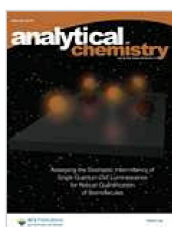


## Table of Contents



July 16, 2013  
Volume 85, Issue 14  
Pages 6545-6980

### In this issue:

- » EDITORS' HIGHLIGHTS
- » LETTERS TO ANALYTICAL CHEMISTRY
- » TECHNICAL NOTES
- » ARTICLES

### About the Cover:

The cover image illustrates the stochastic fluorescence behavior of single Quantum Dots. In their article, David Walt et al. demonstrate that analyzing the variations in the fluorescent signal can lead to a robust method for single molecule quantification. Artwork by Maël Manesse. [View the article.](#)

## EDITORS' HIGHLIGHTS

### Handheld Low-Temperature Plasma Probe for Portable "Point-and-Shoot" Ambient Ionization Mass Spectrometry

Joshua S. Wiley, Jacob T. Shelley, and R. Graham Cooks

pp 6545-6552

Publication Date (Web): May 30, 2013 (Editors' Highlight)

DOI: 10.1021/ac4013286

Section: **Organic Analytical Chemistry**

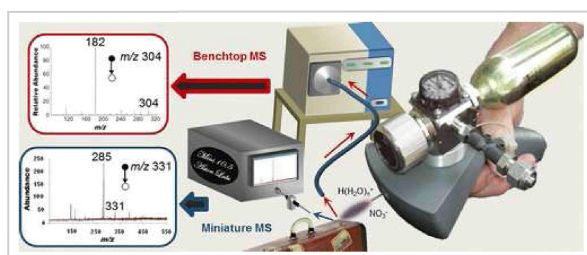


Figure 1 of 6

**Electrochemical Tattoo Biosensors for Real-Time Noninvasive Lactate Monitoring in Human Perspiration**

Wenzhao Jia, Amay J. Bandodkar, Gabriela Valdés-Ramírez, Joshua R. Windmiller, Zhanjun Yang, Julian Ramírez, Garrett Chan, and Joseph Wang

pp 6553-6560

Publication Date (Web): July 1, 2013 (Editors' Highlight)

DOI: 10.1021/ac401573r

 Section: **Biochemical Methods**

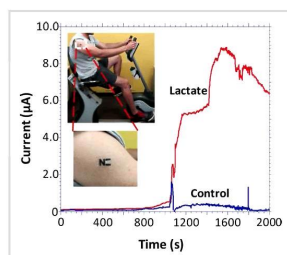


Figure 1 of 7

LETTERS TO ANALYTICAL CHEMISTRY

**Electrochemical Determination of the Glass Transition Temperature of Thin Polyelectrolyte Brushes at Solid-Liquid Interfaces by Impedance Spectroscopy**

Teodoro Alonso-García, María José Rodríguez-Presa, Claudio Gervasi, Sergio Moya, and Omar Azzaroni

pp 6561-6565

Publication Date (Web): June 28, 2013 (Letter)

DOI: 10.1021/ac4007655

 Section: **Physical Properties of Synthetic High Polymers**

**Accurate Method for the Determination of Intramolecular <sup>13</sup>C Isotope Composition of Ethanol from Aqueous Solutions**

Alexis Gilbert, Keita Yamada, and Naohiro Yoshida

pp 6566-6570

Publication Date (Web): June 7, 2013 (Letter)

DOI: 10.1021/ac401021p

 Section: **Organic Analytical Chemistry**

**Aptamer-Based Plasmonic Sensor Array for Discrimination of Proteins and Cells with the Naked Eye**

Yuexiang Lu, Yueying Liu, Suge Zhang, Song Wang, Sichun Zhang, and Xinrong Zhang

pp 6571-6574

Publication Date (Web): June 25, 2013 (Letter)

DOI: 10.1021/ac4014594

 Section: **Biochemical Methods**

TECHNICAL NOTES

**Accurate Detection of Methylated Cytosine in Complex Methylation Landscapes**

Ramkumar Palanisamy, Ashley R. Connolly, and Matt Trau

pp 6575-6579

Publication Date (Web): June 17, 2013 (Technical Note)

DOI: 10.1021/ac3031948

 Section: **Biochemical Genetics**

**Library Approach for Reliable Synthesis and Properties of DNA–Gold Nanorod Conjugates**

Jang Ho Joo and Jae-Seung Lee

pp 6580–6586

Publication Date (Web): June 25, 2013 (Technical Note)

