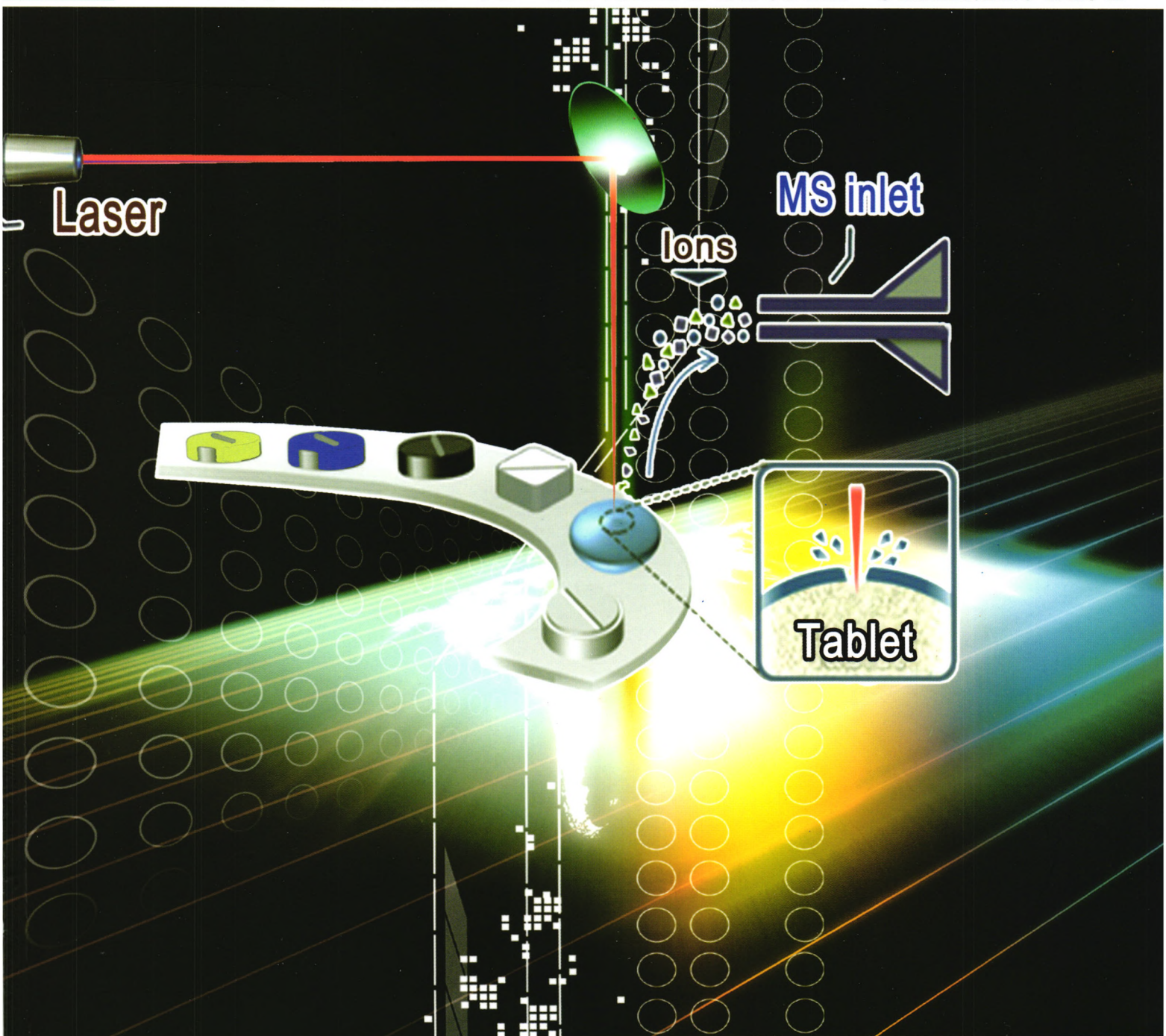


分析化学

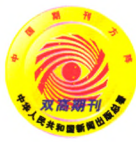
No.3 Vol.41

2013.3

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科学出版社



分析化学

第41卷第3期 2013年3月

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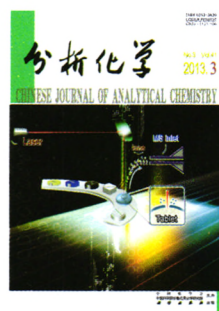
广告目录

