-622	19.407
4	Ge Song*, Sang Tao	Inappropriate model rejects independent domestications of <i>indica</i> and <i>japonica</i> rice	PNAS	108(39): e755	9.771
5	China Plant BOL Group, Li Dezhu*, Gao Lianming, Li Hongtao, Wang Hong, Ge Xuejun, Liu Jianquan, Chen Zhiduan, Zhou Shiliang, Chen Shilin, Yang Junbo, Fu Chengxin, Zeng Chunxia, Yan Haifei, Zhu Yingjie, Sun Yongshuai, Chen Siyun, Zhao Lei, Wang Kun, Yang Tuo, Duan Guangwen	▲ Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants	PNAS	108(49): 19641-19646	9.771
6	Martijn van Zanten, Maria A. Koini, Regina Geyer, Yongxiu Liu, Vittoria Brambilla, Dorothea Bartels, Maarten Koornneef*, Paul Fransz, and Wim J.J. Soppe*	▲ Seed maturation in <i>Arabidopsis thaliana</i> is characterized by nuclear size reduction and increased chromatin condensation	PNAS	108(50): 20219-20224	9.771
7	Li Juan, Jiang Jiafu, Qian Qian, Xu Yunyuan, Zhang Cui, Xiao Jun, Du Cheng, Luo Wei, Zou Guoxing, Chen Mingluan, Huang Yunqing, Feng Yuqi, Cheng Zhukuan, Yuan Ming, Chong Kang*	Mutation of Rice <i>BC12/GDD1</i> , Which Encodes a Kinesin-Like Protein That Binds to a GA Biosynthesis Gene Promoter, Leads to Dwarfism with Impaired Cell Elongation	The Plant Cell	23(2): 628-640	9.396
8	Yang Weibing, Ren Sulin, Zhang Xiaoming, Gao Mingjun, Ye Shenghai, Qi Yongbin, Zheng Yiyan, Wang Juan, Zeng Longjun, Li Qun, Huang Shanjin*, He Zuhua*	▲ <i>BENT UPPERMOST INTERNODE1</i> Encodes the Class II Formin FH5 Crucial for Actin Organization and Rice Development	The Plant Cell	23(2): 661-680	9.396
9	Zhao Yang, Zhao Shuangshuang, Mao Tonglin, Qu Xiaolu, Cao Wanhong, Zhang Li, Zhang Wei, He Liu, Li Sidi, Ren Sulin, Zhao Jinfeng, Zhu Guoli, Huang Shanjin, Ye Keqiong, Yuan Ming, Guo Yan*	▲ The Plant-Specific Actin Binding Protein SCAB1 Stabilizes Actin Filaments and Regulates Stomatal Movement in <i>Arabidopsis</i>	The Plant Cell	23(6): 2314-2330	9.396
10	Ouyang Xinhao, Li Jigang, Li Gang, Li Bosheng, Chen Beibei, Shen Huaishun, Huang Xi, Mo Xiaorong, Wan Xiangyuan, Lin Rongcheng, Li Shigui, Wang Haiyang, Deng Xingwang*	▲ Genome-Wide Binding Site Analysis of FAR-RED ELONGATED HYPOCOTYL3 Reveals Its Novel Function in <i>Arabidopsis</i> Development	The Plant Cell	23(7): 2514-2535	9.396
11	Li Xiaojuan, Wang Xiaohua, Yang Yong, Li Ruili, He Qihua, Fang Xiaohong, Doan-Trung Luu, Christophe Maurel, Lin Jinxing*	Single-Molecule Analysis of PIP2;1 Dynamics and Partitioning Reveals Multiple Modes of <i>Arabidopsis</i> Plasma Membrane Aquaporin Regulation	The Plant Cell	23(10): 3780-3797	9.396
12	Pei Lei*, Markus Schmidt, Wei Wei	▲ Synthetic biology: An emerging research field in China	Biotechnology Advances	29(6): 804-814	7.6
13	Zheng Leiying, Guo Xiaosen, He Bing, Sun Lianjun, Peng Yao, Dong Shan-shan, Liu Tengfei, Jiang Shuye, Srinivasan Ramachandran, Liu Chunming, Jing Haichun*	Genome-wide patterns of genetic variation in sweet and grain sorghum ( <i>Sorghum bicolor</i> )	Genome Biology	12(11): R114	6.885
14	Wei Liqin, Yan Longfeng, Wang Tai*	Deep sequencing on genome-wide scale reveals the unique composition and expression patterns of microRNAs in developing pollen of <i>Oryza sativa</i>	Genome Biology	12(6): R53	6.885
15	I. Colin Prentice*, Meng Tingting, Wang Han, Sandy P. Harrison, Ni Jian, Wang Guohong	▲ Evidence of a universal scaling relationship for leaf CO <sub>2</sub> drawdown along an aridity gradient	New Phytologist	190(1): 169-180	6.516
16	Feng Guanping, Qin Zhixiang, Yan Jiangzhou, Zhang Xiaoran, Hu Yuxin*	<i>Arabidopsis</i> <i>ORGAN SIZE RELATED1</i> regulates organ growth and final organ size in orchestration with <i>ARGOS</i> and <i>ARL</i>	New Phytologist	191(3): 635-646	6.516
17	Ma Jingkun, Micha Hanssen, Krister Lundgren, La'zaro Hernandez, Thierry Delatte, Andrea Ehlert, Liu Chunming, Henriette Schlupepmann, Wolfgang Droge-Laser, Thomas Moritz, Sjeff Smeekens, Johannes Hanson*	The sucrose-regulated <i>Arabidopsis</i> transcription factor bZIP11 reprograms metabolism and regulates trehalose metabolism	New Phytologist	191(3): 733-745	6.516