DOI: 10.1021/ac400672e

ACS Section: Biochemical Methods **Rotatable Reagent Cartridge for High-Performance Microvalve System on a Centrifugal Microfluidic Device**

Takayuki Kawai, Nahoko Naruishi, Hidenori Nagai, Yoshihide Tanaka, Yoshihisa Hagihara, and Yasukazu Yoshida

pp 6587–6592

Publication Date (Web): June 26, 2013 (Technical Note)

DOI: 10.1021/ac400667e

ACS Section: Biochemical Methods **Determinants of the Detection Limit and Specificity of Surface-Based Biosensors**

Berta Esteban Fernández de Ávila, Herschel M. Watkins, José M. Pingarrón, Kevin W. Plaxco, Giuseppe Palleschi, and Francesco Ricci

pp 6593–6597

Publication Date (Web): May 29, 2013 (Technical Note)

DOI: 10.1021/ac4012123

ACS Section: Biochemical Methods **An Interface for Sensitive Analysis of Monoamine Neurotransmitters by Ion-Pair Chromatography–Electrospray Ionization–Mass Spectrometry with Continuous Online Elimination of Ion-Pair Reagents**

Shuyun Shi, Binqing Zhao, Gargey Yagnik, and Feimeng Zhou

pp 6598–6602

Publication Date (Web): June 14, 2013 (Technical Note)

DOI: 10.1021/ac401396j

ACS Section: Mammalian Hormones **Performing Isoelectric Focusing and Simultaneous Fractionation of Proteins on A Rotary Valve Followed by Sodium Dodecyl–Polyacrylamide Gel Electrophoresis**

Wei Wang, Joann J. Lu, Congying Gu, Lei Zhou, and Shaorong Liu

pp 6603–6607

Publication Date (Web): June 19, 2013 (Technical Note)

DOI: 10.1021/ac401470d

ACS Section: Biochemical Methods

## ARTICLES

 **Mixed-Bed Ion Exchange Chromatography Employing a Salt-Free pH Gradient for Improved Sensitivity and Compatibility in MudPIT**

Geert P. M. Mommen, Hugo D. Meiring, Albert J. R. Heck, and Ad P. J. M. de Jong

pp 6608–6616

Publication Date (Web): June 17, 2013 (Article)

DOI: 10.1021/ac400995e

ACS Section: Biochemical Methods

**A Thermally Responsive Phospholipid Pseudogel: Tunable DNA Sieving with Capillary Electrophoresis**

Brandon C. Durney, Jenny A. Lounsbury, Brian L. Poe, James P. Landers, and Lisa A. Holland

pp 6617-6625

Publication Date (Web): June 10, 2013 (Article)

DOI: 10.1021/ac303745g

 Section: Biochemical Methods **Boron-Doped Diamond Electrodes for the Electrochemical Oxidation and Cleavage of Peptides**

Julien Roeser, Niels F. A. Alting, Hjalmar P. Permentier, Andries P. Bruins, and Rainer Bischoff

pp 6626-6632

Publication Date (Web): June 13, 2013 (Article)

DOI: 10.1021/ac303795c

 Section: Biochemical Methods **Single Embryo-Coupled Gate Field Effect Transistor for Elective Single Embryo Transfer**

Toshiya Sakata, Akiko Saito, Jinji Mizuno, Haruyo Sugimoto, Kaori Noguchi, Eiko Kikuchi, and Hiroaki Inui

pp 6633-6638

Publication Date (Web): June 19, 2013 (Article)

DOI: 10.1021/ac4001018

 Section: Biochemical Methods **Assessing the Stochastic Intermittency of Single Quantum Dot Luminescence for Robust Quantification of Biomolecules**

Manuel A. Palacios, Michael M. Lacy, Stephanie M. Schubert, Mael Manesse, and David R. Walt

pp 6639-6645

Publication Date (Web): April 30, 2013 (Article)

DOI: 10.1021/ac4001332

 Section: Biochemical Methods **Carbon Nanodots As a Matrix for the Analysis of Low-Molecular-Weight Molecules in Both Positive- and Negative-Ion Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry and Quantification of Glucose and Uric Acid in Real Samples**

Suming Chen, Huzhi Zheng, Jianing Wang, Jian Hou, Qing He, Huihui Liu, Caiqiao Xiong, Xianglei Kong, and Zongxiu Nie

pp 6646-6652

Publication Date (Web): June 24, 2013 (Article)

