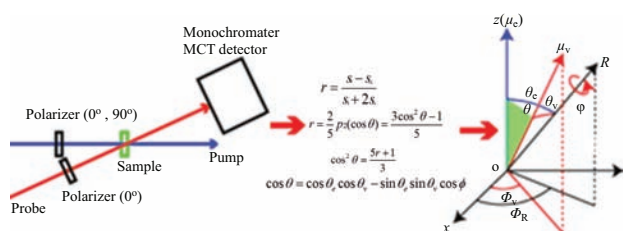


Contents

Polarization Dependent Time-Resolved Infrared Spectroscopy and Its Applications

Wen-kai Zhang*

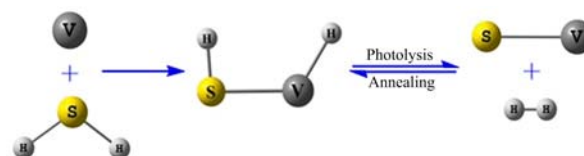
Chin. J. Chem. Phys. **29**, 1–9 (2016)



Reactions of Group V Metal Atoms with Hydrogen Sulfide: Argon Matrix Infrared Spectra and Theoretical Calculations

Jie Zhao, Bing Xu, Wen-jie Yu, Xue-feng Wang*

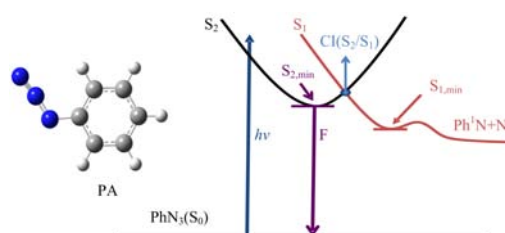
Chin. J. Chem. Phys. **29**, 10–20 (2016)



Structural Dynamics of Phenyl Azide in Light-Absorbing Excited States: Resonance Raman and Quantum Mechanical Calculation Study

Rong-dan Yuan, Jia-dan Xue, Xu-ming Zheng*

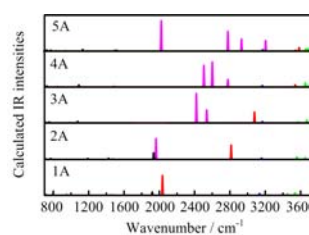
Chin. J. Chem. Phys. **29**, 21–30 (2016)



Structural and Infrared Spectroscopic Study on Solvation of Acetylene by Protonated Water Molecules

Xiang-tao Kong, Xin Lei, Qin-qin Yuan, Bing-bing Zhang, Zhi Zhao, Dong Yang, Shu-kang Jiang, Dong-xu Dai, Ling Jiang*

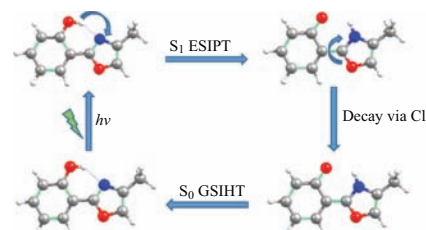
Chin. J. Chem. Phys. **29**, 31–37 (2016)



Excited-State Proton Transfer and Decay in Hydrogen-Bonded Oxazole System: MS-CASPT2//CASSCF Study

Bin-bin Xie, Chun-xiang Li, Gang-long Cui*, Qiu Fang*

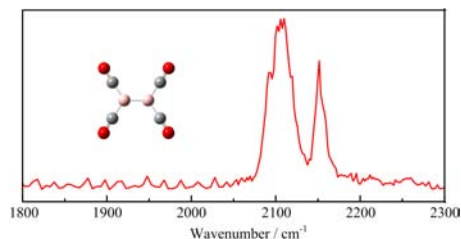
Chin. J. Chem. Phys. **29**, 38–46 (2016)



Infrared Photodissociation Spectroscopy of Boron Carbonyl Cation Complexes

Jia-ye Jin, Guan-jun Wang, Ming-fei Zhou*

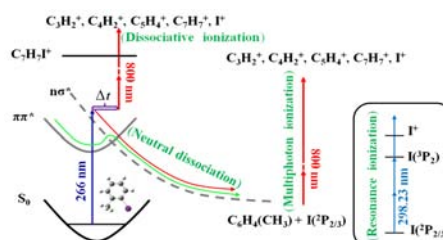
Chin. J. Chem. Phys. **29**, 47–52 (2016)



Photodissociation Dynamics of 2-Iodotoluene Investigated by Femtosecond Time-Resolved Mass Spectrometry

Zhi-ming Liu, Yan-mei Wang, Chun-long Hu, Jin-you Long, Bing Zhang*

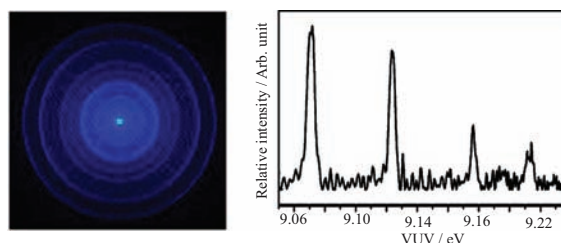
Chin. J. Chem. Phys. **29**, 53–58 (2016)



