

## 科学研究

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 科研论文

2011-2015年, 我室在国内外重要刊物上发表学术论文630篇, 其中SCI论文474篇。作为第一或通讯作者在 *Science*、*PNAS*、*Annual Review of Entomology*、*Molecular Biology and Evolution*、*Nature Communications*、*Current Biology*、*Global Change Biology*、*PLoS Pathogens*、*PLoS Genetics*、*Ecology*等刊物发表论文340篇, 其中,  $IF5 > 8$ 的论文18篇,  $5 \leq IF < 8$ 的论文49篇, 21篇论文发表在中国科学院SCI论文分区表的一区期刊上, 73篇论文发表在二区, 占全部论文的27.6%。5年平均影响因子(IF5)为3.72。

作者	题目	刊物	年份	页码	IF	top
Cease AJ, Elser JJ, Ford CF, Hao SG, Kang L, Harrison JF	Heavy livestock grazing promotes locust outbreaks by lowering plant nitrogen content	Science	2012	335:467-469	31.201	15%
Liu WW, Liang XH, Gong JX, Yang Z, Zhang YH, Zhang JX, Rao Y	Social regulation of aggression by pheromonal activation of Or65a olfactory neurons in <i>Drosophila</i>	Nature Neuroscience	2011	14(7):896-902	15.531	5%
Sun JH, Lu M, Gillette NE, Wingfield MJ	Red turpentine beetle: innocuous native becomes invasive tree killer in China	Annual Review of Entomology	2013	58:293-311	11.455	5%
Zhang C, Zhang DX, Zhu TQ, Yang ZH	Evaluation of a bayesian coalescent method of species delimitation	Systematic Biology	2011	60(6):747-761	10.225	10%
Zhang C, Rannala B, Yang ZH	Robustness of compound dirichlet priors for bayesian inference of branch lengths	Systematic Biology	2012	61(5):779-784	10.225	10%
Ma ZY, Guo W, Guo XJ, Wang XH, Kang L	Modulation of behavioral phase changes of the migratory locust by the catecholamine metabolic pathway	PNAS	2011	108(10):3882-3887	9.681	5%
Xu L, Liu QY,	Nonlinear effect	PNAS	2011	108(25):10214-	9.681	5%

Stige LC, Ben Ari T, Fang XY, Chan KS, Wang SC, Stenseth NC, Zhang ZB	of climate on plague during the third pandemic in China			10219		
Tian HD, Stige LC, Cazelles B, Kausrud KL, Svarverud R, Stenseth NC, Zhang ZB	Reconstruction of a 1,910-y-long locust series reveals consistent associations with climate fluctuations in China	PNAS	2011	108(10):3882-3887	9.681	5%
Wu R, Wu ZM, Wang XH, Yang PC, Yu D, Zhao CX, Xu GW, Kang L	Metabolomic analysis reveals that carnitines are key regulatory metabolites in phase transition of the locusts	PNAS	2012	109(9):3259-3263	9.681	5%
Ben-Ari T, Neerinckx S, Agier L, Cazelles B, Xu L, Zhang ZB, Fang XY, Wang SC, Liu QY, Stenseth NC	Identification of Chinese plague foci from long- term epidemiological data	PNAS	2012	109(21):8196-8201	9.681	5%
Zhu SY, Gao B, Harvey PJ, Craik DJ	Dermatophytic defensin with antiinfective potential	PNAS	2012	109(22):8495-8500	9.681	5%
Sang WS, Zhou Z, Tusar TS, Alexander SR	bHLH-PAS heterodimer of methoprene- tolerant and Cycle mediates circadian expression of juvenile hormone- induced mosquito genes	PNAS	2012	109(41):16576- 16581	9.681	5%
Wang YD, Yang PC, Cui F, Kang L	Altered immunity in crowded locust reduced fungal ( <i>Metarhizium anisopliae</i> ) pathogenesis	PLoS Pathogens	2013	9(1):e1003102	9.127	10%
Guo W, Wang XH, Ma ZY, Xue LA,	CSP and Takeout genes modulate the	PLoS Genetics	2011	7(2):e1001291	8.694	10%

