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分析化学

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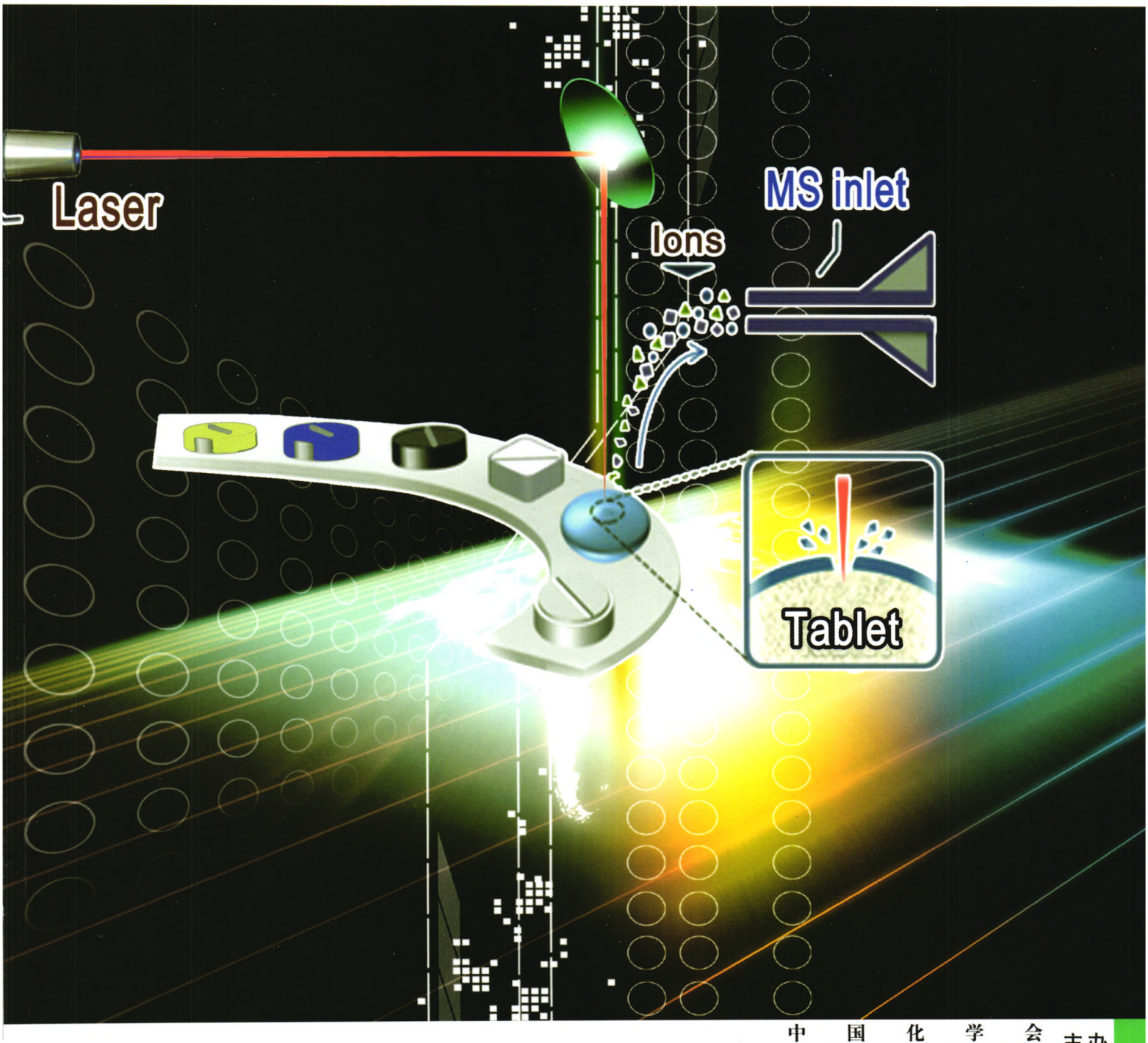

中 国 化 学 会 主办
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科 学 出 版 社 出版

分析化学

第 41 卷 第 3 期 2013 年 3 月

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(本期责任编辑:罗虎璋 编排、制图:潘文革)

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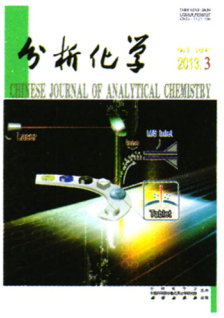
* 联系人

★ 该篇文章的英文电子版由 Elsevier 出版社在 ScienceDirect 上出版(http://www.sciencedirect.com/science/journal/18722040)

Chinese Journal of Analytical Chemistry

Cover



The cover image presents the schematic diagram of atmospheric pressure laser desorption ionization mass spectrometry (APLDI - MS). On page 366, REN et al demonstrate a method for fast and direct screening of active ingredients in drug tablets.