18	Bharti Sharma, Guo Chunce, Kong Hongzhi, Elena M. Kramer*	▲ Petal-specific subfunctionalization of an <i>APETALA3</i> paralog in the Ranunculales and its implications for petal evolution	New Phytologist	191(3): 870-883	6.516
19	Wang Baosheng, Mao Jianfeng, Gao Jie, Zhao Wei, Wang Xiaoru*	▲ Colonization of the Tibetan Plateau by the homoploid hybrid pine <i>Pinus densata</i>	Molecular Ecology	20(18): 3796-3811	6.457
20	Zhang Ximei, Liu Wei, Bai Yongfei, Zhang Guangming, Han Xingguo*	Nitrogen deposition mediates the effects and importance of chance in changing biodiversity	Molecular Ecology	20(2): 429-438	6.457
21	Jiang Chuangdao, Wang Xin, Gao Huiyuan, Shi Lei, Chow Wah-Soon*	Systemic regulation of leaf anatomical structure, photosynthetic performance and high light tolerance in sorghum	Plant Physiology	155(3): 1416-1424	6.451
22	Lv Weitao, Lin Bin, Zhang Min, Hua Xuejun*	Proline Accumulation Is Inhibitory to <i>Arabidopsis</i> Seedlings during Heat Stress	Plant Physiology	156(4): 1921-1933	6.451
23	Qin Feng, David K. Ferguson, Reinhard Zetter, Wang Yufei*, Svetlana Syabrya, Li Jinfeng, Yang Jian, Li Chengsen	Late Pliocene vegetation and climate of Zhangcun region, Shanxi, North China	Global Change Biology	17(5): 1850-1870	6.346
24	Yan Liming, Chen Shiping*, Huang Jianhui, Lin Guanghui	Water regulated effects of photosynthetic substrate supply on soil respiration in a semiarid steppe	Global Change Biology	17(5): 1990-2001	6.346
25	Chen Weiwei, Benjamin Wolf, Zheng Xunhua*, Yao Zhisheng, Klaus Butterbach-bahl, Nicolas Bruggemann, Liu Chunyan, Han Shenghui, Han Xingguo	▲ Annual methane uptake by temperate semiarid steppes as regulated by stocking rates, aboveground plant biomass and topsoil air permeability	Global Change Biology	17(9): 2803-2816	6.346
26	Helge Bruelheide*, Martin Bohnke, Sabine Both, Fang Teng, Thorsten Assmann, Martin Baruffol, Jürgen Bauhus, Francois Buscot, Chen Xiaoyong, Ding Bingyang, Walter Durka, Alexandra Erfmeier, Markus Fischer, Christian Geißler, Guo Dali, Guo Liangdong, Werner Hardtle, He Jinsheng, Andy Hector, Wenzel Krober, Peter Kuhn, Anne C. Lang, Karin Nadrowski, Pei Kequan, Micheal Scherer-Lorenzen, Shi Xuezheng, Thomas Scholten, Andreas Schuldt, Stefan Trogisch, Goddert Von Oheimb, Erik Welk, Christian Wirth, Wu Yuting, Yang Xuefei, Zeng Xueqin, Zhang Shouren, Zhou Hongzhang, Ma Keping, Bernhard Schmid	▲ Community assembly during secondary forest succession in a Chinese subtropical forest	Ecological Monographs	81(1): 25-41	5.938
27	Ford-Lloyd BV*, Schmidt M, Armstrong SJ, Barazani O, Engels J, Hadas R, Hammer K, Kell SP, Kang DM, Khoshbakht K, Li YH, Long CL, Lu BR, Ma KP, Nguyen VT, Qiu LJ, Ge S, Wei W, Zhang ZW, Maxted N	▲ Crop Wild Relatives-Undervalued, Underutilized and under Threat?	BioScience	61(7): 559-65	5.51
28	Sang Weiguo*, Ma Keping, Jan C. Axmacher	Securing a Future for China's Wild Plant Resources	BioScience	61(9): 720-725	5.51
29	Li Shouli, Yu Feihai, Marinus J.A. Werger, Dong Ming*, Pieter A. Zuidema	Habitat-specific demography across dune fixation stages in a semi-arid sandland: understanding the expansion, stabilization and decline of a dominant shrub	Journal of Ecology	99(2): 610-620	5.26
30	He Weiming, Peter Alpert*, Yu Feihai, Zhang Lili, Dong Ming	Reciprocal and coincident patchiness of multiple resources differentially affect benefits of clonal integration in two perennial plants	Journal of Ecology	99(5): 1202-1210	5.26
31	Chen Na, Xu Yunyuan, Wang Xin, Du Cheng, Du Jizhou, Yuan Ming, Xu Zhihong, Chong Kang*	<i>OsRAN2</i> , essential for mitosis, enhances cold tolerance in rice by promoting export of intranuclear tubulin and maintaining cell division under cold stress	Plant Cell and Environment	34(1): 52-64	5.145
32	Zhang Yan, Ding Shunhua, Lu Qingtao, Yang Zhipan, Wen Xiaogang, Zhang Lixin, Lu Congming*	Characterization of photosystem II in transgenic tobacco plants with decreased iron superoxide dismutase	Biochimica et Biophysica Acta	1807(4): 391-470	5.132
33	Wang Zhiping*, Xie Zongqiang, Zhang Baocai, Hou Longyu, Zhou Yihua, Li Linghao, Han Xingguo	Aerobic and Anaerobic Nonmicrobial Methane Emissions from Plant Material	Environmental Science & Technology	45(22): 9531-9537	4.825
34	Yang Hao, Karl Auerswald, Bai Yongfei*, Maximilian H.O.M. Wittmer, Hans Schnyder	Variation in carbon isotope discrimination in <i>Cleistogenes squarrosa</i> (Trin.) Keng: patterns and drivers at tiller, local, catchment, and regional scales	Journal of Experimental Botany	62(12): 4143-4152	4.818
35	D. K. Biswas, Jiang Gaoming*	Genetics Reveals an Accumulation of Cyclophilin-Like Protein,	Journal of Experimental Botany	62(12): 4153-4162	4.818
36	Cao Hong, Guo Siyi, Xu Yunyuan, Jiang Kun, Alan M. Jones, Chong Kang*	Reduced expression of a gene encoding a Golgi localized monosaccharide transporter ( <i>OsGMST1</i> ) confers hypersensitivity to salt in rice ( <i>Oryza sativa</i> )	Journal of Experimental Botany	62(13): 4595-4604	4.818
37	Wang Zizhang, Wang Tai*	Dynamic proteomic analysis reveals diurnal homeostasis of key pathways in rice leaves	Proteomics	11(2): 225-238	4.815
38	Fan Pengxiang, Feng Juanjuan, Jiang Ping, Chen Xianyang, Bao Hexigeduleng, Nie Lingling, Jiang Dan, Lv Sulian, Kuang Tingyun, Li Yinxi*	Coordination of Carbon Fixation and Nitrogen Metabolism in <i>Salicornia europaea</i> under Salinity: Comparative Proteomic Analysis on Chloroplast Proteins	Proteomics	11(22): 4346-4367	4.815
39	He Dongli, Han Chao, Yao Jialing, Shen Shihua, Yang Pingfang*	▲ Constructing the metabolic and regulatory pathways in germinating rice seeds through proteomic approach	Proteomics	11(6): 2693-2713	4.815

