



樊群超

性别：男

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学院：理学院

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个人简介

樊群超，博士，教授，硕士生导师，四川省科学与技术带头人后备人选，四川省杰出青年学术技术带头人培育人选。2009年获四川大学理学博士学位，随后在西华大学从事(超冷)分子结构与光谱、系统热力学性质分析、激光与物质相互作用等研究。近年来，先后主持、参与国家级科研项目4项，主持省部级科研4项，主持教育厅重点科技项目3项和5项军工项目。通过多年的开拓性研究，与合作者取得了一系列创新性的研究成果，在国内外SCI期刊上发表论文70余篇。培养和协助培养博士生5名、硕士生12名。

工作经历

2009.07 至今 西华大学理学院工作

教育经历

1999.09至2003.07 在长江大学就读大学本科 2003.09至2006.07 在四川大学原子与分子物理专业就读硕士研究生 2006.09至2009.07 在四川大学原子与分子物理专业就读博士研究生

研究方向

- 1、小分子(含超冷分子)结构与光谱研究
- 2、系统热力学性质分析研究
- 3、光与物质相互作用研究

学术成果

自何年何月	至何年何月	完成情况(在研/结题)	科研项目名称	下达单位/项目编号	经费(万元)	排名
2016.11	2018.11	在研	双核分子振动对体系宏观热力学性质影响的研究	教育部春晖计划项目	3.0	负责人
2016.11	2018.11	在研	基于原子分子计算的高分子热分解的研究	教育部春晖计划项目	2.0	2
2017.01	2017.12	在研	基于多条件物理约束的双原子分子精确振动能谱研究	国家自然科学基金科研项目	5.0	2
2013.01	2015.12	结题	双核体系精确势能的理论研究	国家自然科学基金科研项目(11204244)	25	负责人
2012.01	2014.12	结题	双核体系分子材料的微观结构研究	四川省科技厅科研项目(2012JQ0055)	10	负责人
2014.01	2015.12	结题	用N阶差分法研究双核分子的精确光谱结构	四川省教育厅科研项目(14ZA0117)	2.5	负责人
2011.01	2013.12	结题	分子高振动-转动激发态结构中的复杂相互作用	国家自然科学基金科研项目(11074204)	38	2
2012.01	2013.09	结题	双核分子材料微观结构研究	四川省教育厅科研项目(12ZA165)	3	负责人

2012.12	2013.12	结题	针孔圆盘校准装置	军工科研项目	9.35	负责人
2011.11	2013.04	结题	激光散斑数值仿真技术	军工科研项目	4.85	负责人
2011.01	2012.05	结题	类Be/U薄膜生长动力学理论研究	军工科研项目	3.5	负责人
2010.11	2013.05	结题	ICF数值模拟辐射场后处理软件包一后处理界面	军工科研项目	14.5	负责人
2011.07	2012.06	结题	靶材料设计	国家级军工科研项目	20	3
2013.09	2015.09	结题	加强物理专业实践与理论融合的教学研究	西华大学教育教学改革研究		负责人
2013.12	2016.12	结题	工科背景院校物理学的支撑作用教学改革研究	省高教人才培养质量和教学改革项目		2