DOI: 10.1021/ac401601r

 Section: Biochemical Methods **In Situ Electrochemical Digital Holographic Microscopy; a Study of Metal Electrodeposition in Deep Eutectic Solvents**

Andrew P. Abbott, Muhammad Azam, Karl S. Ryder, and Saima Saleem

pp 6653-6660

Publication Date (Web): June 10, 2013 (Article)

DOI: 10.1021/ac400262c

 Section: Electrochemistry

**Chromatographic Determination of Nanomolar Cyanate Concentrations in Estuarine and Sea Waters by Precolumn Fluorescence Derivatization**

Brittany Widner, Margaret R. Mulholland, and Kenneth Mopper

pp 6661-6666

Publication Date (Web): June 6, 2013 (Article)

DOI: 10.1021/ac400351c

ACS Section: Water **Laser Electrospray Mass Spectrometry Minimizes Ion Suppression Facilitating Quantitative Mass Spectral Response for Multicomponent Mixtures of Proteins**

Johnny J. Perez, Paul M. Flanigan, IV, Santosh Karki, and Robert J. Levis

pp 6667-6673

Publication Date (Web): June 10, 2013 (Article)

DOI: 10.1021/ac400401h

ACS Section: Biochemical Methods **Evaluation of <sup>1</sup>H NMR Metabolic Profiling Using Biofluid Mixture Design**

Toby J. Athersuch, Shahid Malik, Aalim Weljie, Jack Newton, and Hector C. Keun

pp 6674-6681

Publication Date (Web): June 3, 2013 (Article)

DOI: 10.1021/ac400449f

ACS Section: Biochemical Methods **Charge-Based Detection of Small Molecules by Plasmonic-Based Electrochemical Impedance Microscopy**

Christopher MacGriff, Shaopeng Wang, Peter Wiktor, Wei Wang, Xiaonan Shan, and Nongjian Tao

pp 6682-6687

Publication Date (Web): July 1, 2013 (Article)

DOI: 10.1021/ac400475z

ACS Section: Biochemical Methods **Polyelectrolyte-Coated Gold Magnetic Nanoparticles for Immunoassay Development: Toward Point of Care Diagnostics for Syphilis Screening**

Dong Yang, Jianzhong Ma, Qinlu Zhang, Ningning Li, Jiangcun Yang, Paul Ananda Raju, Mingli Peng, Yanling Luo, Wenli Hui, Chao Chen, and Yali Cui

pp 6688-6695

Publication Date (Web): June 4, 2013 (Article)

DOI: 10.1021/ac400517e

ACS Section: Biochemical Methods **Two-Dimensional Continuous Extraction in Multiphase Lipid Bilayers To Separate, Enrich, and Sort Membrane-Bound Species**

Ling Chao, Mark J. Richards, Chih-Yun Hsia, and Susan Daniel

pp 6696-6702

Publication Date (Web): June 18, 2013 (Article)

DOI: 10.1021/ac4006952

ACS Section: Biochemical Methods

**Expanding Multimodal Microscopy by High Spectral Resolution Coherent Anti-Stokes Raman Scattering Imaging for Clinical Disease Diagnostics**

Tobias Meyer, Mario Chemnitz, Martin Baumgartl, Thomas Gottschall, Torbjörn Pascher, Christian Matthäus, Bernd F. M. Romeike, Bernhard R. Brehm, Jens Limpert, Andreas Tünnermann, Michael Schmitt, Benjamin Dietzek, and Jürgen Popp

pp 6703-6715

Publication Date (Web): June 19, 2013 (Article)

DOI: 10.1021/ac400570w

 Section: Biochemical Methods

**Ion Profiling in an Ambient Drift Tube-Ion Mobility Spectrometer Using a High Pixel Density Linear Array Detector IonCCD**

Stephen J. Davila, Omar Hadjar, and Gary A. Eiceman

pp 6716-6722

Publication Date (Web): June 7, 2013 (Article)

DOI: 10.1021/ac400581s

 Section: Optical, Electron, and Mass Spectroscopy and Other Related Properties

**Sequential Operation Droplet Array: An Automated Microfluidic Platform for Picoliter-Scale Liquid Handling, Analysis, and Screening**

Ying Zhu, Yun-Xia Zhang, Long-Fei Cai, and Qun Fang

pp 6723-6731

Publication Date (Web): June 13, 2013 (Article)