40	Mao JF, Wang XR*	Distinct niche divergence characterizes the homoploid hybrid speciation of <i>Pinus densata</i> on the Tibetan Plateau	The American Naturalist	177(4): 424-439	4.736
41	He Weiming*, Yu Guolei, Sun Zhenkai	Nitrogen deposition enhances <i>Bromus tectorum</i> invasion: biogeographic differences in growth and competitive ability between China and North America	Ecography	34(6): 1059-1066	4.417
42	Zhang Liang, Zhang Haiyan, Liu Peng, Hao Huaqing, Jin Jingbo, Lin Jinxing*	<i>Arabidopsis</i> R-SNAREs VAMP721 and VAMP722 are required for cell plate formation	PLoS ONE	6(10): e26129	4.411
43	Zhang Lin, Wu Dongxiu*, Shi Huiqiu, Zhang Canjuan, Zhan Xiaoyun, Zhou Shuangxi	Effects of Elevated CO <sub>2</sub> and N Addition on Growth and N <sub>2</sub> Fixation of a Legume Subshrub ( <i>Caragana microphylla</i> Lam.) in Temperate Grassland in China	PLoS ONE	6(10): e26842	4.411
44	Wang Renzhong*, Huang Wenwen, Chen Liang, Ma Linna, Guo Chengyuan, Liu Xiaoqiang	Anatomical and physiological plasticity in <i>Leymus chinensis</i> (Poaceae) along large-scale longitudinal gradient in northeast China	PLoS ONE	6(11): e26209	4.411
45	Zhang Haiyan, Zhang Liang, Gao Bin, Fan Hai, Jin Jingbo, Miguel A. Botella, Jiang Liwen, Lin Jinxing*	Golgi Apparatus-localized Synaptotagmin 2 is Required for Unconventional Trafficking/Secretory Pathway in <i>Arabidopsis</i>	PLoS ONE	6(11): e26477	4.411
46	He Nianpeng*, Han Xingguo, Yu Guirui, Chen Quansheng	▲ Divergent Changes in Plant Community Composition under 3-Decade Grazing Exclusion in Continental Steppe	PLoS ONE	6(11): e26506	4.411
47	Ma Linna, Lv Xiaotao, Liu Yang, Guo Jixun*, Zhang Nanyi, Yang Jianqin, Wang Renzhong*	The effects of warming and nitrogen addition on soil nitrogen cycling in a temperate grassland, northeastern China	PLoS ONE	6(11): e27645	4.411
48	Beaudrot Lydia, Du Yanjun, Rahman Kassim Abdul, Rejmanek Marcel, Harrison Rhett*	▲ Do Epigeal termite mounds increase the diversity of plant habitats in a tropical rain forest in Peninsular Malaysia?	PLoS ONE	6(5): e19777	4.411
49	Pan Qingmin*, Bai Yongfei, Wu Jianguo, Han Xingguo	Hierarchical plant responses and diversity loss after nitrogen addition: Testing three functionally-based hypotheses in the Inner Mongolia grassland	PLoS ONE	6(5): e20078	4.411
50	An Xiaojing, Deng Zhuyun, Wang Tai*	OsSpo11-4, a rice homologue of the archaeal TopVIA protein, mediates double-strand DNA cleavage and interacts with OsTopVIB	PLoS ONE	6(5): e20237	4.411
51	Qin Guozheng*, Liu Jia, Cao Baohua, Li Boqiang, Tian Shiping*	Hydrogen Peroxide Acts on Sensitive Mitochondrial Proteins to Induce Death of a Fungal Pathogen Revealed by Proteomic Analysis	PLoS ONE	6(7): e21945	4.411
52	Liu Yongxiu, Regina Geyer, Martijn van Zanten, Annaick Carles, Li Yong, Anja Horold, Steven van Nocker, Wim J. J. Soppe*	▲ Identification of the <i>Arabidopsis</i> <i>REDUCED DORMANCY 2</i> Gene uncovers a Role for the Polymerase Associated Factor 1 Complex in Seed Dormancy	PLoS ONE	6(7): e22241	4.411
53	He Qiling, Shen Ye, Wang Mingxiu, Huang Minren*, Yang Ruizhen, Zhu Shuijin, Wang Liangsheng*, Xu Yanjun, Wu Rongling*	▲ Natural Variation in Petal Color in <i>Lycoris longituba</i> Revealed by Anthocyanin Components	PLoS ONE	6(8): e22098	4.411
54	Luo Haibo, Ma Ling, Xi Huifeng, Duan Wei, Li Shaohua, Wayne Loescher, Wang Junfang, Wang Lijun*	Photosynthetic responses to heat treatments at different temperature and following recovery in grapevine ( <i>Vitis amurensis</i> L.) leaves	PLoS ONE	6(8): e23033	4.411
55	Li Wei, Wang Xiaoru, Li Yue*	▲ Stability in and Correlation between Factors Influencing Genetic Quality of Seed Lots in Seed Orchard of <i>Pinus tabulaeformis</i> Carr. over a 12-Year Span	PLoS ONE	6(8): e23544	4.411
56	Wang Li, Wu Zhiqiang, Nadia Bystrakova, Stephen W. Ansell, Xiang Qiaoping, Jochen Heinrichs, Harald Schneider*, Zhang Xianchun*	Phylogeography of the Sino-Himalayan Fern <i>Lepisorus clathratus</i> on "The Roof of the World"	PLoS ONE	6(9): 1-11	4.411
57	Yang Xuejun, Zhang Wenhao, Dong Ming, Ivan Boubriak, Huang Zhenying*	The Achene Mucilage Hydrated in Desert Dew Assists Seed Cells in Maintaining DNA Integrity: Adaptive Strategy of Desert Plant <i>Artemisia sphaerocephala</i>	PLoS ONE	6(9): e24346	4.411
58	Zhu Xunzhi, Zhang Jintun, Ma Keping*	Soil biota reduce allelopathic effects of the invasive <i>Eupatorium adenophorum</i>	PLoS ONE	6(9): e25393	4.411
59	Shi Chunming, Valérie Masson Delmotte, Camille Risi, Thomas Eglin, Michel Stevenard, Monique Pierre, Wang Xiaochun, Gao Jing, François-Marie Bréon, Zhang Qibin*, Valérie Daux	Sampling strategy and climatic implications of tree-ring stable isotopes on the southeast Tibetan Plateau	Earth and Planetary Science Letters	301(1-2): 307-316	4.279
60	Jordi Lopez-Pujol*, Zhang Fumin, Sun Haiqin, Ying Tsunshen, Ge Song*	Centres of plant endemism in China: places for survival or for speciation?	Journal of Biogeography	38(7): 1267-1280	4.273
61	Du Hongmei, Liang Yu, Pei Kequan*, Ma Keping	UV Radiation-Responsive Proteins in Rice Leaves: A Proteomic Analysis	Plant and Cell Physiology	52(2): 306-316	4.257
62	Chen Xianyang, Han Heping, Jiang Ping, Nie Lingling, Bao Hexigeduleng, Fan Pengxiang, Lü Sulian, Feng Juanjuan, Li Yinxin*	Transformation of Beta-Lycopene Cyclase Genes from <i>Salicornia europaea</i> and <i>Arabidopsis</i> Conferred Salt Tolerance in <i>Arabidopsis</i> and Tobacco	Plant and Cell Physiology	52(5): 909-921	4.257
63	Wang Tianzuo, Chen Lei, Zhao Mingui, Tian Qiying, Zhang Wenhao*	Identification of drought-responsive microRNAs and their targets in <i>Medicago truncatula</i> by genome-wide high-throughput sequencing	BMC Genomics	12(1): 367	4.206