通用电气(中国)医疗集团生命科学部(封二) 岛津国际贸易(上海)有限公司(文前1) 岛津国际贸易(上海)有限公司(文前2) 岛津技迹(上海)商贸有限公司(文前3) 飞世尔实验器材(上海)有限公司(文前4) 成都超纯科技有限公司(文前5) 大连依利特分析仪器有限公司(文前6) 安捷伦科技有限公司(文前7) 安捷伦科技有限公司(文前8) 订阅《分析化学》(文前9) 北京浩天晖科贸有限公司(文前10) 北京浩天晖科贸有限公司(文前11) 信息仪器网(文前12) 订阅《分析化学》(文前13) 上海伍丰科学仪器有限公司(目录前14) 赛默飞世尔科技(中国)有限公司(中插1) 赛默飞世尔科技(中国)有限公司(中插2) 德国耶拿分析仪器股份公司(中插3) 北京氨普北分气体工业有限公司(中插4) 北京氨普北分气体工业有限公司(中插5) 北京莱伯泰科仪器有限公司(中插6) 山东禹王实业有限公司(文后1) 北京海光仪器公司(封三) 北京吉天仪器有限公司(封底)

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* 联系人

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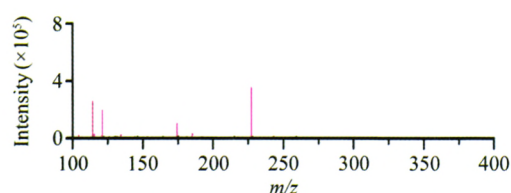
The cover image presents the schematic diagram of atmospheric pressure laser desorption ionization mass spectrometry (APLDI-MS). On page 366, REN et al demonstrate a method for fast and direct screening of active ingredients in drug tablets.

Invited Papers

Coupling Micropipette Tip-based Micro-extraction with Desorption Corona Beam Ionization Mass Spectrometry for Rapid Analysis of Anti-hypertensive Drugs in Body Fluid

YOU Jin-Qing, HAO Yan-Hong, Huang Yun-Qing, CHENG Yu-Peng, SUN Wen-Jian, YU Qiong-Wei, YUAN Bi-Feng, FENG Yu-Qi*

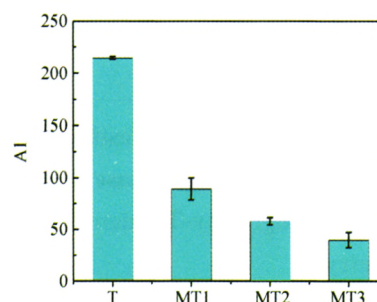
Chinese J. Anal. Chem., 2013, 41(3): 319-324



Quantitative Determination of Sequence-specific Nucleic Acid Based on Fluorescent Labeled DNA Probe and Dye SYBR Green I

ZHENG Ai-Hua, ZHU Qing, XIANG Dong-Shan, HE Zhi-Ke*

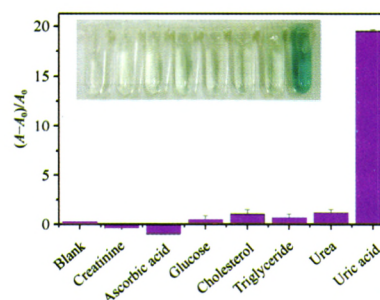
Chinese J. Anal. Chem., 2013, 41(3): 325-329



★ Application of NaYF₄:Yb,Er Nanoparticles as Peroxidase Mimetics in Uric Acid Detection

TANG Yu-Rong, ZHANG Yu, LIU Rui, SU Ying-Ying, LÜ Yi*

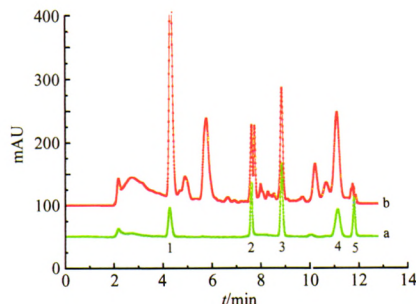
Chinese J. Anal. Chem., 2013, 41(3): 330-336



★ **Hollow Fiber Liposome Microscreening and Its Application in Screening and Fishing Membrane Permeation Ingredient of Coumarins and Lignans in Traditional Chinese Medicine**

