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罗嗣佐 (副教授) 赞20

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副教授



个人简介

教育经历：

2010/09-2015/06, 吉林大学, 原子分子与物理研究所, 博士, 导师: 丁大军 2006/09-2010/06, 吉林大学, 物理学院, 学士

工作经历：

2017/10-至今, 吉林大学, 原子与分子物理研究所, 副教授

2015/09-2017/09, 吉林大学, 原子分子与物理研究所, 讲师

在博士和参加工作期间共参与多项国家自然科学基金面上及重点项目和重大研究计划项目, 发表SCI论文30余篇。参加AISAMP和IEPEAC等国际学术会议多次, 并在成像技术在原子与分子中的应用研讨会和物理年会秋季会议中做过多次口头报告和邀请报告。担任J. Phys. B, J. Phys. Chem A, Chin. Phys. B等杂志的审稿人。

欢迎相关领域的专家学者交流合作, 也欢迎有志之士加入我们的科研团队。

1、发表论文：

2020年

30. Xinning Zhao, Xitao Yu, Xinpeng Xu, Zhongyu Yin, Jiaqi Yu, Xiaokai Li, Pan Ma, Dongdong Zhang, Chuncheng Wang, **Sizuo Luo***, and Dajun Ding*, Ultrafast dissociation dynamics of singly and doubly ionized N₂O in strong laser fields, Phys. Rev. A 101, 013416 (2020).

29. Wenhui Hu, Xing Li, Hongxue Zhao, Wankai Li, Yue Lei, Xiangzheng Kong, Aihua Liu, **Sizuo Luo*** and Dajun Ding*, Sub-optical-cycle electron dynamics of NO molecules: the effect of strong laser field and Coulomb field, *J. Phys. B* 53, 084002 (2020).

28. Jiaqi Yu , Xitao Yu , Xinning Zhao, Zhongyu Yin, Xiaokai Li, Pan Ma, Chuncheng Wang, **Sizuo Luo*** and Dajun Ding*, Revealing orbital dependent quantum interference of O₂ underlying channel-resolved strong-field spectroscopies, *J. Phys. B* 53, 085601 (2020).

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27. Yong Liu, Wenhui Hu, **Sizuo Luo***, Kai-Jun Yuan*, Zhigang Sun, André D. Bandrauk, and Dajun Ding*, Vibrationally resolved above-threshold ionization in NO molecules by intense ultrafast two-color laser pulses: An experimental and theoretical study, *Phys. Rev. A* 100, 023404 (2019).

26. Xiaokai Li, Jiaqi Yu, Huiying Xu, Xitao Yu, Yizhang Yang, Zhenzhen Wang, Pan Ma, Chuncheng Wang, Fuming Guo, Yujun Yang, **Sizuo Luo***, and Dajun Ding*, Multiorbital and excitation effects on dissociative double ionization of CO molecules in strong circularly polarized laser fields”, *Phys. Rev. A* 100, 013415 (2019).

25. Chuncheng Wang, Xiaokai Li, Xiang-Ru Xiao, Yizhang Yang, **Sizuo Luo**, Xitao Yu, Xinpeng Xu, Liang-You Peng*, Qihuang Gong, and Dajun Ding*, Accurate in situ measurement of ellipticity based on subcycle ionization dynamic, *Phys. Rev. Lett.* 122, 013203 (2019).

24. Wenhui Hu, Yong Liu, **Sizuo Luo***, Xing Li, Jiaqi Yu, Xiaokai Li, Zhigang Sun, Kai-Jun Yuan*, André D. Bandrauk, and Dajun Ding*, Coherent interference of molecular electronic states in NO by two-color femtosecond laser pulses”, *Phys. Rev. A* 99, 011402(R) (2019).

23. **Sizuo Luo***, Zhou Chen, Xiaokai Li, Zhan Hu, Dajun Ding, Controlling quantum states of atoms and molecules by ultrafast femtosecond laser fields, *Acta Optica sinica*, 39, 0126007 (2019).
22. Qinxin Wang, Dandan Shi, Junfeng Zhang, Xue Wang, Yu Si, Chunbin Gao, Jian Fang, **Sizuo Luo***, Channel-resolved ultrafast dissociation dynamics of NO₂ molecules studied via femtosecond time-resolved ion imaging, *Chin. J. Chem. Phys.* 32, 292 (2019).
21. Pan Ma, Chuncheng Wang, **Sizuo Luo**, Xiaokai Li, Wenhui Hu, Jiaqi Yu, Xitao Yu, Xu Tian, Zexing Qu, and Dajun Ding, Bond-breakage-dependent dissociative ionization of an asymmetric molecule in an intense femtosecond laser field, *Phys. Rev. A* 99, 023423 (2019).
20. Le-Le Song, Ya-Nan Sun, Yan-Hui Wang, Xiao-Chun Wang, Lan-Hai He, **Si-Zuo Luo**, Wen-Hui Hu, Qiu-Nan Tong, Da-Jun Ding, FuChun Liu, Photoelectron imaging of resonance-enhanced multiphoton ionization and above-threshold ionization of ammonia molecules in a strong 800-nm laser pulse, *Chin. Phys. B* 28, 063201 (2019).
19. Le-Le Song, Yan-Hui Wang, Xiao-Chun Wang, Hong-Tao Sun, Lan-Hai He, **Si-Zuo Luo**, Wen-Hui Hu, Dong-Xu Li, Wen-Hui Zhu, Ya-Nan Sun, Da-Jun Ding, FuChun Liu, Imaging alignment of rotational state-selected CH₃I molecule, *Chin. Phys. B* 28, 023101 (2019).