64	Wang Tianzuo, Chen Lei, Zhao Mingui, Tian Qiuying, Zhang Wenhao*	Identification of drought-responsive microRNAs and their targets in <i>Medicago truncatula</i> by genome-wide high-throughput sequencing	BMC Genomics	12(1): 367	4.206
65	Chen Jiugeng, Zhang Yueqin, Wang Cuiping, Lv Weitao, Jin Jingbo, Hua Xuejun*	Proline induces calcium-mediated oxidative burst and salicylic acid signaling	Amino Acids	40(5):1473-1484	4.106
66	Xu Zhenzhu, Zhou Guangsheng*	Responses of photosynthetic capacity to soil moisture gradient in perennial rhizome grass and perennial bunchgrass	BMC Plant Biology	11(21): 1-11	4.085
67	Li Jihong, Liu Zhongjian, Gerardo A. Salazar, Peter Bernhardt, Holger Perner, Yukawa Tomohisa, Jin Xiaohua, Chung Shihwen, Luo Yibo*	Molecular phylogeny of <i>Cypripedium</i> (Orchidaceae: Cypripedioideae) inferred from multiple nuclear and chloroplast regions	Molecular Phylogenetics and Evolution	61(2): 308-320	3.889
68	Ma Qinghu*, Wang Cui, Zhu Haihao	<i>TaMYB4</i> cloned from wheat regulates lignin biosynthesis through negatively controlling the transcripts of both cinnamyl alcohol dehydrogenase and cinnamoyl-CoA reductase genes	Biochimie	93(7): 1179-1186	3.787
69	Li Zhenyu, Dong Quan*, Thomas P. Albright, Guo Qinfeng	Natural and human dimensions of a quasi-wild species: the case of kudzu	Biological Invasions	13(10): 2167-2179	3.474
70	Zheng Jie, Ding Chenxu, Wang Liangsheng, Li Guoliang, Shi Junyou, Li Hui, Wang Honglun, Suo Yourui*	▲Anthocyanins composition and antioxidant activity of wild <i>Lycium ruthenicum</i> Murr. from Qinghai-Tibet Plateau	Food Chemistry	126(3): 859-865	3.458
71	Liu Jia, Michael Wisniewski*, Samir Droby, Tian Shiping, Vera Hershkovitz, Thomas Tworowski	▲Effect of heat shock treatment on stress tolerance and biocontrol efficacy of <i>Metschnikowia fructicola</i>	FEMS Microbiology Ecology	76(1): 245-255	3.456
72	Ren Haiyan, Xu Zhuwen, Huang Jianhui*, Christopher Clark, Chen Shiping, Han Xingguo	Nitrogen and water addition reduce leaf longevity of steppe species	Annals of Botany	107(1): 145-155	3.388
73	Sun Haiqin*, Huang Baoqiang, Yu Xiaohong, Kou Yong, An Dejun, Luo Yibo, Ge Song	Reproductive isolation and pollination success of rewarding <i>Galearis diantha</i> and non-rewarding <i>Ponerorchis chusua</i> (Orchidaceae)	Annals of Botany	107(1): 39-47	3.388
74	Sui Yuan, He Weiming, Pan Xu, Dong Ming*	Partial mechanical stimulation facilitates the growth of the rhizomatous plant <i>Leymus secalinus</i> : modulation by clonal integration	Annals of Botany	107(4): 693-697	3.388
75	Wan Yinglang, William M Ash III, Fan Lusheng, Hao Huaiqin, Myung K Kim, Lin Jinxing*	Variable-angle total internal reflection fluorescence microscopy of intact cells of <i>Arabidopsis thaliana</i>	Plant Methods	7(1):27	3.277
76	Li Zhiming, Zheng Xiaoming, Ge Song*	Genetic diversity and domestication history of African rice ( <i>Oryza glaberrima</i> ) as inferred from multiple gene sequences	Theoretical and Applied Genetics	123(1): 21-31	3.264
77	Zhang Naili, Xia Jianyang, Yu Xingjun, Ma Keping, Wan Shiqiang*	Soil microbial community changes and their linkages with ecosystem carbon exchange under asymmetrically diurnal warming	Soil Biology & Biochemistry	43(10): 2053-2059	3.242
78	Chen Xianyang, Nie Lingling, Bao Hexigeduleng, Jiang Ping, Lü Sulian, Li Yinxin*	Modified noninvasive microtest electrophysiological technology for vacuolar H <sup>+</sup> flux detection	Analytical Biochemistry	418(2): 295-297	3.236
79	Wang Zhiping*, Flank Keppler, Markus Greule, John T.G. Hamilton	▲ Non-microbial methane emissions from fresh leaves: Effects of physical wounding and anoxia	Atmospheric Environment	45(28): 4915-4921	3.226
80	Zhao Le, Sun YongLe, Cui SuXia, Chen Mei, Yang Haomeng, Liu Huimin, Chai Tuanyao, Huang Fang*	Cd-induced changes in leaf proteome of the hyperaccumulator plant <i>Phytolacca americana</i>	Chemosphere	85(1): 56-66	3.155
81	Liu Jia, Michael Wisniewski*, Samir Droby, Silvana Veró, Tian Shiping*, Vera Hershkovitz	▲ Glycine betaine improves oxidative stress tolerance and biocontrol efficacy of the antagonistic yeast <i>Cystofilobasidium infirmominatum</i>	International Journal of Food Microbiology	146(1): 76-83	3.143
82	Zhang Guangming, Han Xingguo, James J. Elser*	Rapid top-down regulation of plant C:N:P stoichiometry by grasshoppers in an Inner Mongolia grassland ecosystem	Oecologia	166(1): 253-264	3.129
83	Yu Qiang, James J.Elser, He Nianpeng, Wu Honghui, Chen Quansheng, Zhang Guangming, Han Xingguo*	Stoichiometric homeostasis of vascular plants in the Inner Mongolia grassland	Oecologia	166(1): 40553	3.129
84	Song Shiyong, Chen Ying, Chen Jie, Dai Xiaoyan, Zhang Wenhao*	Physiological mechanisms underlying Os-NAC5-dependent tolerance of rice plants to abiotic stress	Planta	234(2): 331-345	3.098
85	Zhang Lili, Zhao Mingui, Tian Qiuying, Zhang Wenhao*	Comparative studies on tolerance of <i>Medicago truncatula</i> and <i>Medicago falcata</i> to freezing	Planta	234(3): 445-457	3.098
86	Zhou Haifei, Li Shanshan, Ge Song*	Development of Microsatellite Markers for <i>Miscanthus Sinensis</i> (Poaceae) and Cross-Amplification in Other Related Species	American Journal of Botany	98(7): e195-e197	3.052
87	Yu HY, Gao J, Luo YB, Bai WN*	Development of polymorphic microsatellite markers for <i>Incarvillea sinensis</i> (Bignoniaceae)	American Journal of Botany	98(8): e224-e225	3.052
88	Liu Han, Xia Tao, Zuo Yunjuan, Chen Zhongjian, Zhou Shiliang*	Development and characterization of microsatellite markers for <i>Panax notoginseng</i> (araliaceae), a Chinese traditional herb	American Journal of Botany	98(10): e274-e267	3.052
89	Xiong Conghui, Wang Qi*	Permian-Triassic land-plant diversity in South China: Was there a mass extinction at the Permian/Triassic boundary?	Paleobiology	37(1): 157-167	3.045
90	Ji Yuhe, Zhou Guangsheng*	Important factors governing the incompatible trends of annual pan evaporation: evidence from a small scale region	Climatic Change	106(2): 303-314	3.016