LI Li-Hua, XUE Xue, PENG Chao,
BAI Xiao-Hong*

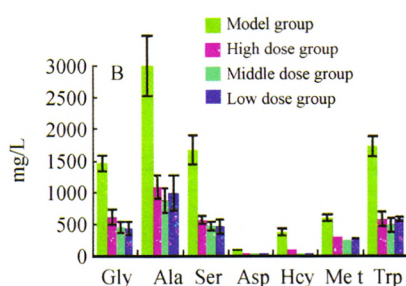
Chinese J. Anal. Chem., 2013, 41(3): 337–343



Study on Blood Amino Acid Metabonomics of Cerebral Ischemia Treated by Huangqi Injection Based on HPLC-MS/MS

WU Hong-Wei, GAO Jian, LI Shao-Jing,
TANG Li-Ying, XU Hai-Yu, TANG Shi-Huan,
YANG Hong-Jun*

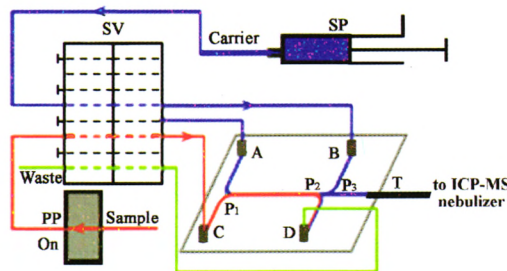
Chinese J. Anal. Chem., 2013, 41(3): 344–348



★ **Determination of Platinum in Human Plasma by Microchip-based Nanoflow Injection and Inductively Coupled Plasma Mass Spectrometry**

WU Chun-Ling, CHENG He-Yong*, LIU Jin-Hua,
XU Zi-Gang*, YIN Xue-Feng

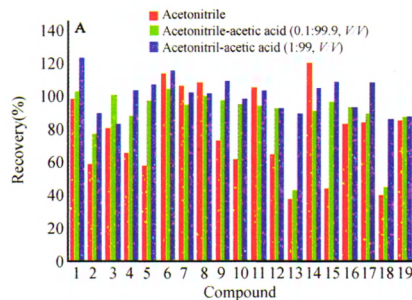
Chinese J. Anal. Chem., 2013, 41(3): 349–353



Determination of 19 Acidic Pesticide Residues in Fruit by Dispersive Solid Phase Extraction and Liquid Chromatography-Tandem Mass Spectrometry

JIN Fen, SHI Xiao-Mei, YU Zhi-Yong, LI Min-Jie,
SHAO Hua, JIN Mao-Jun, WANG Jing*

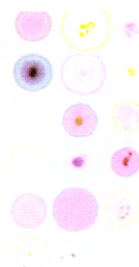
Chinese J. Anal. Chem., 2013, 41(3): 354–359



Research on Discrimination of Dominant Spoilage Bacteria in Pork Based on Natural Gas-Sensing Material

HUANG Xiao-Wei, ZHAO Jie-Wen, SHI Ji-Yong,
HUANG Lin, ZOU Xiao-Bo*

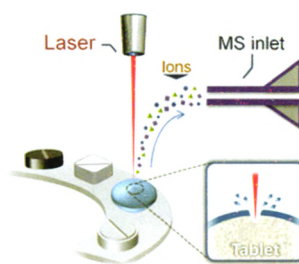
Chinese J. Anal. Chem., 2013, 41(3): 360–365



★ **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*

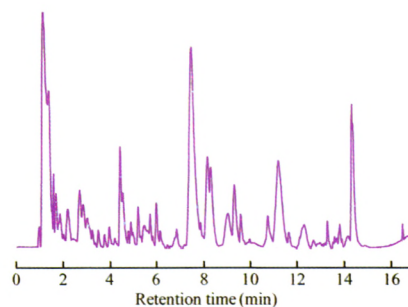
Chinese J. Anal. Chem., 2013, 41(3): 366–370



A Urinary Metabonomics Research on Total Ginsenoside Treated Diabetes Cardiomyopathy Rats Based on Rapid Resolution Liquid Chromatography/Mass Spectrometry