1. **Qunchao Fan**, Zhixiang Fan, Weiguo Sun, Yi Zhang, Jia Fu, "Vibrational spectra and analytical potential energy functions of some electronic states of Na₂", Canadian Journal of Physics, 2017, 95(3), 253-261.
2. Zhang Chunguo, **Fan Qunchao***, Sun Weiguo, Fan Zhixiang, Zhang Yi, "Studies on the analytical potential energies for partial electronic states of Li₂ with variational algebraic energy consistent method", Spectroscopy and spectral analysis, 2016, 36(12), 3842-3847.
3. **Qunchao Fan**, Hao Feng, Weiguo Sun, Huidong Li, Yaoming Xie, R. Bruce King, and Henry F. Schaefer III, "Ligand conformations and spin states in open metallocenes of the first row transition metals having U-shaped 2,4-dimethylpentadienyl ligands", New J. Chem. 2016, 40, 8511-8521
4. Z. C. Yang, Z. B. Shi, W. L. Zhong, B. Y. Zhang, **Q. C. Fan**, H. D. Li, M. Jiang, P. W. Shi, C. Y. Chen, W. Chen, Z. T. Liu, D. L. Yu, Y. Zhou, B. Feng, X. M. Song, X. T. Ding, Q. W. Yang, X. R. Duan, and HL-2A Team, "Effect of supersonic molecular beam injection deposition on edge localized mode mitigation in the HL-2A H-mode plasmas", Physics of Plasmas, 2016, 23, 012515
5. Chun Guo Zhang, **Qun Chao Fan**, Zhi Xiang Fan, Hui Dong Li, and Jia Fu, "High-lying vibrational energies and analytical potential energy functions for some electronic states of diatomic ions", J. Theore. and Computa. Chem., 2016, 15(2), 1650014
6. 郑小丰, **樊群超#**, 孙卫国#, 范志祥, 张焱, 付佳, 李博, 用差分收敛法研究NaLi分子部分电子态的完全振动能谱, 物理学报, 2015, 64(20): 203301.
7. Yonghong Jiang, Weiguo Sun, Yi Zhang, Jia Fu, **Qunchao Fan**, Huidong Li and Hao Feng, "Prediction of P-branch emission spectral lines of NaF and 63 Cu 35 Cl molecules" Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 2016, 153: 87-93.
8. **Qunchao Fan**, Zhixiang Fan, Yanping Nie, Weiguo Sun, Yi Zhang, and Hao Feng, "Analytical potential energy functions for some interhalogen diatomic electronic states", Eur. Phys. J. D, 2015, 69: 30.
9. Song Lia, Rui Zheng, Shanjun Chen and **Qunchao Fan**, "Theoretical study of LiCl- and LiBr- molecular ions" Molecular Physics, 2015 (ahead-of-print): 1-9.
10. Zhixiang Fan, **Qunchao Fan**, Yanping Nie, Weiguo Sun, Yi Zhang, Li Yuan, and Hao Feng, "Analytical potential energy functions for the ground and some excited states of N₂", Mole. Phys., 2014, 112(20), 2665-2671.
11. Yuan Li, **Fan Qunchao**, Sun Weiguo, Fan Zhixiang, and Feng Hao, "Studies on the analytical curves of diatomic molecules using algebraic and energy-consistent method", Acta Phys. Sin., 2014, 63(4), 043102.
12. **Qunchao Fan**, Hao Feng, Weiguo Sun, Yaoming Xie, and R. Bruce King, "Metal chains versus metal triangles in trinuclear trimethylenemethane iron carbonyls related to Fe₃(CO)₁₂", Polyhedron, 2014, 72, 110-114.
13. **Qunchao Fan**, Weiguo Sun, Hao Feng, Yi Zhang, and Qi Wang, "Analytical potential curves of some hydride molecules using algebraic and energy-consistent method", Eur. Phys. J. D, 2014, 68(1): 1-6.
14. Weiguo Sun, Yi Zhang, **Qunchao Fan**, Hao Feng, Jia Fu, Huidong Li, Jie Ma, Liantuan Xiao, Suotang Jia, "Hidden physics in molecular rovibrational spectrum", Spectrochim. Acta Part A, 2014, 132, 32-37.
15. Yi Zhang, Weiguo Sun, Jia Fu, **Qunchao Fan**, Jie Ma, Liantuan Xiao, Suotang Jia, Hao Feng, and Huidong Li, "A variational algebraic method used to study the full vibrational spectra and dissociation energies of some specific diatomic systems", Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 2014, 117: 442-448.
16. Peng Wu, Yi Zeng, **Qunchao Fan**, Hao Feng, Yaoming Xie, R. Bruce King and Henry F. Schaefer, "Flyover Compounds and Bridging Bent Benzene Derivatives as Intermediates in the Cobalt Carbonyl Cyclootrimerization of Alkynes". Organometallics, 2014, 33(9): 2352-2357.
17. Jia Fu, Weiguo Sun, Yonghong Jiang, **Qunchao Fan**, Yi Zhang and Zhanwen Zhang, "A molecular based kinetic study on the thermal decomposition of poly- α -methyl styrene" Polymer Degradation and Stability, 2014, 110: 415-421.
18. Jia Fu, Weiguo Sun, **Qunchao Fan** and Yi Zhang, "A detailed bond stretch model of thermal decomposition" IOP Conference Series: Materials Science and Engineering. IOP Publishing, 2014, 62(1): 012020.
19. Huidong Li, Hao Feng, Weiguo Sun, **Qunchao Fan**, R. Bruce King, and Henry F. Schaefer, "First-Row Transition Metals in Binuclear Cyclopentadienylmetal Derivatives of Tetramethyleneethane: η^3 , η^3 versus η^4 , η^4 Ligand-Metal Bonding Related to Spin State and Metal-Metal Bonds". Organometallics, 2014, 33(13): 3489-3499.
20. **Qunchao Fan**, Hao Feng, Weiguo Sun, Yaoming Xie, Chia-Hua Wu, Wesley D. Allen, and Henry F. Schaefer III, "The Li.....HF van der Waals minimum and the barrier to the deep HF-Li potential well", Molecular Physics, 2014, 112, 770-773.
21. Huidong Li, Hao Feng, Weiguo Sun, **Qunchao Fan**, R. Bruce King and Henry F. Schaefer, "Modeling intermediates in carbon monoxide coupling reactions using cyclooctatetraene thorium derivatives", New Journal of Chemistry, 2014, 38(12), 6031-6040.
22. Song Li, Shanjun Chen, Desheng Zhu and **Qunchao Fan**, "Theoretical study on the ground electronic state of SCI+ and SCI" Computational and Theoretical Chemistry, 2013, 1017: 136-143.
23. **Qunchao Fan**, Huidong Li, Hao Feng, Weiguo Sun, Tongxiang Lu, Andrew C. Simmonett, Yaoming Xie, and Henry F. Schaefer III, "New potential energy surface features for the Li+HF LiF+H reaction", J. Phys. Chem. A, 2013, 117, 10027-10033.
24. Fu Jia, **Fan Qunchao**, Sun Weiguo, Hu Shi, and Jiang Yonghong, "Studies on the R-branch emission spectral lines of VN molecules", Acta Phys. Sin., 2013, 62(23), 233301.