91	Chen Jing, Huang Yao*, Tang Yonghua	▲Quantifying economically and ecologically optimum nitrogen rates for rice production in south-eastern China	Agriculture Ecosystems & Environment	142(3-4): 195-204	2.79
92	Yang Fulin, Zhou Guangsheng*, John E. Hunt, Zhang Feng	Biophysical regulation of net ecosystem carbon dioxide exchange over a temperate desert steppe in Inner Mongolia, China	Agriculture Ecosystems & Environment	142(3-4): 318-328	2.79
93	Philipp Schönbach*, Wan Hongwei, Martin Gierus, Bai Yongfei, Katrin Müller, Lin Lijun, Andreas Susenbeth, Friedhelm Taube	▲Grassland responses to grazing: effects of grazing intensity and management system in an Inner Mongolian steppe ecosystem	Plant and Soil	340(1-2): 103-115	2.773
94	Wu Honghui, Dannenmann Michael*, Fanselow Nicole, Wolf Benjamin, Yao Zhisheng, Wu Xing, Brueggemann Nicolas, Zheng Xunhua, Han Xingguo, Dittert Klaus, Butterbach-Bahl Klaus	▲Feedback of grazing on gross rates of N mineralization and inorganic N partitioning in steppe soils of Inner Mongolia	Plant and Soil	340(1-2): 127-139	2.773
95	Zheng Shuxia, Lan Zhichun, Li Wenhui, Shao Ruixin, Shan Yumei, Wan Hongwei, Friedhelm Taube, Bai Yongfei*	Differential responses of plant functional trait to grazing between two contrasting dominant C <sub>3</sub> and C <sub>4</sub> species in a typical steppe of Inner Mongolia, China	Plant and Soil	340(1-2): 141-155	2.773
96	Klaus Butterbach-Bahl, Ingrid Kögel-Knabner, Han Xingguo*	▲ Steppe ecosystems and climate and land-use changes-vulnerability, feedbacks and possibilities for adaptation	Plant and Soil	340(1-2): 1-6	2.773
97	Liu Yanshu, Pan Qingmin*, Liu Hongde, Bai Yongfei, Matthew Simmons, Klaus Dittert, Han Xingguo	Plant responses following grazing removal at different stocking rates in an Inner Mongolia grassland ecosystem	Plant and Soil	340(1-2): 199-213	2.773
98	Wan Hongwei*, Bai Yongfei, Philipp Schönbach, Martin Gierus, Friedhelm Taube	▲Effects of grazing management system on plant community structure and functioning in a semiarid steppe: scaling from species to community	Plant and Soil	340(1-2): 215-226	2.773
99	Li Jiangzhou, Lin Shan*, Friedhelm Taube, Pan Qingmin, Klaus Dittert	▲Above and belowground net primary productivity of grassland influenced by supplemental water and nitrogen in Inner Mongolia	Plant and Soil	340(1-2): 253-264	2.773
100	Maximilian H.O.M. Wittmer, Karl Auerswald*, Philipp Schönbach, Bai Yongfei, Hans Schnyder	▲ <sup>15</sup> N fractionation between vegetation, soil, faeces and wool is not influenced by stocking rate	Plant and Soil	340(1-2): 25-33	2.773
101	Yang Hao, Karl Auerswald, Bai Yongfei*, Han Xingguo	Complementarity in water sources among dominant species in typical steppe ecosystems of Inner Mongolia, China	Plant and Soil	340(1-2): 303-313	2.773
102	Wang Changhui, Klaus Butterbach-Bahl, Han Yi, Wang Qibing, Zhang Lihua, Han Xingguo, Xing Xuerong*	The effects of biomass removal and N additions on microbial N transformations and biomass at different vegetation types in an old-field ecosystem in northern China	Plant and Soil	340(3): 397-411	2.773
103	Liu Huijiang, Shi Xiang, Wang Jiancheng, Yin Linke, Huang Zhenying*, Zhang Daoyuan*	▲Effects of sand burial, soil water content and seed bank distribution pattern on seed germination and seedling survival of <i>Eremosparton songoricum</i> (Fabaceae), a rare species inhabiting the moving sand dunes of the Gurbantunggut Desert of China	Plant and Soil	345(1): 69-87	2.773
104	Kong Deliang*, Wu Huifang, Zeng Tao, Simmons Matthew, Wang Meng, Sun Xiaofang, Han Xingguo*	▲Plant functional group removal alters root biomass and nutrient cycling in a typical steppe in Inner Mongolia, China	Plant and Soil	346(1-2): 133-144	2.773
105	Jiang Lili, Han Xingguo*, Dong Ning, Wang Yanfen, Paul Kardol	Plant species effects on soil carbon and nitrogen dynamics in a temperate steppe of northern China	Plant and Soil	346(1-2): 331-347	2.773
106	Zhang Liwen, Mi Xiangcheng, Shao Hongbo, Ma Keping*	▲Strong plant-soil associations in a heterogeneous subtropical broad-leaved forest	Plant and Soil	347(1-2): 211-220	2.773
107	Yan Liming, Chen Shiping*, Huang Jianhui, Lin Guanghui	Increasing water and nitrogen availability enhanced net ecosystem CO <sub>2</sub> assimilation of a temperate semiarid steppe	Plant and Soil	349(1-2): 227-240	2.773
108	Li YS, Gao Y, Tian QY, Shi FL*, Li LH, Zhang WH*	Stimulation of root acid phosphatase by phosphorus deficiency is regulated by ethylene in <i>Medicago falcata</i> .	Environmental and Experimental Botany	71(1): 114-120	2.699
109	Changcheng Liu, Yuguo Liu, Ke Guo*, Dayong Fan, Guoqing Li, Yuanrun Zheng, Lifei Yu, Rui Yang	Effect of drought on pigments, osmotic adjustment and antioxidant enzymes in six woody plant species in karst habitats of southwestern China	Environmental and Experimental Botany	71(2): 174-183	2.699
110	Qin Xiaochun, Wang Wenda, Wang Keping, Xin Yueyong, Kuang Tingyun*	Isolation and Characteristics of the PSI-LHCI-LHCII Supercomplex Under High Light	Photochemistry and Photobiology	87(1): 143-150	2.679
111	Fan Weihong, Cui Weitong, Li Xiaofeng, Chen Shuangyan, Liu Gongshe*, Shen Shihua*	Proteomics analysis of rice seedling responses to ovine saliva	Journal of Plant Physiology	168(1): 500-509	2.677
112	Liu Yaju, Xu Yunyuan, Xiao Jun, Ma Qibin, Li Dan, Xue Zhen, Chong Kang*	OsDOG, a gibberellin-induced A20/AN1 zinc-finger protein, negatively regulates gibberellin-mediated cell elongation in rice	Journal of Plant Physiology	168(10): 1098-1105	2.677
113	Zhou QY, Wang L, Cai X, Wang D, Hua XJ, Qu LQ, Lin JX, Chen T*	Net sodium fluxes change significantly at anatomically distinct root zones of rice ( <i>Oryza sativa</i> L.) seedlings	Journal of Plant Physiology	168(11): 1249-1255	2.677
114	Chen Xiaoying, Li Wei, Lu Qingtao, Wen Xiaogang, Li Hongwei, Kuang Tingyun, Li Zhensheng, Lu Congming*	The xanthophyll cycle and antioxidative defense system are enhanced in the wheat hybrid subjected to high light stress	Journal of Plant Physiology	168(15): 1828-1836	2.677