DOI: 10.1021/ac4006414

 Section: Biochemical Methods

**A Quantitative Mass Spectrometry-Based Approach for Assessing the Repair of 8-Methoxypsoralen-Induced DNA Interstrand Cross-Links and Monoadducts in Mammalian Cells**

Shuo Liu and Yinsheng Wang

pp 6732-6739

Publication Date (Web): June 21, 2013 (Article)

DOI: 10.1021/ac4012232

 Section: Pharmacology

**Cell-Based Drug Combination Screening with a Microfluidic Droplet Array System**

Guan-Sheng Du, Jian-Zhang Pan, Shi-Ping Zhao, Ying Zhu, Jaap M.J. den Toonder, and Qun Fang

pp 6740-6747

Publication Date (Web): June 20, 2013 (Article)

DOI: 10.1021/ac400688f

 Section: Pharmacology

**Improved Mass Spectrometric Analysis of Membrane Proteins Based on Rapid and Versatile Sample Preparation on Nanodiamond Particles**

Minh D. Pham, Steve S.-F. Yu, Chau-Chung Han, and Sunney I. Chan

pp 6748-6755

Publication Date (Web): June 13, 2013 (Article)

DOI: 10.1021/ac400713g

 Section: Biochemical Methods

**Fragment Screening by Weak Affinity Chromatography: Comparison with Established Techniques for Screening against HSP90**

Elinor Meiby, Heather Simmonite, Loïc le Strat, Ben Davis, Natalia Matassova, Jonathan D. Moore, Michael Mrosek, James Murray, Roderick E. Hubbard, and Sten Ohlson

pp 6756-6766

Publication Date (Web): June 10, 2013 (Article)

DOI: 10.1021/ac400715t

 Section: [Biochemical Methods](#)

**Spatially-Directed Protein Identification from Tissue Sections by Top-Down LC-MS/MS with Electron Transfer Dissociation**

Kevin L. Schey, David M. Anderson, and Kristie L. Rose

pp 6767-6774

Publication Date (Web): May 29, 2013 (Article)

DOI: 10.1021/ac400832w

 Section: [Biochemical Methods](#)

**In Situ Live Cell Sensing of Multiple Nucleotides Exploiting DNARNA Aptamers and Graphene Oxide Nanosheets**

Ying Wang, Zhaohui Li, Thomas J. Weber, Dehong Hu, Chiann-Tso Lin, Jinghong Li, and Yuehe Lin

pp 6775-6782

Publication Date (Web): June 11, 2013 (Article)

DOI: 10.1021/ac400858g

 Section: [Biochemical Methods](#)

**Stable and Uniform SERS Signals from Self-Assembled Two-Dimensional Interfacial Arrays of Optically Coupled Ag Nanoparticles**

Magdalena P. Konrad, Andrew P. Doherty, and Steven E. J. Bell

pp 6783-6789

Publication Date (Web): June 10, 2013 (Article)

DOI: 10.1021/ac4008607

 Section: [Optical, Electron, and Mass Spectroscopy and Other Related Properties](#)

**Evaluation of Intracavity Optogalvanic Spectroscopy for Radiocarbon Measurements**

Anders Persson, Gerriet Eilers, Linus Ryderfors, Enad Mukhtar, Göran Possnert, and Mehran Salehpour

pp 6790-6798

Publication Date (Web): June 6, 2013 (Article)

DOI: 10.1021/ac400905n

 Section: [Inorganic Analytical Chemistry](#)

**Nonlinear Analysis: The Intermodulated Differential Immittance Spectroscopy**

Alberto Battistel and Fabio La Mantia

pp 6799-6805

Publication Date (Web): June 10, 2013 (Article)

DOI: 10.1021/ac400907q

 Section: [Electrochemistry](#)

**Combination of Capillary Isoelectric Focusing in a Tapered Capillary with MALDI-TOF MS for Rapid and Reliable Identification of *Dickeya* Species from Plant Samples**

Marie Horká, Jiří Šalplachta, Pavel Karásek, Anna Kubesová, Jaroslav Horký, Hana Matoušková, Karel Šlais, and Michal Roth

pp 6806-6812

Publication Date (Web): June 14, 2013 (Article)

DOI: 10.1021/ac4009176

 Section: Biochemical Methods

**Electrochemical Enzyme-Linked Immunosorbent Assay Featuring Proximal Reagent Generation: Detection of Human Immunodeficiency Virus Antibodies in Clinical Samples**