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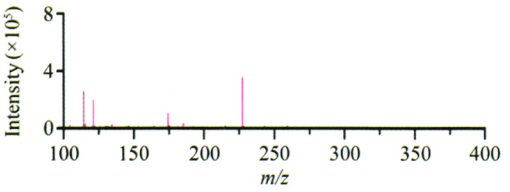
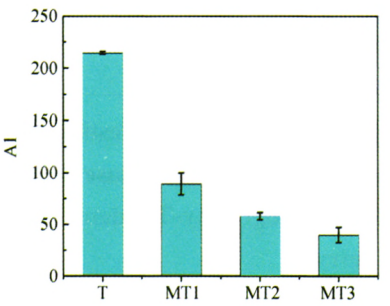
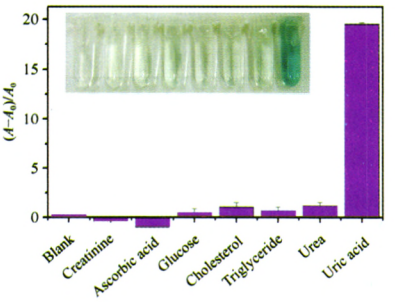
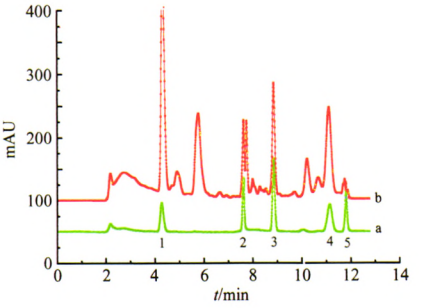
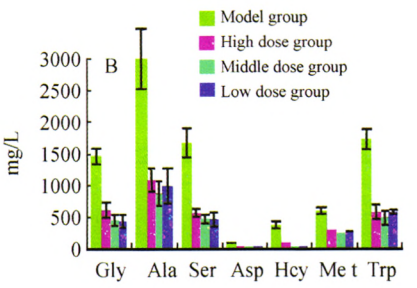
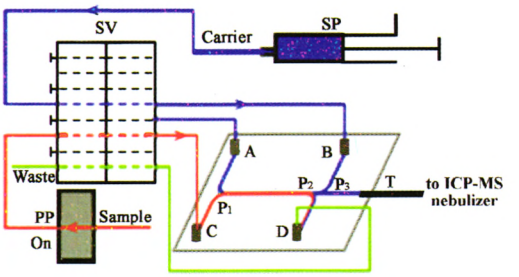


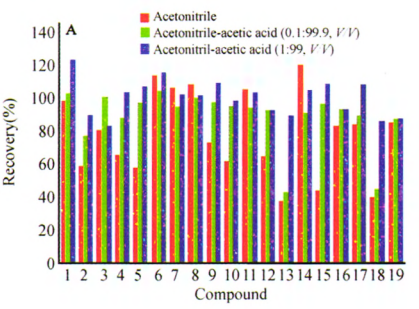








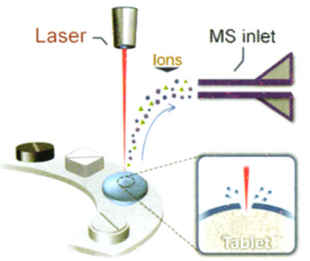




★ **Rapid and Direct Analysis of Active Ingredients in Tablets Using Atmospheric Pressure Laser Desorption Ionization Mass Spectrometry**

REN Xin-Xin, LIU Jia, ZHANG Cheng-Sen, LUO Hai*

Chinese J. Anal. Chem., **2013**, 41(3): 366–370



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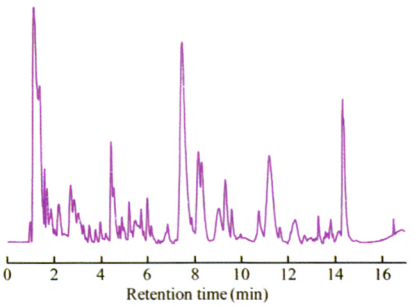
Chinese J. Anal. Chem., **2013**, 41(3): 371–376