115	Li Wenxuan, Han Yingying, Tao Feng, Chong Kang*	Knockdown of SAMS genes encoding S-adenosyl-L-methionine synthetases causes methylation alterations of DNAs and histones and leads to late flowering in rice	Journal of Plant Physiology	168(15): 1837-1843	2.677
116	Li Wei, Zhang Chunyan, Lu Qingtao, Wen Xiaogang, Lu Congming*	The combined effect of salt stress and heat shock on proteome profiling in <i>Suaeda salsa</i>	Journal of Plant Physiology	168(18): 1743-1752	2.677
117	Wu Hanying, Shen Ye, Hu Yuanlei*, Tan Sijun, Lin Zhongping	▲A phytoeyanin-related early nodulin-like gene, <i>BcBCP1</i> , cloned from <i>Boea crassifolia</i> enhances osmotic tolerance in transgenic tobacco	Journal of plant physiology	168(9): 935-943	2.677
118	Ding Qiong, Liang Yu*, Pierre Legendre, He Xinhua, Pei Kequan, Du Xiaojun, Ma Keping	Diversity and composition of ectomycorrhizal community on seedling roots: the role of host preference and soil origin	Mycorrhiza	21(8): 669-680	2.571
119	Yang Fulin, Zhou Guangsheng*	Characteristics and modeling of evapotranspiration over a temperate desert steppe in Inner Mongolia, China	Journal of Hydrology	396(0): 139-147	2.514
120	Tang Mingjuan, Liu Xiaofei, Deng Huaping*, Shen Shihua*	Over-expression of <i>JcDREB</i> , a putative AP2/EREBP domain-containing transcription factor gene in woody biodiesel plant <i>Jatropha curcas</i> , enhances salt and freezing tolerance in transgenic <i>Arabidopsis thaliana</i>	Plant Science	181(6): 623-631	2.481
121	Su Man, Li Xiaofeng, Ma Xingyong, Peng Xianjun, Zhao Aiguo, Cheng Liqin, Chen Shuangyan*, Liu Gongshe*	Cloning two <i>P5CS</i> genes from bioenergy sorghum and their expression profiles under abiotic stresses and MeJA treatment	Plant Science	181(6): 652-659	2.481
122	Liu Hui, Yang Zhenle, Yang Mingfeng, Shen Shihua*	The differential proteome of endosperm and embryo from mature seed of <i>Jatropha curcas</i>	Plant Science	181(6): 660-666	2.481
123	Yang Jing, Yang Mingfeng, Zhang Wenpeng, Chen Fan, Shen Shihua*	A putative flowering-time-related Dof transcription factor gene, <i>JcDof3</i> , is controlled by the circadian clock in <i>Jatropha curcas</i>	Plant Science	181(6): 667-674	2.481
124	Wang Jing, Zhao Mengli*, Walter D. Willms, Han Guodong, Wang Zhongwu, Bai Yongfei	▲Can plant litter affect net primary production of a typical steppe in Inner Mongolia?	Journal of Vegetation Science	22(2): 367-376	2.457
125	Zheng Jie, Li Hui, Ding Chenxu, Su Yourui*, Wang Liangsheng, Wang Honglun	▲Anthocyanins composition and antioxidant activity of two major wild <i>Nitraria tangutorum</i> Bobr. variations from Qinghai-Tibet Plateau	Food Research International	44(7): 2041-2046	2.416
126	Wei Xiaoxin*, Jean Beaulieu, Damase P. Khasa, Jesús Vargas-Hernández, Javier López-Upton, Barry Jaquish, Jean Bousquet	Range-wide chloroplast and mitochondrial DNA imprints reveal multiple lineages and complex biogeographic history for Douglas-fir	Tree Genetics & Genomes	7(5): 1025-1040	2.416
127	Zhang W, Wang XQ, Li ZY*	The protective shell: sclereids and their mechanical function in corollas of some species of <i>Camellia</i> (Theaceae)	Plant Biology	13(4): 145-148	2.409
128	Fan Dayong, Jie Shenglin, Liu Changcheng, Zhang Xiangying, Xu Xinwu, Zhang Shouren, Xie Zongqiang*	The trade-off between safety and efficiency in hydraulic architecture in 31 woody species in a karst area	Tree Physiology	31(8): 865-877	2.403
129	Yao Yifeng, Angela A. Bruch, Volker Mosbrugger, Li Chengsen*	Quantitative reconstruction of Miocene climate patterns and evolution in Southern China based on plant fossils	Palaeogeography Palaeoclimatology Palaeoecology	304(3-4): 291-307	2.39
130	Ashalata D'Rozario*, Conrad Labandeira, Guo Wenyi, Yao Yifeng, Li Chengsen	▲Spatiotemporal extension of the Euramerican <i>Psaronius</i> component community to the Late Permian of Cathaysia: In situ coprolites in a <i>P. housuoensis</i> stem from Yunnan Province, southwest China	Palaeogeography Palaeoclimatology Palaeoecology	306(3-4): 127-133	2.39
131	Shi Xuequn, Li Boqiang, Qin Guozheng, Tian Shiping*	Antifungal Activity and Possible Mode of Action of Borate Against <i>Colletotrichum gloeosporioides</i> on Mango	Plant Disease	95(1): 63-69	2.387
132	Wang Guohong*, Li He, An Meng, Ni Jian, Ji Shengjun, Wang Juan	A regional-scale consideration of the effects of species richness on above-ground biomass in temperate natural grasslands of China	Journal of Vegetation Science	22(3): 414-424	2.376
133	Huang Jianxiong, Mi Xiangcheng*, Ma Keping	A genome evolution-based framework for measures of originality for clades	Journal of Theoretical Biology	276(1): 99-105	2.371
134	Zuo Yunjuan, Chen Zhongjian, Katsuhiko Kondo, Tsuneo Funamoto, Wen Jun*, Zhou Shiliang*	DNA Barcoding of <i>Panax</i> Species	Planta Medica	77(2): 182-187	2.369
135	Wang Shijun*, He Xiaoyuan, Shao Longyi	Cycad wood from the Lopingian (Late Permian) of southern China: <i>Shuichengoxylon tianii</i> gen. et sp. nov.	International Journal of Plant Sciences	172(5): 725-734	2.364
136	Qi Wang*	(1995) Proposal to conserve the name <i>Nilssonia</i> with that spelling (fossil <i>Cycadopsida</i> , <i>Nilssonaceae</i> )	Taxon	60(1): 240	2.364
137	Qi Wang*	(1996) Proposal to conserve the name <i>Carpolithus</i> with that spelling (fossil <i>Spermatopsida</i> )	Taxon	60(1): 241-242	2.364
138	Li Ya, Thierry Smith, Liu Changjiang, Nilamber Awasthi, Yang Jian, Wang Yufei, Li Chengsen*	Endocarps of <i>Prunus</i> (Rosaceae: Prunoideae) from the early Eocene of Wutu, Shandong Province, China	Taxon	60(2): 555-564	2.364
139	Yang Yong, Zhang Xuwei, John H. Wiersma*	Notes on the typification of <i>Beilschmiedia xizangensis</i> (Lauraceae)	Taxon	60(2): 577-578	2.364
140	Ren Hui, Lu Limin, Soejima Akiko, Luke Quentin, Zhang Dianxiang, Chen Zhiduan, Wen Jun*	▲Phylogenetic analysis of the grape family (Vitaceae) based on the noncoding plastid <i>trnC-petN</i> , <i>trnH-psbA</i> , and <i>trnL-F</i> sequences	Taxon	60(3): 629-637	2.364
141	Peng Xianjun, Ma Xingyong, Fan Weihong, Su Man, Cheng Liqin, Iftekhar Alam, Byung-Hyun Lee, Qi Dongmei, Shen Shihua*, Liu Gongshe*	Improved drought and salt tolerance of <i>Arabidopsis thaliana</i> by transgenic expression of a novel DREB gene from <i>Leymus chinensis</i>	Plant Cell Reports	30(8): 1493-1502	2.279

