

杨师杰教授课题组论文获评 Chinese Physics B 2014 年度十佳论文

杨师杰教授和博士生刘永恺的论文, Three-dimensional solitons in two-component Bose—Einstein condensates, 运用同伦群理论研究了三维拓扑孤子的复杂扭结结构, 该论文被 Chinese Physics B 评为 2014 年的 Highlights 文章 (共 10 篇), 并在该期刊的国际合作发行商英国物理学会 (IOP) 出版平台“[Highlights of 2014](#)”专栏发布。



杨师杰教授课题组近年来主要从事玻色-爱因斯坦凝聚中的拓扑激发以及光格子中超冷原子的强关联性质的研究。

附:

各位老师, 您好!

很高兴地通知您: 您在 CPB 2014 年发表的如下文章被评选为我刊 2014 年的 Highlights 文章 (共 10 篇), 已在我刊国际合作发行商英国物理学会 (IOP) 出版平台“[Highlights of 2014](#)”专栏发布 (<http://iopscience.iop.org/1674-1056/page/Highlights-of-2014>), 并将全文免费开放一年, 全世界读者可以免费下载。

Chinese Physics B: Highlights of 2014

Welcome to a special collection of some of the best articles published in *Chinese Physics B* in 2014. This collection represents the breadth and excellence of the research published in the journal last year.

All selected articles are free to read for the duration of 2015.

List of the Highlights of 2014

1. [Large-scale SiO₂ photonic crystal for high efficiency GaN LEDs by nanospherical-lens lithography](#) Wu Kui (吴奎), Wei Tong-Bo (魏同波), Lan Ding (蓝鼎), Zheng Hai-Yang (郑海洋), Wang Jun-Xi (王军喜), Luo Yi (罗毅) and Li Jin-Min (李晋闽) *Chinese Phys. B* 2014,23(2):028504

2. [Disappearance of the Dirac cone in silicene due to the presence of an electric field](#) D. A. Rowlands and Zhang Yu-Zhong (张宇钟) *Chinese Phys. B* 2014,23(3):037101
3. [Detection of Majorana fermions in an Aharonov—Bohm interferometer](#) Shang En-Ming (尚恩明), Pan Yi-Ming (潘义明), Shao Lu-Bing (邵陆兵) and Wang Bai-Gen (王伯根) *Chinese Phys. B* 2014,23(5):057201
4. [Mechano-chemical selections of two competitive unfolding pathways of a single DNA i-motif](#) Xu Yue (徐悦), Chen Hu (陈虎), Qu Yu-Jie (璩玉杰), Artem K. Efremov, Li Ming (黎明), Ouyang Zhong-Can (欧阳钟灿), Liu Dong-Sheng (刘冬生) and Yan Jie (严洁) *Chinese Phys. B* 2014,23(6):068702
5. [Modulating magnetism of nitrogen-doped zigzag graphene nanoribbons](#) Zhao Shang-Qian (赵尚骞), Lü Yan (吕燕), Lü Wen-Gang (吕文刚), Liang Wen-Jie (梁文杰) and Wang En-Ge (王恩哥) *Chinese Phys. B* 2014,23(6):067305
6. [Remote excitation and remote detection of a single quantum dot using propagating surface plasmons on silver nanowire](#) Li Qiang (李强), Wei Hong (魏红) and Xu Hong-Xing (徐红星) *Chinese Phys. B* 2014,23(9):097302
7. [High quality sub-monolayer, monolayer, and bilayer graphene on Ru\(0001\)](#) Xu Wen-Yan (徐文焱), Huang Li (黄立), Que Yan-De (阙炎德), Li En (李恩), Zhang Hai-Gang (张海刚), Lin Xiao (林晓), Wang Ye-Liang (王业亮), Du Shi-Xuan (杜世萱) and Gao Hong-Jun (高鸿钧) *Chinese Phys. B* 2014,23(9):098101
8. [Epitaxial evolution on buried cracks in a strain-controlled AlN/GaN superlattice interlayer between AlGaIn/GaN multiple quantum wells and a GaN template](#) Huang Cheng-Cheng (黄呈橙), Zhang Xia (张霞), Xu Fu-Jun (许福军), Xu Zheng-Yu (许正昱), Chen Guang (陈广), Yang Zhi-Jian (杨志坚), Tang Ning (唐宁), Wang Xin-Qiang (王新强) and Shen Bo (沈波) *Chinese Phys. B* 2014,23(10):106106
9. [Three-dimensional solitons in two-component Bose—Einstein condensates](#) Liu Yong-Kai (刘永恺) and Yang Shi-Jie (杨师杰) *Chinese Phys. B* 2014,23(11):110308
10. [Novel copper redox-based cathode materials for room-temperature sodium-ion batteries](#) Xu Shu-Yin (徐淑银), Wu Xiao-Yan (吴晓燕), Li Yun-Ming (李云明), Hu Yong-Sheng (胡勇胜) and Chen Li-Quan (陈立泉) *Chinese Phys. B* 2014,23(11):118202

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