25. **Qunchao Fan**, Shi Hu, Weiguo Sun ,Qi Wang, "The emission spectroscopy of the $e^1\Pi-a^1\Delta$ system of VN molecule" , Spectrochim. Acta Part A, 2013, 114, 357-359.
26. **Qunchao Fan**, Hao Feng, Weiguo Sun, Li Huidong, Yaoming Xie, R. Bruce King and Henry F. Schaefer III, "The umbrella-shaped trimethylenemethane ligand in binuclear chromium carbonyl complexes" , Journal of Organometallic Chemistry, 2013, 730, 69-78.
27. **Fan Qunchao**, Liu Weining, Feng Hao, Sun Weiguo, Hu Shi, "The emission spectroscopy of the $^2\Phi_{5/2}-1^2\Delta_{3/2}$ system of VO molecule" , Spectrochim. Acta Part A, 2013, 105,474-476.
28. **Fan Qunchao**, Feng Hao, Sun Weiguo, Li Huidong, Xie Yaoming, King R. Bruce, Schaefer. Henry F. III, "A new type of sandwich compound: homoleptic bis(trimethylenemethane) complexes of the first row transition metals" , New Journal of Chemistry, 2013, 37(5),1545-1553.
29. Qi Wang, Weiguo Sun, **Qunchao Fan**, "The P-branch and R-branch emission spectral lines in the system of NbN" , Spectrochim. Acta Part A, 2013, 114, 51-54.
30. Jie Ma, Jizhou Wu, Gang Chen, **Qunchao Fan**, Hao Feng, Xingcan Dai, Weiguo Sun, Liantuan Xiao, and Suotang Jia, "Experimental Determination of the Rotational Constants of High-Lying Vibrational Levels of Ultracold Cs_2 in the 0_g^- Purely Long-Range State" , The Journal of Physical Chemistry Letters, 2013, 4(21): 3612-3617.
31. Ma Jie, Li Yuqing, Wu Jizhou, **Fan Qunchao**, Feng Hao, Sun Weiguo, Xiao Liantuan, and Jia Suotang, "Reanalysis of the photoassociation spectrum of 133Cs_2 ($6P_{3/2}$) 1g state" Chinese Physics B, 2013, 22(8): 083302.
32. Li Huidong, Feng Hao, Sun Weiguo, **Fan Qunchao**, "Diverse bonding modes of the tetramethyleneethane ligand in binuclear iron carbonyl derivatives" , New Journal of Chemistry, 2013, 37(3), 709-716.
33. Huidong Li, Hao Feng, Weiguo Sun, **Qunchao Fan**, Yaoming Xie, R. Bruce King and Henry F. Schaefer, "Bis (heptalene) "submarine" metal dimer sandwich compounds ($\text{C}_{12}\text{H}_{10}$) 2M_2 (M= Ti, V, Cr, Mn, Fe, Co, Ni)" , Journal of molecular modeling, 2013, 19(7): 2723-2737
34. Huidong Li, Hao Feng, Weiguo Sun, Yi Zhang, **Qunchao Fan**, Kirk A. Peterson and Yaoming Xie., "The alkaline earth dimer cations (Be^{2+} , Mg^{2+} , Ca^{2+} , Sr^{2+} , and Ba^{2+}). Coupled cluster and full configuration interaction studies" , Molecular Physics, 2013, 111(14-15): 2292-2298.
35. Xu Yonggen, Wang Shijian, **Fan Qunchao**, Ma Zairu, "Comparative research of multichannel slab and discharge tube CO_2 lasers" , Applied Optics, 2013, 52(14), 3298-3304.
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37. Zhang Yi, Sun Weiguo, Fu Jia, **Fan Qunchao**, Ma Jie, Xiao Liantuan, Jia Suotang, Feng Hao, Li Huidong, "Dealing with the hidden unphysical constraint and the butterfly effect in spectrum computations" , Journal of Quantitative Spectroscopy & Radiative Transfer, 2013, 120, 81-89.