142	Lai Tongfei, Wang Yuying, Li Boqiang, Qin Guozheng, Tian Shiping*	Defense responses of tomato fruit to exogenous nitric oxide during postharvest storage	Postharvest Biology and Technology	62(2): 127-132	2.256
143	Lü Fumei, Lv Xiaotao, Liu Wei, Han Xu, Zhang Guangming, Kong Deliang, Han Xingguo*	Carbon and nitrogen storage in plant and soil as related to nitrogen and water amendment in a temperate steppe of northern China	Biology and Fertility of Soils	47(2): 187-196	2.156
144	Bai Fan, Sang Weiguo*, Jan C. Axmacher	Forest vegetation responses to climate and environmental change: A case study from Changbai Mountain, NE China	Forest Ecology and Management	262(11): 2052-2060	1.992
145	Ashalata D'Rozario*, Sun Bin, Jean Galtier, Wang Shijun, Guo Wenyi, Yao Yifeng, Li Chengsen	▲ Studies on the Late Permian permineralized tree fern <i>Psaronius housuoensis</i> sp. nov. from Yunnan Province, southwest China	Review of Palaeobotany and Palynology	163(3-4): 247-263	1.985
146	Natalya Nosova*, Zhang Jianwei, Li Chengsen	▲ Revision of <i>Ginkgoites obrutschewii</i> (Seward) Seward (Ginkgoales) and the new material from the Jurassic of Northwestern China	Review of Palaeobotany and Palynology	166(3-4): 286-294	1.985
147	Liang Zhangchang, Sang Min, Fan Peige, Wu Benhong, Wang Lijun, Yang Shuhua, Li Shaohua*	CIELAB coordinates in response to berry skin anthocyanins and their composition in <i>vitis</i>	Journal of Food Science	76(3): C490-C497	1.733
148	Lei Lei, Stewart CN, Tang Zhixi, Wei Wei*	Dynamic expression of green fluorescent protein and <i>Bacillus thuringiensis</i> Cry1Ac endotoxin in interspecific hybrids and successive backcross generations (BC1 and BC2) between transgenic <i>Brassica napus</i> crop and wild <i>Brassica juncea</i>	Annals of Applied Biology	159(2): 212-219	1.681
149	Zhou Youbing, Chris Newman, Christina D. Buesching, Andrzej Zalewski, Yayoi Kaneko, David W. Macdonald, Xie Zongqiang*	Diet of an opportunistically frugivorous carnivore, <i>Martes flavigula</i> , in subtropical forest	Journal of Mammalogy	19(3): 611-619	1.541
150	Jiang Hong*, Wei Wei, Song Xiaodong, Stewart CN, Zhou Guomo, Jiang Zishan, Zhu Qiuhan, Yu Shuquan, Peng Shaolin	▲ Hyperspectral studies of transgenic oilseed rape	International Journal of Remote Sensing	32(4): 1095-1103	1.182
151	Wang Yuying, Li Boqiang, Qin Guozheng, Li Li, Tian Shiping*	Defense response of tomato fruit at different maturity stages to salicylic acid and ethephon	Scientia Horticulturae	129(2): 183-188	1.045
152	Zhang Jichong, Agnes Murphy, Liu Gongshe, Benoit Bizimungu, Liu Qiang, Yves Leclerc, Xing Ti, Li Xiuqing*	Starch granule size variation and relationship with tuber dry matter content in heritage potato varieties	Scientia Horticulturae	130(3): 503-509	1.045
153	Ouyang Min, Li Xiaoyi, Ma Jinfang, Chi Wei, Xiao Jianwei, Zou Meijuan, Chen Fan, Lu Congming, Zhang Lixin*	LTD is a protein required for sorting light-harvesting chlorophyll-binding proteins to the chloroplast SRP pathway	Nature Communications	2(277): 1-11	
154	Sun Xuwu, Feng Peiqiang, Xu Xiumei, Guo Hailong, Ma Jinfang, Chi Wei, Lin Rongchen, Lu Congming, Zhang Lixin*	A chloroplast envelope-bound PHD transcription factor mediates chloroplast signals to the nucleus	Nature Communications	2(477): 1-10	
155	V. Prasad, C.A.E. Strömberg*, A.D. Leaché, B. Samant, R. Patnaik, L. Tang, D.M. Mohabey, S. Ge, A. Sahni	▲ Late Cretaceous origin of the rice tribe provides evidence for early diversification in Poaceae	Nature Communications	1(2): 480	

注：表中为植物所 2011 年发表的 JCR 领域 TOP30% 期刊论文

▲：植物所为非第一完成单位的文章。

\*：文章通讯作者。

## 2011年植物研究所获得重要奖项

成果名称	获奖人员	奖项名称	申报单位
《中华人民共和国植被图(1:100万)》的编研及其数字化	侯学煜、张新时、李博、孙世洲、何妙光	国家自然科学基金二等奖	第一完成单位
藏北高原环境治理植物资源引种栽培关键技术研究示范	石雷、唐宇丹、王忠全、扎西、姜闯道、扎西(小)、张金政、索朗望堆、崔洪霞、周直升、普布次仁、洛桑达瓦、左力、孙国锋、张鹏	西藏自治区科学技术奖二等奖	第一完成单位

