姓　名: 田善喜

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出生年月: 1973年6月出生于安徽

地　址: 中国科学技术大学化学物理系（230026）

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教育与科研经历

2004年至今　　 中国科学技术大学，化学院副教授、教授、博导，双聘于合肥微尺度物质科学国家实验室（筹）

2009年8月　　 奥地利茵斯布鲁克大学离子物理研究所，中科院高级访问学者

2003年-2004年 美国加州大学戴维斯分校化学系，访问学者

2000年-2002年 日本东北大学化学，JSPS博士后

1995年-2000年 中国科学技术大学近代物理系，获原子分子物理学博士学位

1991年-1995年 安徽师范大学物理系，获理学学士学位

目前研究方向

利用离子、电子速度成像质谱技术结合量子散射从头算和分子动力学模拟，研究低能量电子贴附分子的解离动力学、离子-分子反应以及液相与界面体系的结构和动力学等内容。

目前开展的主要研究为：

1. 电子－分子共振态的形成机制与解离动力学

2. 液相体系、液－液界面、液－固界面、气－液界面的微观结构与热力学性质

3. 离子－分子反应力学

近期发表论文（\*通讯作者）

1. Fu. C. F, Tian, S. X.\* A comparative study for molecular dynamics simulations of liquid benzene, Journal of Chemical Theory and Computatio

　-n, 2011, 7, 2240

2. Wang. Y. F, Tian. S. X.\*Low-energy electron collisions with formamide using the R-matrix method, Physical Review A 2012, 85, 012706

3. Wu. B,Xia. L, Wang, Y. F., Li. H. K.; Zeng. X. J., Tian. S. X.\* Positive / negative ion velocity mapping apparatus for electron-molecule reaction

　-s, Review of Scientific Instruments 2012, 83, 013108

4. Xia. L, Zeng. X. J, Li. H. K, Wu. B., Tian. S. X.\* Orientation effect in the low-energy electron attachment to the apolar carbon tetrafluoride mole

　-cule, Angewandte Chemie, International Edition 2013, 52, 1013-1016

5. Tian. S. X.\*, Wu. B., Xia. L, Li. H. K, Zeng. X. J, Luo. Y, Yang. J. L. Coherent interference in the resonant dissociative electron attachment to

　-carbon monoxide, Physical Review A 2013, 88, 012708

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Educational Background and Scientific Research Experience:

2004 - Present: Associate Professor, Professor, and Doctoral Supervisor of the Department of Chemistry of the University of Science and Technology of China; jointly appointed at Hefei National Laboratory for Physical Sciences at the Microscale (under preparation)

August 2009: Senior Visiting Scholar at the Institute of Ion Physics of University of Innsbruck

2003 - 2004: Visiting Scholar at the Department of Chemistry of University of California, Davis

2000 - 2002: JSPS Postdoctoral Fellow at the Department of Chemistry of Tohoku University

1995 - 2000: Ph.D. in Atomic and Molecular Physics from the Department of Modern Physics of the University of Science and Technology of China

1991 - 1995: Bachelor’s Degree in Science from the Department of Physics of Anhui Normal University

Current Research Directions:

Using ion and electron velocity imaging mass spectrometry combined with quantum scattering ab initio calculations and molecular dynamics simulations to study the dissociation dynamics of low-energy electron-attached molecules, ion-molecule reactions, and the structure and dynamics of liquid phase and interfacial systems.

Main Current Research Topics:

1. Formation mechanisms and dissociation dynamics of electron-molecule resonant states

2. Microstructure and thermodynamic properties of liquid phase systems, liquid-liquid interfaces, liquid-solid interfaces, and gas-liquid interfaces

3. Ion-molecule reaction dynamics

Recent Publications (as a corresponding author):

1. Fu. C. F, Tian, S. X.\* A comparative study for molecular dynamics simulations of liquid benzene, Journal of Chemical Theory and Computation, 2011, 7, 2240

2. Wang. Y. F, Tian. S. X.\*Low-energy electron collisions with formamide using the R-matrix method, Physical Review A 2012, 85, 012706

3. Wu. B,Xia. L, Wang, Y. F., Li. H. K.; Zeng. X. J., Tian. S. X.\* Positive / negative ion velocity mapping apparatus for electron-molecule reactions, Review of Scientific Instruments 2012, 83, 013108

4. Xia. L, Zeng. X. J, Li. H. K, Wu. B., Tian. S. X.\* Orientation effect in the low-energy electron attachment to the apolar carbon tetrafluoride molecule, Angewandte Chemie, International Edition 2013, 52, 1013-1016

5. Tian. S. X.\*, Wu. B., Xia. L, Li. H. K, Zeng. X. J, Luo. Y, Yang. J. L. Coherent interference in the resonant dissociative electron attachment to carbon monoxide, Physical Review A 2013, 88, 012708