High-Resolution Threshold Photoelectron Spectroscopy by Vacuum Ultraviolet Laser Velocity-Map-Imaging Method

Zhou Lu, Hong Gao, Yun-tao Xu, Lei Yang, Chow-Shing Lam, Yanice Benitez, C. Y. Ng*

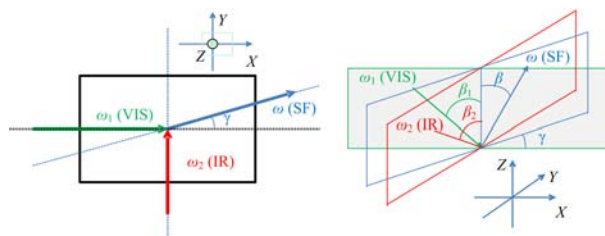
Chin. J. Chem. Phys. **29**, 59–69 (2016)



Cross-Propagation Sum-Frequency Generation Vibrational Spectroscopy

Li Fu, Shun-li Chen, Wei Gan, Hong-fei Wang*

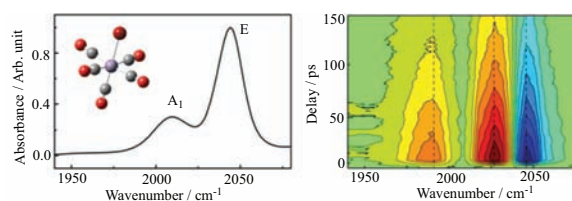
Chin. J. Chem. Phys. **29**, 70–80 (2016)



Vibrational and Structural Dynamics of Mn(CO)₅Br and Re(CO)₅Br Examined Using Nonlinear Infrared Spectroscopy

Min-jun Feng, Fan Yang, Jian-ping Wang*

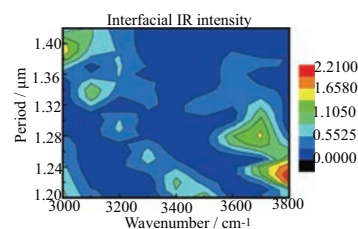
Chin. J. Chem. Phys. **29**, 81–86 (2016)



Plasmonic Field Enhancement for Vibration Spectroscopy at Metal/Water Interfaces

Zhi-hua Liu, Qian Xu, Wei-tao Liu*

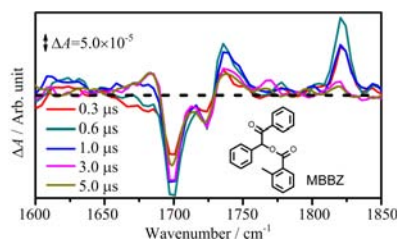
Chin. J. Chem. Phys. **29**, 87–90 (2016)



Photochemical Reaction of Benzoin Caged Compound: Time-Resolved Fourier Transform Infrared Spectroscopy Study

Xiao-juan Dai, You-qing Yu, Kun-hui Liu*, Hong-mei Su*

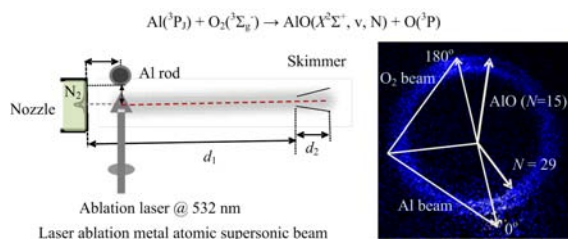
Chin. J. Chem. Phys. **29**, 91–98 (2016)



Laser Ablation Atomic Beam Apparatus with Time-Sliced Velocity Map Imaging for Studying State-to-State Metal Reaction Dynamics

Chang-wu Dong, Jia-xing Liu, Fang-fang Li, Feng-yan Wang*

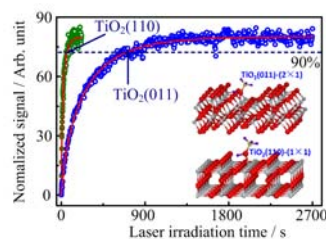
Chin. J. Chem. Phys. **29**, 99–104 (2016)



Facet Dependence of Photochemistry of Methanol on Single Crystalline Rutile Titania

Qun-qing Hao, Zhi-qiang Wang, Xin-chun Mao, Chuan-yao Zhou*, Dong-xu Dai, Xue-ming Yang*

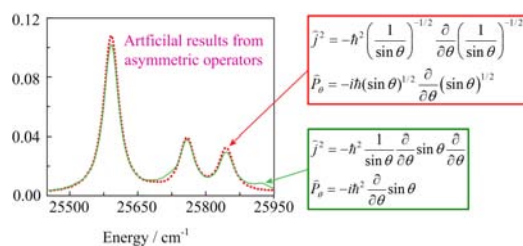
Chin. J. Chem. Phys. **29**, 105–111 (2016)



