

# Chinese Journal of Chemical Physics

VOLUME 24, NUMBER 1, FEBRUARY 27, 2011

## LETTER

- 1 **Experimental Determination of the Vibrational Constants of FeS( $X^5\Delta$ ) by Dispersed Fluorescence Spectroscopy**  
Li Wang, Dao-ling Huang, Jun-feng Zhen, Qun Zhang\*, Yang Chen\*

## ARTICLES

- 4 **Crossed Beams Study on the Dynamics of Cl Atom Reaction with Silane**  
Chong-fa Xiao, Guan-lin Shen, Xiu-yan Wang, Xue-ming Yang\*
- 8 **Cavity Ringdown Spectroscopy of PH<sub>2</sub> Radical in 465–555 nm**  
Dong-feng Zhao, Cheng-bing Qin, Qun Zhang, Yang Chen\*
- 16 **Theoretical Study on Decomposition of CF<sub>3</sub>OH Catalyzed by Water Dimer and Ammonia**  
Bo Long\*, Xing-feng Tan, Zheng-wen Long, Da-sen Ren\*, Wei-jun Zhang
- 22 **Nearly Free Electron State in Graphane Nanoribbon Superlattice**  
Qiao-hong Liu, Zhen-yu Li, Jin-long Yang\*
- 25 **DFT Study on Electronic Structures and Spectroscopic Properties of Oligo(silanylenediethynylanthracene)**  
Pei-bin Zhang, Xin-wei Huang, Xin Lia, Qi-wen Teng\*
- 31 **Equalized Electronegativity Based on the Valence Electrons and Its Application**  
Ya-xin Wu, Chen-zhong Cao\*, Hua Yuan
- 40 **High Brightness Blue Luminescent Material with Hole-Transporting Ability of 9-(pyren-1-yl)-9H-Carbazole**  
Xin-hua Ouyang\*, He-ping Zeng\*
- 47 **Energy Stabilities, Magnetic Properties, and Electronic Structures of Diluted Magnetic Semiconductor Zn<sub>1-x</sub>Mn<sub>x</sub>S(001) Thin Films**  
Dan Li\*, Lei Li, Chun-jun Liang, Yuan Niu
- 55 **Electrochemical Synthesis of Phenol-aniline Copolymerization Coating on 304 Stainless Steel Anodes and Coating Microstructure Analysis**  
Li-yin Bao, Rong-chun Xiong, Wen Zhang, Gang Wei\*
- 65 **Synthesis and Luminescence Property of Hierarchical Europium Oxalate Microparticles**  
Wei Zhu, You-jin Zhang\*, Hong-mei He, Zhi-yong Fang
- 70 **Oxidative Coupling of Methane over Li/MgO: Catalyst and Nanocatalyst Performance**  
Ali Farsi\*, Ali Moradi, Sattar Ghader, Vahid Shadravan
- 77 **Production of Mixed Alcohols from Bio-syngas over Mo-based Catalyst**  
Song-bai Qiu, Wei-wei Huang, Yong Xu, Lu Liu, Quan-xin Li\*
- 85 **Photocatalysis of TiO<sub>2</sub> Sheets Prepared by Templating Filter Paper**  
Qing-shuang Zhang, Qiao-ling Li\*, Jian-qiang Li, Rui Bai
- 91 **Synthesis of Various Metal/TiO<sub>2</sub> Core/shell Nanorod Arrays**  
Wei Zhu, Guan-zhong Wang\*, Xun Hong, Xiao-shuang Shen

(Contents continued on inside back cover)

(Contents continued from outside back cover)

- 97 Effect of Precipitation Method and Ce Doping on the Catalytic Activity of Copper Manganese Oxide Catalysts for CO Oxidation**  
Xue-bin Zhang, Kuo-yan Ma, Ling-hui Zhang, Guo-ping Yong, Ya Dai, Shao-min Liu\*
- 103 Preparation and Characterization of Activated Carbon Fiber from Paper**  
Zong-jian Zhang, Jia Li\*, Fu-sheng Sun, Dickon H. L. Ng, Fung-luen Kwong, Shi-quan Liu
- 109 Growth of High Magnetic  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> and Fe<sub>3</sub>O<sub>4</sub> Nanowires via an Oxide Assisted Vapor-Solid Process**  
Ming Chang\*, Nai-feng Hsu
- 115 Synthesis and Characterization of Supported CuInSe<sub>2</sub> Nanorod Arrays on Rigid Substrates**  
Zhong-wei Zhang, Ji Li, Ji-lei Liu, Chang-fei Zhu\*
- 121 Thermodynamics Properties of Oxymatrine in NaCl Solution**  
Zong-xiao Li\*, Xiao-hua Pu, Wei-wei Zhao, Yan Chen
- i Chinese Abstracts**