周晓国

<https://dcp.ustc.edu.cn/2013/1209/c4441a39461/page.htm>

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出生: 1976.03, 甘肃兰州

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EDUCATION AND RESEARCH EXPERIENCE

2021- 中国科学技术大学化学物理系，教授

2004-2021　　 中国科学技术大学化学物理系，副教授

2002-2004 美国俄亥俄州立大学化学系，博士后

1997-2002 中国科学技术大学化学物理系，博士

1993-1997 中国科学技术大学化学物理系，学士

RESEARCH INTERESTS

1)

新型质谱和光谱技术的发展

2)

气相分子光电离和光解离动力学

3)

光诱导的能量转移和电子转移动力学

CURRENT RESEARCH PROJECTS

1)

乙烯基和乙炔基离子的光谱和解离动力学，国家自然科学基金面上项目(21573210)

2)

高对称性分子离子光解离动力学研究，国家自然科学基金面上项目(21373194)

3)

红外激光解离光谱-离子阱质谱联用仪器的研制与集成，国家重大科学仪器设备开发专项(2012YQ220113)

4）

重要化学键能的高精度测量，国家重点研发计划（2016YFF0200502）

REPRESENTATIVE PUBLICATIONS

1)

Q. H Zhou, M. M. Zhou, Y. X Wei, X. G. Zhou,\* et al., “Solvent Effect on Triplet-Triplet Annihilation Upconversion of diiodo-Bodipy and Perylene”, Phys. Chem. Chem. Phys. 19(2017), 1516

2)

X. K. Wu, X. G. Zhou,\* P. Hemberger, et al.,“Dissociative Photoionization of Dimethyl Carbonate: The More It Is Cut, the Bigger the fragment ion”, J. Phys. Chem. A 121(2017), 2748

3)

X. F. Tang, X. G. Zhou\*, Z. F. Sun, et al., “Dissociation of internal energy-selected methyl bromide ion revealed from threshold photoelectron-photoion coincidence velocity imaging”, J. Chem. Phys. 140 (2014), 044312

4)

X. F. Tang, X. G. Zhou\*, M. M. Wu, et al., “Dissociation limit and dissociation dynamic of CF4+: application of threshold photoelectron-photoion coincidence velocity imaging”, J. Chem. Phys. 138 (2013), 094306.

5)

X. F. Tang, X. G. Zhou\*, M. M. Wu, et al., “Dissociative photoionization of methyl chloride studied with threshold photoelectron-photoion coincidence velocity imaging”, J. Chem. Phys. 136 (2012), 034304.

6)

X. F. Tang, X.G. Zhou\*, M. M. Wu, et. al. “Direct Experimental Evidences for Dissociative Photoionization of Oxygen Molecule via 2Σu– Ionic “Optical Dark” State”, J. Phys. Chem. A 116 (2012), 9459.

7)

X. F. Tang, M. L. Niu, X. G. Zhou\*, et al., “NO+ formation pathways in dissociation of N2O+ ions at the C2Σ+ state revealed from threshold photoelectron-photoion coincidence velocity imaging”, J. Chem. Phys. 134, (2011), 054312.

8)

X. F. Tang, X. G. Zhou\*, M. L. Niu, et al., “Dissociation of Vibrational State-selected O2+ Ions in the B2Σg¯ State Using Threshold Photoelectron-photoion Coincidence Velocity Imaging”, J. Phys. Chem. A 115 (2011), 6339

9)

X. F. Tang, X. G. Zhou\*, M. L. Liu, et al., “A threshold photoelectron-photoion coincidence spectrometer with double velocity imaging using synchrotron radiation”, Rev. Sci. Instrum. 80 (2009), 113101.

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EDUCATIONAL BACKGROUND AND RESEARCH EXPERIENCE:

2021 - Present: Professor of the Department of Chemical Physics of the University of Science and Technology of China

2004 - 2021: Associate Professor of the Department of Chemical Physics of the University of Science and Technology of China

2002 - 2004: Postdoctoral Fellow of the Department of Chemistry of the Ohio State University

1997 - 2002: Ph.D. from the Department of Chemical Physics of the University of Science and Technology of China

1993 - 1997: Bachelor’s Degree from the Department of Chemical Physics of the University of Science and Technology of China

RESEARCH DIRECTIONS:

1) Development of novel mass spectrometry and spectroscopy techniques

2) Photodissociation and photoionization dynamics of gas-phase molecules

3) Photoinduced energy transfer and electron transfer dynamics

CURRENT RESEARCH PROJECTS:

1) Spectroscopy and dissociation dynamics of vinyl and ethynyl cations, General Project of the National Natural Science Foundation of China (Grant No. 21573210)

2) Study on photodissociation dynamics of high-symmetry molecular ions, General Project of the National Natural Science Foundation of China (Grant No. 21373194)

3) Development and integration of an infrared laser dissociation spectroscopy-ion trap mass spectrometer, National Key Scientific Instrument and Equipment Development Project (Grant No. 2012YQ220113)

4) High-precision measurement of important chemical bond energies, National Key Research and Development Program of China (Grant No. 2016YFF0200502)

REPRESENTATIVE PUBLICATIONS:

1) Q. H Zhou, M. M. Zhou, Y. X Wei, X. G. Zhou,\* et al., “Solvent Effect on Triplet-Triplet Annihilation Upconversion of diiodo-Bodipy and Perylene”, Phys. Chem. Chem. Phys. 19(2017), 1516

2) X. K. Wu, X. G. Zhou,\* P. Hemberger, et al.,“Dissociative Photoionization of Dimethyl Carbonate: The More It Is Cut, the Bigger the fragment ion”, J. Phys. Chem. A 121(2017), 2748

3) X. F. Tang, X. G. Zhou\*, Z. F. Sun, et al., “Dissociation of internal energy-selected methyl bromide ion revealed from threshold photoelectron-photoion coincidence velocity imaging”, J. Chem. Phys. 140 (2014), 044312

4) X. F. Tang, X. G. Zhou\*, M. M. Wu, et al., “Dissociation limit and dissociation dynamic of CF4+: application of threshold photoelectron-photoion coincidence velocity imaging”, J. Chem. Phys. 138 (2013), 094306.

5) X. F. Tang, X. G. Zhou\*, M. M. Wu, et al., “Dissociative photoionization of methyl chloride studied with threshold photoelectron-photoion coincidence velocity imaging”, J. Chem. Phys. 136 (2012), 034304.

6) X. F. Tang, X.G. Zhou\*, M. M. Wu, et. al. “Direct Experimental Evidences for Dissociative Photoionization of Oxygen Molecule via 2Σu– Ionic “Optical Dark” State”, J. Phys. Chem. A 116 (2012), 9459.

7) X. F. Tang, M. L. Niu, X. G. Zhou\*, et al., “NO+ formation pathways in dissociation of N2O+ ions at the C2Σ+ state revealed from threshold photoelectron-photoion coincidence velocity imaging”, J. Chem. Phys. 134, (2011), 054312.

8) X. F. Tang, X. G. Zhou\*, M. L. Niu, et al., “Dissociation of Vibrational State-selected O2+ Ions in the B2Σg¯ State Using Threshold Photoelectron-photoion Coincidence Velocity Imaging”, J. Phys. Chem. A 115 (2011), 6339

9) X. F. Tang, X. G. Zhou\*, M. L. Liu, et al., “A threshold photoelectron-photoion coincidence spectrometer with double velocity imaging using synchrotron radiation”, Rev. Sci. Instrum. 80 (2009), 113101.