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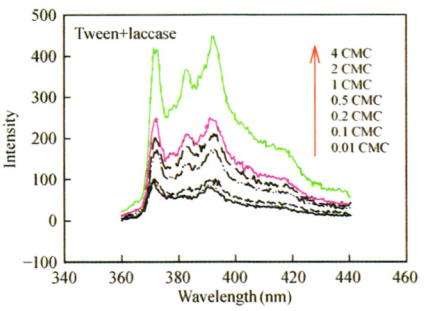

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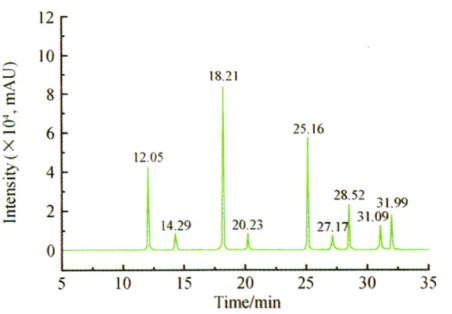
Chinese J. Anal. Chem., **2013**, 41(3): 383–388



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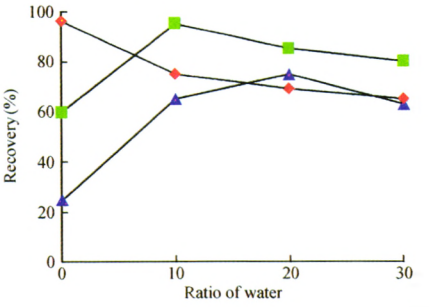

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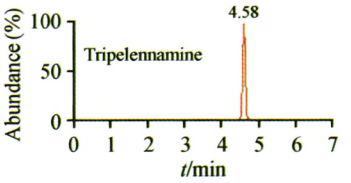

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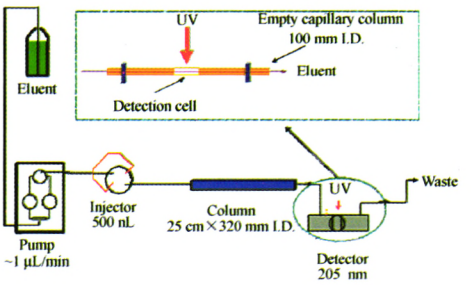
LI Jing, ZHU Yan*

Chinese J. Anal. Chem., **2013**, 41(3): 400–405



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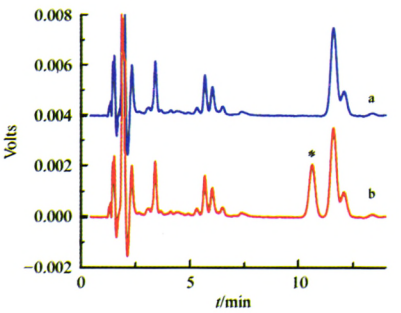
DUAN Yu-Hui, WEI Yin-Mao*

Chinese J. Anal. Chem., **2013**, 41(3): 406–411



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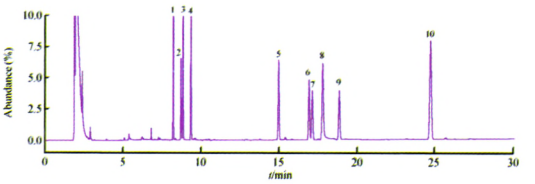
Chinese J. Anal. Chem., **2013**, 41(3): 412–416



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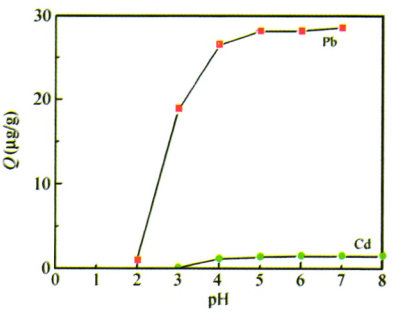
Chinese J. Anal. Chem., **2013**, 41(3): 417–421



Simultaneous Detection of Nine Kinds of Estrogens in Water by Solid Phase Extraction Coupled with Gas Chromatography-Mass Spectrometry