GU Jin-Ning, NIU Jun, PI Zi-Feng, YUE Hao, WU Sui-Sheng*, LIU Shu-Ying*

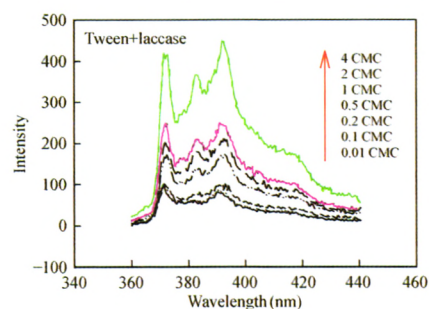
Chinese J. Anal. Chem., 2013, 41(3): 371–376



Analysis of Surfactant Micellers and Their Interaction with Enzymes by Fluorescence of Pyrene

LIANG Yun-Shan*, YUAN Xing-Zhong, ZENG Guang-Ming, NIU Cheng-Gang, WANG Wei-Wei, SUN Ting, HAN Zeng-Hui

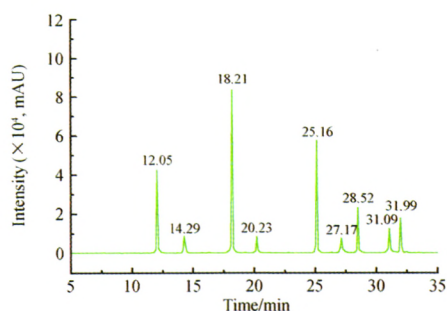
Chinese J. Anal. Chem., 2013, 41(3): 377–382



Simultaneous Determination of Nine Phenolic Acids in *Dendranthema Morifolium* (Ramat) Tzvel. cv. Chuju Samples by High Performance Liquid chromatography

XIE Yue, YU Hao, WANG Jian-Fei*, ZHANG Zu-Liang, CHEN Shi-Yong, XIAO Xin, LI Xiao-Liang

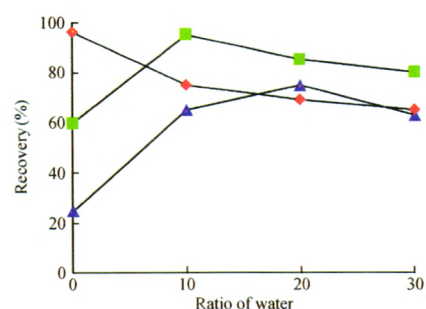
Chinese J. Anal. Chem., 2013, 41(3): 383–388



Determination of Phenylethanolamine A in Animal Feeds Using Ultra High Performance Liquid Chromatography-Photodiode Array Detector

WANG Rui-Guo, SU Xiao-Ou*, WANG Pei-Long, LI Yang, FAN Yu-Fei

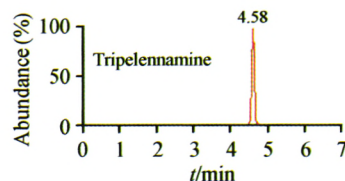
Chinese J. Anal. Chem., 2013, 41(3): 389–393



Determination of Nine Anti-allergy Drugs Residue in Cosmetics by Solid Phase Extraction-Rapid Resolution Liquid Chromatography Tandem Mass Spectrometry

WANG Yan-Qin*, CHE Wen-Jun, WANG Li, XU Chun-Xiang, LU Jian

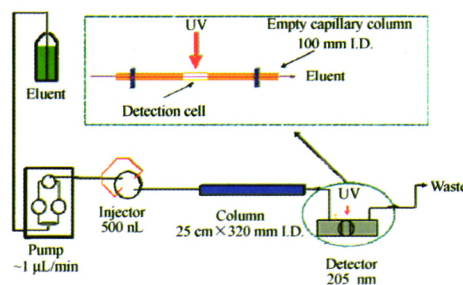
Chinese J. Anal. Chem., 2013, 41(3): 394-399



Preparation and Application of Cation-exchange Capillary Monolithic Column in Capillary Ion Chromatography

LI Jing, ZHU Yan*

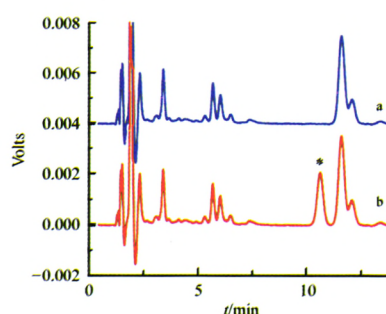
Chinese J. Anal. Chem., 2013, 41(3): 400-405



Solid Phase Extraction by Boric Acid-Functionalized Silica for Determination of Dopamine with High Performance Liquid Chromatography

