

## Chenwei Jiang

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### PROFESSIONAL EXPERIENCE

Associate Professor, Xi'an Jiaotong University	2013-present
Visiting Scholar, University of Washington	2016-2017
Assistant Professor, Xi'an Jiaotong University	2010-2012

### EDUCATION

Visiting Ph.D. Student, Texas A&M University Advisor: Professor Roland E. Allen Research project: <i>Ultrafast dynamics in molecule under laser pulse</i>	2008-2010
Ph. D., Optics, Xi'an Jiaotong University, China Advisor: Professor Fuli Li Dissertation: <i>Controlling molecular isomerization and vibration modes by use of ultrafast laser pulses</i>	2005-2010
B. Sc., Applied Physics, Xi'an Jiaotong University, China Advisor: Professor Fuli Li Senior thesis: <i>Novel Quantum Eraser Design</i>	2001-2005

### RESEARCH INTERESTS

- Nonadiabatic excited state dynamics in molecule
- Interaction between ultrafast laser pulse and molecule, to control the motion of electron or nuclei.
- Charge transfer dynamics with Real-time Time-dependent density functional theory

### PUBLICATIONS

- [1] Xiaojuan Pang, Xueyan Cui, Deping Hu, **Chenwei Jiang**, Di Zhao, Zhengggang Lan, Fuli Li. "Watching" the Dark State in Ultrafast Nonadiabatic Photoisomerization Process of a Light-Driven Molecular Rotary Motor. *Journal of Physical Chemistry A* 121, 1240 (2017).

- [2] Di Zhao, **Chenwei Jiang**, Fuli Li. Coherent control of multiphoton dynamics and high-order-harmonic generation driven by two frequency-comb fields with a relative envelope delay. *Journal of Physics B-Atomic Molecular and Optical Physics* 49, 135601 (2016).
- [3] Di Zhao, **Chenwei Jiang**, Fuli Li. Coherent control of multiphoton resonance dynamics in high-order-harmonic generation driven by two frequency-comb fields. *Physical Review A* 92, 043413 (2015).
- [4] Di Zhao, **Chenwei Jiang**, Fuli Li. Dramatic enhancement of high-order-harmonic generation via the quantum interference of dipole-transition paths. *Physical Review A* 92, 043413 (2015).
- [5] **Chenwei Jiang**, Xiuxing Zhang, Aiping Fang, Hongrong Li, Ruihua Xie, Fuli Li, Roland E. Allen. Photoisomerization dynamics of a rhodopsin-based molecule (potential molecular switch) with high quantum yields. *Physica Scripta* 90, 025401 (2015).
- [6] Di Zhao, **Chenwei Jiang**, Fuli Li. Multi-level effects in the high-order harmonic generation driven by intense frequency-comb laser fields. *Chinese Physics B* 24, 074205 (2015).
- [7] Xin Wang, Hongrong Li, Pengbo Li, **Chenwei Jiang**, Hong Gao, Fuli Li. Preparing ground states and squeezed states of nanomechanical cantilevers by fast dissipation. *Physical Review A* 90, 013838 (2015).
- [8] **Chenwei Jiang**, Xiang Zhou, Zhibin Lin, Ruihua Xie, Fuli Li, Roland E. Allen. Electronic and Structural Response of Nanomaterials to Ultrafast and Ultraintense Laser Pulses. *Journal of Nanoscience and Nanotechnology* 14, 1549-1562 (2014).
- [9] **Chenwei Jiang**, Aiping Fang, Di Zhao, Hongrong Li, Ruihua Xie, Fuli Li. Detailed Photoisomerization Dynamics of a Green Fluorescent Protein Chromophore Based Molecular Switch. *International Journal of Photoenergy* 2014, 597165 (2014).
- [10] **Chenwei Jiang**, Ruihua Xie, Fuli Li, Roland E. Allen. Ultrafast cis-to-trans photoisomerization of a bridged azobenzene through  $n\pi^*$  excitation: rotational pathway is not restricted. *Chemical Physics Letters* 521,107-112 (2012).
- [11] **Chenwei Jiang**, Xiang Zhou, Ruihua Xie, Fuli Li, Roland E. Allen. Selective control of vibrational modes with sequential femtosecond-scale laser pulses. *Chemical Physics Letters* 515, 137 (2011).
- [12] **Chenwei Jiang**, Ruihua Xie, Fuli Li, Roland E. Allen. Comparative studies of the trans-to-cis photoisomerizations of azobenzene and a bridged azobenzene. *Journal of Physical Chemistry A* 115, 244 (2011).
- [13] **Chenwei Jiang**, Xiang Zhou, Zhibin Lin, Ruihua Xie, Fuli Li, Meng Gao, Roland E. Allen. Semiclassical simulations in materials science. *Physica Status Solidi B* 248, 2008–2014 (2011).

- [14] Xiang Zhou, Zhibin Lin, **Chenwei Jiang**, Meng Gao, Roland E. Allen. Maximum relative excitation of a specific vibrational mode via optimum laser-pulse duration. *Physical Review B* 82, 075433 (2010).
- [15] **Chenwei Jiang**, Ruihua Xie, Fuli Li, Roland E. Allen. Photocyclization of trans-stilbene induced by an ultrafast laser pulse. *Chemical Physics Letters* 487, 177-182 (2010).
- [16] **Chenwei Jiang**, Ruihua Xie, Fuli Li, Roland E. Allen. Trans-to-cis isomerization of stilbene following an ultrafast laser pulse. *Chemical Physics Letters* 474, 262-267 (2009).