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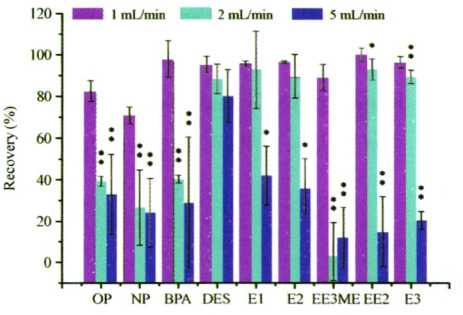
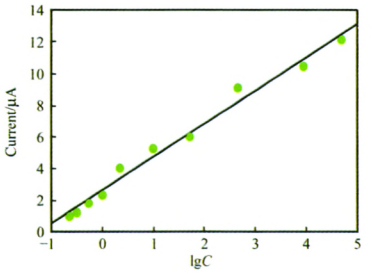
Chinese J. Anal. Chem., **2013**, 41(3): 422–426



Electrochemical Sensor Based on Platinum-Nickel-Iron/Carbon Nanosheets Nanocomposite for Determination of Clenbuterol

FENG Ya-Juan, NIU Si-Peng, FU Xue-Wen, ZHAO Jin-Hang, YANG Yun-Hui*

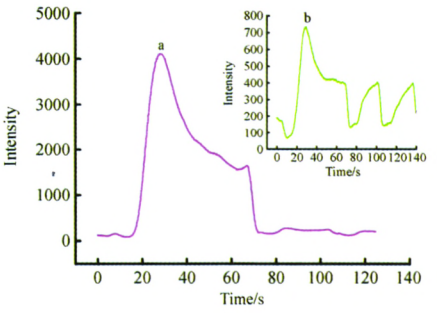
Chinese J. Anal. Chem., **2013**, 41(3): 427–431



Determination of Cholesterol in Hogwash Oil by Flow Injection Chemiluminescence with Bis(2,4,6-trichlorophenyl) oxalate-Hydrogen Peroxide System

XIAO Hu-Yong, CHEN Jia, WEI Guo-Fen, HU Qin-Qin, AI Yong-Qing, HAN Yun, ZHOU Xing-Wang, LÜ Jian-Quan*

Chinese J. Anal. Chem., **2013**, 41(3): 432–435



Review and Progress

★ **Progress of Photoelectrochemical Analysis and Sensors**

ZHANG Zhao-Xia, ZHAO Chang-Zhi*

Chinese J. Anal. Chem., **2013**, 41(3): 436–444

The photoelectrochemical analysis based on this phenomenon has a great application potential for analytical chemistry because of good selectivity, high sensitivity, simple equipment and easy miniaturization. In the paper, the progress of photoelectrochemical analysis and its sensors is reviewed through 91 literatures in recent years.

★**Surface Modification of Poly Ethylene Glycol to Resist Nouspecific Adsorption of Proteins**

XIAO Xi-Feng, JIANG Xiao-Qun, ZHOU Lei-Ji*

Chinese J. Anal. Chem., **2013**, 41(3): 445−453

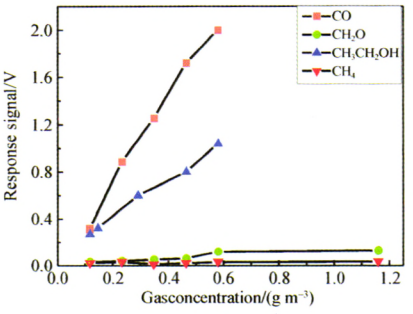
Poly ethylene glycol (PEG), as a polymer of unique properties in hydrophilicity and electrical neutrality, is well known as a significant material to resist protein adsorption. Here we reviewed some developments in recent years in surface modification of PEG on various substrates, including the analysis of PEG structures and characteristics, theoretic interpretation of adsorption resistance, and the strategies of PEG modification on hydrophobic surfaces. We also look forward to its development prospects.

Experimental Technique and Instrument

Based-Negative Temperature Coefficient Thermistor Catalytic Combustion Carbon Monoxide Sensor

HUANG Cai-Xia, GAO Guo-Qiang*

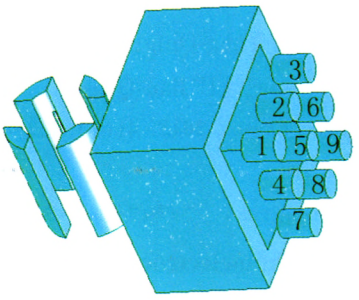
Chinese J. Anal. Chem., **2013**, 41(3): 454−458



Development and Application of a Novel Ion Focus Device under Ambient Conditions

LIU Kun*, WANG Xiao-Hao, TANG Fei

Chinese J. Anal. Chem., **2013**, 41(3): 459−464



* The author to whom the correspondence should be addressed

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