DUAN Yu-Hui, WEI Yin-Mao*

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

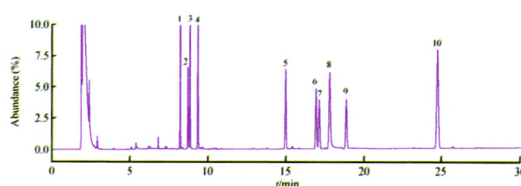


Research Notes

Determination of Kepone in Marine Sediment by Gas Chromatography

WANG Yan-Jie, NA Guang-Shui, WANG Zhen, YAO Zi-Wei*

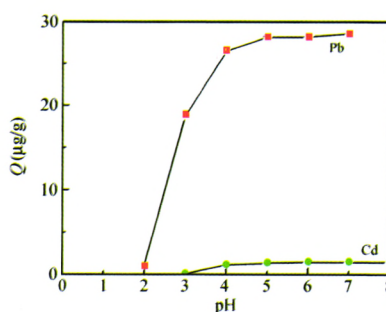
Chinese J. Anal. Chem., 2013, 41(3): 412-416



Determination of Pb(II) and Cd(II) by Graphite Furnace Atomic Absorption Spectrometry after Preconcentration with Graphene-Titanium Dioxide Composites

GU Xiao-Wen, LÜ Xue-Ju, JIA Qiong*, ZHOU Wei-Hong, LIU Yun-Ling

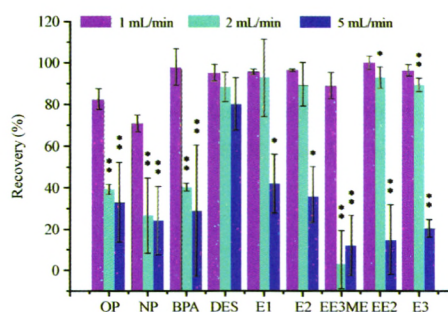
Chinese J. Anal. Chem., 2013, 41(3): 417-421



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

LIAO Tao, WU Xiao-Cui, WANG Shao-Hua, XIE Song-Guang, XIONG Guang-Quan, GENG Sheng-Rong, LI Xin, ZU Xiao-Yan, HU Xiao-Bo*

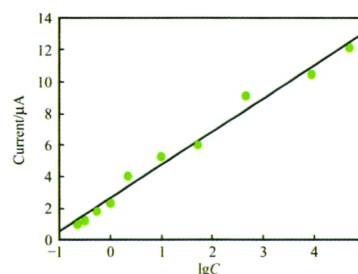
Chinese J. Anal. Chem., 2013, 41(3): 422-426



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*

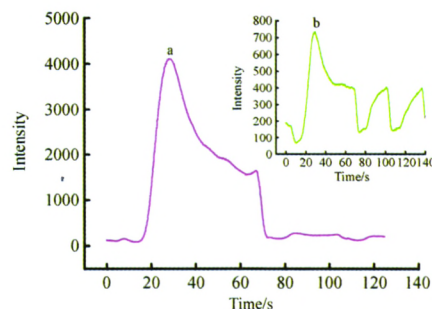
Chinese J. Anal. Chem., 2013, 41(3): 427-431



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 Nonspecific Adsorption of Proteins**

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

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

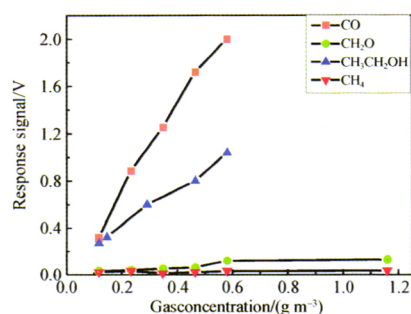
Poly ethylene glycol (PEG), as a polymer of unique properties in hydrophilicity and electrical neutrality, is well known as a significant material to resist protein adsorption. Here we reviewed some developments in recent years in surface modification of PEG on various substrates, including the analysis 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 *

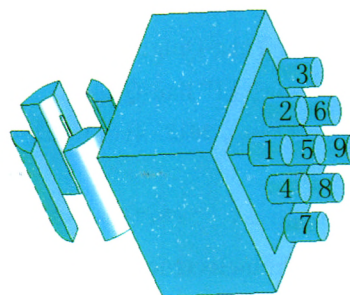
Chinese J. Anal. Chem., 2013, 41(3): 454–458



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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