## 2011年植物研究所获批国家自然科学基金项目(不含面上项目等)

项目名称	项目类型	负责人	批准号	合同经费(万)	起止时间
植物细胞分化与器官发生	创新群体	种康	31121065	600	2012.01—2014.12
新一代能源作物快速驯化的遗传和基因组学基础	基金重大研究计划重点项目	桑涛	91131902	330	2012.01—2015.12
大气N沉降对内蒙古草原植被-土壤系统 <sup>15</sup> N自然丰度梯度变化和N循环特征的影响	基金重点	李凌浩	31130008	300	2012.01—2016.12
核基因编码的叶绿体蛋白转运调控机理	基金重点	张立新	31130059	300	2012.01—2016.12
植物细胞骨架结构与功能	杰出青年	黄善金	31125004	200	2012.01—2015.12
植物进化与发育	杰出青年	孔宏智	31125005	200	2012.01—2015.12

## 2011年植物研究所获批科技部项目

项目(课题)名称	项目类型	负责人	前两年合同经费(万)	起止时间
标本资源共享平台	科技基础条件平台	马克平	2000	2011.10—2012.12
泛喜马拉雅地区植物综合考察与植物志编研	科技基础工作专项	洪德元	1500	2012.01—2016.12
组蛋白甲基化修饰重要调控蛋白质的蛋白质组解析	973课题	王台	300	2012.01—2016.12
藤本忍冬新品种中试与示范	科技部农业成果转化	张金政	60	2011.04—2013.04

## 2011年植物研究所获批中科院项目

项目(课题)名称	项目类型	负责人	合同经费(万)	起止时间
草地生态系统固碳现状、速率、机制和潜力	院先导专项课题	白永飞	5800	2011.01—2015.12
中国灌丛生态系统的固碳现状、变化和机制	院先导专项课题	谢宗强	1800	2011.01—2015.12
土地利用CH <sub>4</sub> 和N <sub>2</sub> O排放机理及模型模拟	院先导专项课题	黄耀	738	2011.01—2015.12
亚热带常绿阔叶林北部区域森林固碳现状、速率和潜力研究	院先导专项课题	马克平	735	2011.01—2015.12
光系统II光能有效分配调控基因的功能研究	院方向性项目	林荣呈	460	2011.01—2013.12
新一代能源作物——芒草的驯化生物学	院方向性项目	桑涛	300	2012.01—2014.12
资源植物次生代谢物的生物合成与转录调控	“百人计划”项目	庞永珍	200	2011.09—2014.09





## 2011 年植物研究所主要在研国际合作项目

课题名称	负责人	合作单位	经费来源	总经费(万)	起止时间
尼罗河流域典型地区植被生态保护技术合作	吴冬秀	苏丹国家研究中心、塞俄比亚哈拉玛雅大学、坦桑尼亚的达·埃萨萨莱姆大学	科技部	235	2011.01—2013.12
《泛喜马拉雅植物志》预研	张宪春	缅甸、尼泊尔	中国科学院	130	2011.05—2013.12
五千五百万年前古新世—始新世暖期中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	2009.01—2011.12
蓝莓花青素功效成分分离及生物活性分子机理研究	王亮生	日本鹿儿岛大学	科技部	90	2011.05—2012.05
放牧和气候变化影响下蒙古高原生态系统和适应性研究	白永飞	美国东密歇根大学	美国东密歇根大学	75	2010.01—2012.12
东北亚草原植被适应性研究	董鸣	蒙古科学院植物研究所	中国科学院	70	2010.01—2012.12
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	2009.01—2011.12
水稻内皮层细胞及凯氏带特异蛋白的蛋白质组学和细胞生物学分析	林金星	德国波恩大学	中德中心	35	2010.09—2013.09

## 2011 年植物研究所出版著作

序号	主编	著作名称	出版社
1	Wu Pengcheng (吴鹏程) & M. R. Crosby	Moss Flora of China (Volume 5)	Science Press & Miss
2	吴鹏程、贾渝	中国苔藓志 (第 5 卷)	科学出版社
3	刘公社	羊草种质资源研究	科学出版社
4	傅德志	王文采院士论文集(上、下册)	高等教育出版社
5	马克平	Asian Plant Conservation Report 2010: A Review of Progress in Implementing the Global Strategy for PI	高等教育出版社
6	杨永、莫旭、刘冰	金沙江河谷四川攀枝花苏铁国家级自然保护区彩色植物图志	高等教育出版社
7	漆小泉、王玉兰、陈晓亚	植物代谢组学—方法与应用	化学工业出版社
8	石雷、李振宇、王祺	周口店植物	北京出版社
9	蒋高明	中国生态环境危急	海南出版社
10	傅德志	世界维管植物(全 50 卷)	青岛出版社
11	傅德志	环境教育——绿色行动 (四年级)	青岛出版社
12	傅德志	环境教育——绿色行动 (五年级)	青岛出版社
13	傅德志	环境教育——绿色行动 (六年级)	青岛出版社
14	傅德志	环境教育——绿色行动 (七年级)	青岛出版社
15	傅德志	环境教育——绿色行动 (八年级)	青岛出版社
16	傅德志	手绘濒危植物长编	甘肃教育出版社、甘肃少年儿童出版社
17	傅德志、孙英宝、杨永、覃海宁	手绘濒危植物	甘肃教育出版社、甘肃少年儿童出版社

## 2011年植物研究所获得专利授权

专利名称	专利号	授权日期	专利类型	发明人
一种氨基多糖和/或寡糖保鲜剂及其制备方法	ZL 200810114819.5	2011-01-26	发明专利	田世平、孟祥红、徐勇
小麦肉桂醇脱氢酶及其编码基因与应用	ZL 200910080159.8	2011-03-30	发明专利	马庆虎
帕克醇合成相关蛋白及其编码基因与应用	ZL 200810117225.X	2011-03-30	发明专利	漆小泉、薛哲勇、段礼新
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丁香品种‘罗蓝紫’幼苗的越冬促长方法	ZL 200710063616.3	2011-04-13	发明专利	崔洪霞、顾晓红、唐宇丹、张金政、石雷、张会金、姚涓
一种提取植物脂筏的方法	ZL 200910080002.5	2011-04-13	发明专利	林金星、李瑞丽、陈彤
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植物叶绿体总蛋白的提取方法	ZL 200910077964.5	2011-06-22	发明专利	李银心、范鹏祥
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库区消落带草本植物种子丸衣化种种衣剂和丸衣化技术	ZL 200810227784.6	2011-09-14	发明专利	高贤明
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一种培育叶夹角改变的转基因水稻的方法及其专用重组载体	ZL 200910091548.0	2011-11-16	发明专利	种康、李丹、黎家、许智宏
检测兰科植物种子生活力的方法	ZL 200910086543.9	2011-11-16	发明专利	何明高、宋松泉、宋希强、王瑞霞
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一种适于舰船环境的抗风浪蔬菜栽培装置	ZL 201020523548.1	2011-05-18	实用新型	张明华、李银心、李和兴、傅毅虹
一种可利用自然光源、可拆卸组装的蔬菜栽培装置	ZL 201020512543.9	2011-05-18	实用新型	李银心、张明华、李和兴、傅毅虹