2018年

18. **Sizuo Luo**, Shushan Zhou, Wenhui Hu, Jiaqi Yu, Xiaokai Li, Pan Ma, Lanhai He, Chuncheng Wang, Fuming Guo, Yujun Yang, and Dajun Ding*, Identifying the multielectron effect on chemical bond rearrangement of CH₃Cl molecules in strong laser fields, *J. Phys. Chem. A* 122, 8427 (2018).
17. Qinxin Wang, Libo Wu, Jianping Xu, Shuqing Ma, Liyan Zhao, **Sizuo Luo***, Ab-initio classical trajectory study the dissociation of ClN₃:The pathway lead to cyclic-N₃, *Chemical Physics Letters*, 710, 6-10 (2018).
16. Pan Ma, Chuncheng Wang, Sizuo Luo, Xitao Yu, Xiaokai Li, Zhenzhen Wang, Wenhui Hu, Jiaqi Yu,

Yizhang Yang, Xu Tian, Zhonghua Cui and Dajun Ding, Comparison study for multiple ionization of carbonyl sulfide by linearly and circularly polarized intense femtosecond laser fields using Coulomb explosion imaging, *J. Phys. B* 51, 094002 (2018).

2017年

15. **Sizuo Luo**, Shushan Zhou, Wenhui Hu, Xiaokai Li, Pan Ma, Jiaqi Yu, Ruihan Zhu, Chuncheng Wang, Fuchun Liu, Bing Yan, Aihua Liu, Yujun Yang, Fuming Guo, and Dajun Ding, [Multiorbital effects in strong-field ionization and dissociation of aligned polar molecules \$\text{CH}_3\text{I}\$ and \$\text{CH}_3\text{Br}\$](#) , *Phys. Rev. A* **96**, 063415 (2017).

14. Jiaqi Yu, Wenhui Hu, Xiaokai Li, Pan Ma, Lanhai He, Fuchun Liu, Chuncheng Wang, **Sizuo Luo*** and Dajun Ding*, Contribution of resonance excitation on ionization of OCS molecules in strong laser fields, *J. Phys. B* 50, 235602 (2017).

13. Xiaokai Li, Chuncheng Wang, Zongqiang Yuan, Difa Ye, Pan Ma, Wenhui Hu, **Sizuo Luo**, Libin Fu, and Dajun Ding, [Footprints of electron correlation in strong-field double ionization of Kr close to the sequential-ionization regime](#), *Phys. Rev. A* **96**, 033416 (2017).

12. **Sizuo Luo***, Wenhui Hu, Jiaqi Yu, Xiaokai Li, Lanhai He, Chuncheng Wang, Fuchun Liu, and Dajun Ding, Multielectron Effects in the Strong Field Sequential Ionization of Aligned CH_3I Molecules. *J. Phys. Chem. A* 121, 6547–6553 (2017).

11. P. Ma, C. Wang, X. Li, X. Yu, X. Tian, W. Hu, J. Yu, **S. Luo***, and D. Ding*, Ultrafast proton migration and Coulomb explosion of methyl chloride in intense laser fields, *J. Chem. Phys.* 146, 244305 (2017).

10. D. Zhang, **S. Luo**, H. Xu, M. Jin, F. Liu, B. Yan, Z. Wang, H. Liu, D. Jiang, A. Eppink, W. Roeterdink, S. Stolte, and D. Ding*, Dissociative ionization and Coulomb explosion of CH_3I in intense femtosecond laser fields, *Eur. Phys. J. D* 71, 148 (2017).

9. **Sizuo Luo***, Wenhui Hu, Jiaqi Yu, Ruihan Zhu, Lanhai He, Xiaokai Li, Pan Ma, Chuncheng Wang, Fuchun Liu, Wim G. Roeterdink, Steven Stolte, and Dajun Ding, Rotational Dynamics of Quantum State-Selected Symmetric-Top Molecules in Nonresonant

Femtosecond Laser Fields. *J. Phys. Chem. A* **121**, 777 (2017).

2016年

8. Lanhai He, Yun Pan, Yujun Yang, **Sizuo Luo**, Chunjing Lu, Huifang Zhao, Dongxu Li, Lele Song, Steven Stolte, Dajun Ding, Wim G. Roeterdink, Ion yields of laser aligned CH₃I and CH₃Br from multiple orbitals, *Chem. Phys. Lett.* **665**, 141 (2016).