Han JY, Yu D, Kang L	switch between attraction and repulsion during behavioral phase change in the migratory locust					
Zhu SY, Peigneur S, Gao B, Luo L, Jin D, Zhao Y, Tytgat J	Molecular diversity and functional evolution of scorpion potassium channel toxins	Molecular & Cellular Proteomics	2011	10(2):M110.002832	7.398	10%
Zhu SY, Peigneur S, Gao B, Lu XX, Cao CY, Tytgat J	Evolutionary diversification of <i>Mesobuthus</i> alpha-scorpion toxins affecting sodium channels	Molecular & Cellular Proteomics	2012	11(1): M111.012054	7.398	10%
Wei JN, Wang LH, Zhao JH, Li CY, Ge F, Kang L	Ecological trade-offs between jasmonic acid-dependent direct and indirect plant defences in tritrophic interactions	New Phytologist	2011	189(2):557-567	6.645	5%
Leng L, Zhang DX	Measuring population differentiation using GST or D? A simulation study with microsatellite DNA markers under a finite island model and nonequilibrium conditions	Molecular Ecology	2011	20(12):2494-2509	5.522	10%
Ma C, Yang PC, Jiang F, Chapuis MP, Shali Y, Sword GA, Kang L	Mitochondrial genomes reveal the global phylogeography and dispersal routes of the migratory locust	Molecular Ecology	2012	21(17):4344-4358	5.522	10%
Zhang B, Edwards OR, Kang L, Fuller SJ	Russian wheat aphids ( <i>Diuraphis noxia</i> ) in China: native range expansion or recent introduction?	Molecular Ecology	2012	21(9):2130-2144	5.522	10%
Shi CM, Ji YJ, Liu L, Wang L, Zhang DX	Impact of climate changes from Middle Miocene onwards on	Molecular Ecology	2013	22(6):1700-1716	5.522	10%

	evolutionary diversification in Eurasia: Insights from the mesobuthid scorpions					
Zhang Y, Wang XH, Kang L	A <i>k-mer</i> scheme to predict piRNAs and characterize locust piRNAs	Bioinformatics	2011	27(6):771-776	5.468	10%
Zhang ZY, Chen B, Zhao DJ, Kang L	Functional modulation of mitochondrial cytochrome c oxidase underlies adaptation to high-altitude hypoxia in a Tibetan migratory locust	Proceedings of The Royal Society B-Biological Sciences	2013	280(1756):	5.415	10%
Ye LF, Fu X, Ge F	Enhanced sensitivity to higher ozone in a pathogen-resistant tobacco cultivar	Journal of Experimental Botany	2012	63(3):1341-1347	5.364	10%
Zhu SY, Aumelas A, Gao B	Convergent Evolution-Guided Design of Antimicrobial Peptides Derived from Influenza A Virus Hemagglutinin	Journal of Medicinal Chemistry	2011	54(4):1091-1095	5.248	10%
Yang C, Zhang W, Liu RH, Li Q, Li BB, Wang SF, Song CJ, Qiao CL, Mulchandani A	Phylogenetic diversity and metabolic potential of activated sludge microbial communities in full-scale wastewater treatment plants	Environmental Science & Technology	2011	45(17):7408-7415	5.228	5%
Wei JN, Yan LH, Ren Q, Li CY, Ge F, Kang L	Antagonism between herbivore-induced plant volatiles and trichomes affects tritrophic interactions	Plant Cell and Environment	2013	36(2):315-327	5.215	10%
Sun YJ, Wang HP, Liang YJ	An NMR-based metabonomic investigation of the subacute	Journal of Proteome Research	2012	11(4):2544-2550	5.113	15%

Yang L, Li W, Wu YJ	effects of melamine in rats						
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