Hermiticity of Hamiltonian Matrix using the Fourier Basis Sets in Bond-Bond-Angle and Radau Coordinates

De-quan Yu, He Huang, Gunnar Nyman, Zhi-gang Sun*

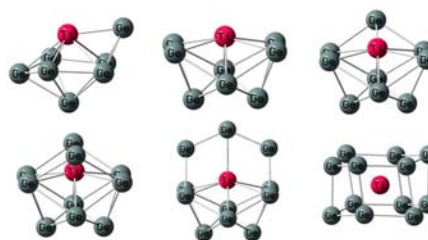
Chin. J. Chem. Phys. **29**, 112–122 (2016)



Photoelectron Spectroscopy and Density Functional Calculations of TiGe_n⁻ (n=7–12) Clusters

Xiao-jiao Deng, Xiang-yu Kong, Xi-ling Xu, Hong-guang Xu*, Wei-jun Zheng*

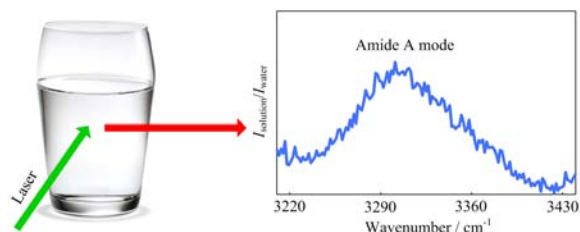
Chin. J. Chem. Phys. **29**, 123–128 (2016)



***In situ* Detection of Amide A Bands of Proteins in Water by Raman Ratio Spectrum**

Cheng-qian Tang, Ke Lin*, Xiao-guo Zhou, Shi-lin Liu*

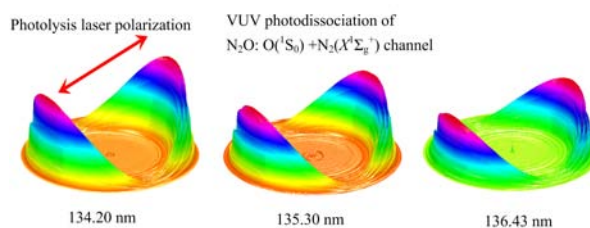
Chin. J. Chem. Phys. **29**, 129–134 (2016)



High-Resolution Experimental Study on Photodissociation of N_2O

Sheng-rui Yu, Dao-fu Yuan, Wen-tao Chen, Si-wen Wang, Xue-ming Yang*, Xing-an Wang*

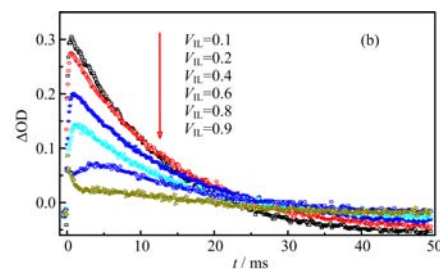
Chin. J. Chem. Phys. **29**, 135–139 (2016)



Laser Flash Photolysis Mechanism of Anthraquinone-2-Sodium Sulfonate in Pyridine Ionic Liquid/Water Mixed System

Guang-lai Zhu*, Liang-wei Zhang, Yan-cheng Liu, Zhi-feng Cui, Xin-sheng Xu, Guo-zhong Wu*

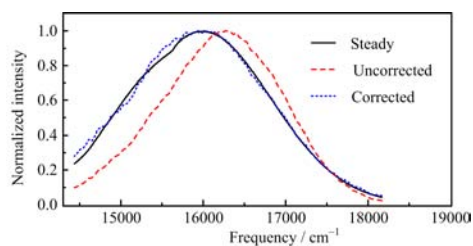
Chin. J. Chem. Phys. **29**, 140–146 (2016)



Spectrum Correction in Study of Solvation Dynamics by Fluorescence Non-collinear Optical Parametric Amplification Spectroscopy

Wei Dang, Jing-jing Bai, Lian-shui Zhang*, Yu-xiang Weng*

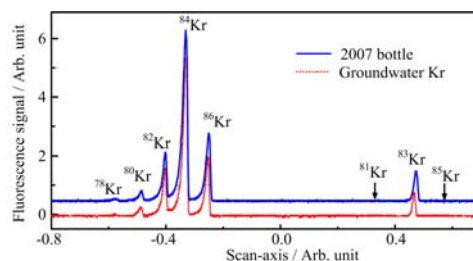
Chin. J. Chem. Phys. **29**, 147–150 (2016)



Efficient Separation of Ar and Kr from Environmental Samples for Trace Radioactive Noble Gas Detection

Le-yi Tu, Guo-min Yang, Xiang-yang Zhang, Shui-ming Hu*

Chin. J. Chem. Phys. **29**, 151–156 (2016)



Chinese Abstracts

Chin. J. Chem. Phys. **29**, 1-I (2016)