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39. **Qunchao Fan**, Hao Feng, Weiguo Sun, Yaoming Xie, R. Bruce King and Henry F. Schaefer III, "The Umbrella-Shaped Trimethylenemethane Ligand in Iron Carbonyl Chemistry: Comparison with Butadiene and Cyclobutadiene Analogues" , Organometallic, 2012, 31(9), 3610-3619.
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41. **Qunchao Fan**, Hao Feng, Weiguo Sun, Yi Zeng, Yaoming Xie and R. Bruce King, "Open Chains versus Closed Rings: Comparison of Binuclear Butadiene Cobalt Carbonyls with Cyclic Hydrocarbon Analogs" , Inorganica Chimica Acta, 2012, 388, 22-32.
42. **Qunchao Fan**, Qi Wang, Weiguo Sun, Huidong Li and Hao Feng, "The P-branch emission spectral lines in the $[12.8] ^2\Phi_{7/2}-a^2\Phi_{7/2}$ system of TiCl " , Spectrochim. Acta Part A, 2012, 87, 199-201.
43. **Qunchao Fan**, Weiguo Sun, Huidong Li and Hao Feng, "Studies on the P-branch emission spectroscopy of the $A^1\Pi-X^1\Sigma^+$ system of IrN " , Chinese Physics B, 2012, 21(2), 023301.
44. Qi Wang, **Qunchao Fan***, Weiguo Sun, and Hao Feng, "Studies on P-branch emission spectral lines in $d^1\Sigma^+ - b^1\Sigma^+$ electronic state transition of NbN molecule" , Chinese Journal of Physics, 2012, 50(3), 434.
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46. Xu Yonggen, Wang Shijian, **Fan Qunchao**, "Property study of coherent annular beam generated by the annular phase-locking laser" , Optics and Laser Technology, 2012, 44(5), 1480-1484.
47. 王琪, **樊群超***, 孙卫国, 冯灏, "精确研究NbN分子电子态跃迁的P线系发射光谱" , 物理学报, 2012, 61(4).
48. **Qunchao Fan**, Weiguo Sun, Huidong Li and Hao Feng, "Studies on rovibrational energies in the ground state of nitrogen molecule using an algebraic approach" , Indian Journal of Physics, 2012, 86(4), 237-243.
49. Zhang Yi, Sun Wei-Guo, Fu Jia, **Fan Qunchao**, Feng Hao, Li Hui-Dong, "Investigations of vibrational levels and dissociation energies of diatomic systems using a variational algebraic method" , Acta Physica Sinica, 2012.07, 61(13), 114-121.
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54. 付佳, 孙卫国, 李会东, **樊群超**, 张*, 冯灏, "精确预言双原子分子Q线系高振转激发态的跃迁谱线" , Spectroscopy and Spectral Analysis, 2012, 4(1), 865-870.
55. Li Huidong, Feng Hao, Sun Weiguo, **Fan Qunchao**, Xie Yaoming, King R. Bruce, Schaefer Henry F. III, "Tetramethyleneethane as a Bis(allylic) Ligand: 16-Electron Cobalt Configurations in Preference to Cobalt-Cobalt Bonding" , Organometallics, 2012, 31(7), 2887-2894.
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57. 李会东, 孙卫国, **樊群超**, 冯灏, " Cl_2^+ 离子R支跃迁光谱的理论研究" , Acta Physica Sinica, 2012, 9, 144-152.
58. Weiguo Sun, **Qunchao Fan**, Huidong Li and Hao Feng, "Studies on the P-branch spectral lines of rovibrational transitions of diatomic

