

# Chinese Journal of Chemical Physics

VOLUME 27, NUMBER 6, DECEMBER 27, 2014

## ARTICLES

- 621 **H-atom Dissociation Channels in Ultraviolet Photochemistry of *m*-Pyridyl Radical**  
Michael Lucas, Jasmine Minor, Jingsong Zhang\*, Christopher Brazier
- 628 **Dissociative Electron Attachment to 1,2-Dichlorobenzene using Mass Spectrometry with Phosphor Screen**  
Chuan-jin Xuan, Xu-dong Wang, Lei Xia, Bin Wu, Hao Li, Shan-xi Tian\*
- 631 **A Smog Chamber Facility for Qualitative and Quantitative Study on Atmospheric Chemistry and Secondary Organic Aerosol**  
Chang-jin Hu, Yue Cheng, Gang Pan, Yan-bo Gai, Xue-jun Gu, Wei-xiong Zhao, Zhen-ya Wang, Wei-jun Zhang\*, Jun Chen, Fu-yi Liu, Xiao-bin Shan, Liu-si Sheng
- 640 **Density Functional Theory Calculations on Ni–Ligand Bond Dissociation Enthalpies**  
Bing Wang, Yao Fu, Hai-zhu Yu\*, Jing Shi\*
- 647 **Asymmetry of Photoelectron Angular Distributions in Molecules by Intense Attosecond Extreme Ultraviolet Laser Pulses**  
Hua-ming Yu, Kai-jun Yuan\*, Zhi-gang Sun\*
- 653 **Negative Differential Resistance and Spin-Filtering Effects in Zigzag Graphene Nanoribbons with Nitrogen-Vacancy Defects**  
Ting Xu, Jing Huang\*, Qun-xiang Li\*
- 659 **Theoretical Study on Dissociation Potential Energy Surface of Peroxynitric Acid**  
Wen-mei Wei, Ren-hui Zheng\*, Yun-kai Wu, Fan Yang, Shi Hong
- 663 **Mesoscale Simulation of Vesiculation of Lipid Droplets**  
Rui Xu, Zi-lu Wang, Xue-hao He\*
- 672 **DFT Study on Thermodynamic Parameters of CO<sub>2</sub> Absorption into Aqueous Solution of Aliphatic Amines**  
Monireh Hajmalek, Hossein Aghaie\*, Karim Zare, Mehran Aghaie
- 679 **Droplet Pattern Formation and Translation in New Microfluidic Flow-Focusing Devices**  
Hua-guo Xu, Hao-jun Liang\*
- 685 **Effect of Surface Dangling Bonds and Molecular Passivation on Doped GaAs Nanowires**  
Jian-gong Cui\*, Xia Zhang, Yong-qing Huang, Xiao-min Ren
- 690 **Oxidative Dehydrogenation of Alkanes using Oxygen-Permeable Membrane Reactor**  
Rui-qiang Yan, Wei Liu, Chun-lin Song\*
- 697 **Effects of Supports and Promoters on *in situ* Hydrogenation of *o*-Cresol over Ni-based Catalysts**  
Yan-bin Li, Ying Xu, Long-long Ma\*, Tie-jun Wang, Qi Zhang, Guan-yi Chen
- 704 **Effect of Magnetic Field on Properties of AuPt Particles Magneto-electrodeposited on Carbon Paper**  
Jin-qiu Zhang\*, Da Li, Miao-miao Chen, Mao-zhong An, Pei-xia Yang, Peng Wang
- 711 **Conversion of Cellulose to 5-Hydroxymethylfurfural in Water-Tetrahydrofuran and Byproducts Identification**  
Ning Shi, Qi-ying Liu, Tie-jun Wang, Qi Zhang, Jun-ling Tu, Long-long Ma\*
- 718 **Electrochemical Behavior and Specific Capacitance of Polyaniline/Silver Nanoparticle/Multi-walled Carbon Nanotube Composites**  
Jia Li, Di Zhang, Jin-bao Guo, Jie Wei\*

(Contents continued on inside back cover)

(Contents continued from outside back cover)

- 725 Hydrothermal Synthesis of Disk-Like Bi<sub>2</sub>WO<sub>6</sub>-BiPO<sub>4</sub> Heterojunctions and Enhanced Photocatalytic Performance for Rhodamine B Degradation**  
Xue Lin\*, Xiao-yu Guo, Shi-duo Zhao, Xin Gao, Hong-ju Zhai, Qing-wei Wang\*, Li-min Chang
- 732 Preparation, Characterization, Photocatalytic Activity of S and Ag co-Doped Mesoporous Titania Photocatalysts**  
Shu-hua Yao, Zhi-hui Zheng, Shuang Chen, Zhong-liang Shi\*
- 739 Adsorption of Microcystin onto Polymer Covered Gold Chips by Quartz Crystal Microbalance-Dissipation Detection**  
Bin Zheng, Jian-hong Bi\*, Hua-ze Dong, Jin-miao Zhu, Hao-jun Liang\*
- i Chinese Abstracts**