7. Qinxin Wang, **Sizuo Luo**, Zhou Chen, Hongxia Qi, Jiannan Deng, Zhan Hu. Drilling of aluminum and copper films with femtosecond double-pulse laser. *Opt. Laser. Technol.* **80**, 116 (2016).

2015年

6. **Sizuo Luo**, Ruihan Zhu, Lanhai He, Wenhui Hu, Xiaokai Li, Pan Ma, Chuncheng Wang, Fuchun Liu, Wim G. Roeterdink, Steven Stolte, and Dajun. Ding, Nonadiabatic laser-induced orientation and alignment of rotational-state-selected CH₃Br molecules. *Phys. Rev. A* **91**, 053408 (2015).

5. L. He, J. Bulthuis, **S. Luo**, J. Wang, C. Lu, S. Stolte, D. Ding and W. G. Roeterdink, Laser induced alignment of state-selected CH₃I. *Phys. Chem. Chem. Phys.* **17**, 24121 (2015).

4. Zhang Mei-Xia, Yan Bing, Yang Yu-Jun, **Luo Si-Zuo**, Zhu Rui-Han, Yang Xue, and Ding Da-Jun. Theoretical approach to the study of vibrational effects on strong field ionization of molecules with alignment-dependent tunneling ionization rates. *Chin. Phys. B* **24**, 093302 (2015).

2011-2014年

3. C. Wang, Y. Tian, **S. Luo**, W. G. Roeterdink, Y. Yang, D. Ding, M. Okunishi, G. Prümper, K. Shimada, K. Ueda and R. Zhu. *Phys. Rev. A* **90**, 023405 (2014).

2. Ruihan Zhu, Chuncheng Wang, **Sizuo Luo**, Xue Yang, Meixia Zhang, Fuchun Liu, Dajun Ding*, Role of rotational state-selected for nonadiabatic alignment: OCS molecules in femtosecond laser fields, *Front. Phys.*, **8**, 236(2013).

1. Zhang Dong-Dong, Ni Qiang, **Luo Si-Zuo**, Zhang Jing, Liu Hang, Xu Hai-Feng, Jin Ming-Xing, Ding Da-Jun. *Chin. Phys. Lett.* **28**, 033301(2011).

2、会议报告及论文：

1. 线偏振双色场激光作用下原子分子的强场电离；报告人：罗嗣佐（2016年物理年会秋季会议邀请报告）
2. 分子非绝热准直和取向及其在飞秒激光场中电离解离；报告人：罗嗣佐（2015年物理年会秋季会议报告）
3. 离子速度成像技术探测分子转动波包；报告人：罗嗣佐（第六届成像技术在原子与分子中的应用研讨会）
4. **Sizuo Luo**, Yujun Yang, Fuming Guo, Chuncheng Wang, Dajun Ding, Tunneling Ionization of Aligned CH_3X ($\text{X}=\text{I}, \text{Br}, \text{Cl}$) Molecules in Intense Femtosecond Laser Fields. *Journal of Physics: Conference Series* **635**, 112071 (2015).
5. **Sizuo Luo**, Lanhai He, Xiaokai Li, Wenhui Hu, Pan Ma, Chuncheng Wang and Dajun Ding, H_n^+ Ejection from Aligned CH_3Cl Molecules in Intense fs Laser Fields. *Journal of Physics: Conference Series* **635**, 112019 (2015).
6. Jiaqi Yu, Wenhui Hu, Lanhai He, Chuncheng Wang, **Sizuo Luo**, and Dajun Ding, Contribution of resonance excitation on ionization of OCS molecules in strong laser field. *Journal of Physics: Conference Series* **875**, 032030 (2017).

3、获奖情况：

- 2014 Best poster award of 11th Asian International Seminar on Atomic and Molecular Physics (AISAMP11, 日本仙台).
2013年秋季物理年会最佳海报奖（CPS2013, 厦门）.

4、专著：

1. Dajun Ding, Chuncheng Wang, Dongdong Zhang, Qiaoqiao Wang, Di Wu, **Sizuo Luo**, Reaction and Ionization of Polyatomic Molecules Induced by Intense Laser Pulses, in *Advances in Multiphoton Processes and Spectroscopy*, Vol. 21, pp.118-151, eds by Sheng. H. Lin and A. Villayes (World Scientific Publishing, 2014).

5、科普文章：

1. 罗嗣佐、刘福春、丁大军，从随机到取向——分子转动动力学的超快调控，*物理* 44卷9-15页（2015年）；
2. 郭昂、罗嗣佐、丁大军 玻尔的分子模型——一个世纪之后（编译），*物理* 43卷54-56页（2014年）；

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[2] 强激光作用下原子和分子的电离、解离；

[3] 原子分子量子态超快调控研究

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