system", Spectrochim. Acta Part A, 2011, 79, 35-38.

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60. **Qunchao Fan**, Weiguo Sun, Huidong Li and Hao Feng, "Studies on the full vibrational energies and dissociation energies of some electronic states of Kr_2^+ and Xe_2^+ diatomic molecular ions", Physica Scripta, 2011, 83, 025304.
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74. Sun Weiguo, **Fan Qunchao** and Ren Weiyi, "Accurate studies on dissociation energies of diatomic molecules", Sci. in China Ser. G, 2007, 50(5), 611-621.

教学工作

自何年何月	至何年何月	讲授课程名称及其它教学任务	学生人数	理论学时	当量学时
2011.09	2011.12	《原子物理学》	76	48	77
2012.09	2012.12	《原子物理学》	86	48	82
2013.02	2013.06	《原子分子结构理论》	5	32	32
2013.09	2013.12	《原子物理学》	61	48	67
2014.09	2014.12	《原子物理学》	67	48	73
2015.09	2015.12	《原子物理学》	65	48	71
20					

荣誉奖励

荣誉名称	授予部门	时间
四川省杰出青年学术技术带头人	四川省科技厅	2012年05月
第十批四川省学术和技术带头人后备人选	四川省委组织部、人事厅、教育厅	2013年05月
第三届青年教师讲课比赛二等奖	西华大学	2012年05月
第三届优秀教学成果奖二等奖	西华大学	2012年10月
科研工作“突出贡献奖”	西华大学	2011年09月
2012年度科研工作先进个人	西华大学	2013年06月
科研工作“突出贡献奖”	西华大学	2013年09月
2013年度科研工作先进个人	西华大学	2014年06月
“优秀共产党员”称号	西华大学	2016年07月
第四届优秀教学成果奖三等奖	西华大学	2016年12月
优秀教师	西华大学	2017年07月

社会兼职

起止年月	学术、技术组织名称	职务
2009.07-现在	中国物理学会	会员
2009.07-现在	四川省物理学会	会员
2013.01-现在	《Spectrachimica acta Part A》	审稿专家
2011.01-现在	《Chinese Physics B》	审稿专家
2013.05-现在	省委组织部、教育厅、人事厅	第十批四川省学术和技术带头人后备人选
2012.05-现在	四川省青年科技基金会	四川省杰出青年学术技术带头人培育人选