Alyajahan Bhimji, Alexandre A. Zaragoza, Ludovic S. Live, and Shana O. Kelley

pp 6813-6819

Publication Date (Web): June 12, 2013 (Article)

DOI: 10.1021/ac4009429

 Section: Biochemical Methods

**RPLC of Intact Proteins Using Sub-0.5  $\mu\text{m}$  Particles and Commercial Instrumentation**

Benjamin J. Rogers, Robert E. Birdsall, Zhen Wu, and Mary J. Wirth

pp 6820-6825

Publication Date (Web): June 20, 2013 (Article)

DOI: 10.1021/ac400982w

 Section: Biochemical Methods

**Resin-Assisted Enrichment of N-Terminal Peptides for Characterizing Proteolytic Processing**

Jong-Seo Kim, Ziyu Dai, Uma K. Aryal, Ronald J. Moore, David G. Camp, II, Scott E. Baker, Richard D. Smith, and Wei-Jun Qian

pp 6826-6832

Publication Date (Web): June 17, 2013 (Article)

DOI: 10.1021/ac401000q

 Section: Biochemical Methods

**Nitroxyl Radicals Remarkably Enhanced the Superoxide Anion Radical-Induced Chemiluminescence of *Cypridina* Luciferin Analogues**

Keizo Takeshita, Shoko Okazaki, and Akiko Itoda

pp 6833-6839

Publication Date (Web): June 17, 2013 (Article)

DOI: 10.1021/ac401002v

 Section: Biochemical Methods

**Interfacial Micropore Defect Formation in PEDOT:PSS-Si Hybrid Solar Cells Probed by TOF-SIMS 3D Chemical Imaging**

Joseph P. Thomas, Liyan Zhao, Marwa Abd-Allah, Nina F. Heinig, and K. T. Leung

pp 6840-6845

Publication Date (Web): June 7, 2013 (Article)

DOI: 10.1021/ac401084x

 Section: Electrochemical, Radiational, and Thermal Energy Technology



**Universal Multilayer Assemblies of Graphene in Chemically Resistant Microtubes for Microextraction**

Wenpeng Zhang, Juan Zhang, Tao Bao, Wei Zhou, Jiawei Meng, and Zilin Chen

pp 6846-6854

Publication Date (Web): June 25, 2013 (Article)

DOI: 10.1021/ac401157j

ACS Section: Organic Analytical Chemistry **Single-Molecule Measurements of Transient Biomolecular Complexes through Microfluidic Dilution**

Mathew H. Horrocks, Luke Rajah, Peter Jönsson, Magnus Kjaergaard, Michele Vendruscolo, Tuomas P. J. Knowles, and David Klenerman

pp 6855-6859

Publication Date (Web): June 19, 2013 (Article)

DOI: 10.1021/ac4010875

ACS Section: Biochemical Methods **Assays Using a NIMS Chip: Loosely Bound but Highly Selective**

J. Li and R. H. Lipson

pp 6860-6865

Publication Date (Web): June 17, 2013 (Article)

DOI: 10.1021/ac401101j

ACS Section: Enzymes **Unconventional Application of Conventional Enzymatic Substrate: First Fluorogenic Immunoassay Based on Enzymatic Formation of Quantum Dots**

Natalia Malashikhina, Gaizka Garai-Ibabe, and Valeri Pavlov

pp 6866-6870

Publication Date (Web): June 14, 2013 (Article)

DOI: 10.1021/ac4011342

ACS Section: Biochemical Methods **Smart Three-Dimensional Gas Chromatography**

Di Chen, Jung Hwan Seo, Jing Liu, Katsuo Kurabayashi, and Xudong Fan

pp 6871-6875

Publication Date (Web): June 21, 2013 (Article)

DOI: 10.1021/ac401152v

ACS Section: Organic Analytical Chemistry **Toward 'Omic Scale Metabolite Profiling: A Dual Separation–Mass Spectrometry Approach for Coverage of Lipid and Central Carbon Metabolism**

Julijana Ivanisevic, Zheng-Jiang Zhu, Lars Plate, Ralf Tautenhahn, Stephen Chen, Peter J. O'Brien, Caroline H. Johnson, Michael A. Marletta, Gary J. Patti, and Gary Siuzdak

pp 6876-6884

Publication Date (Web): June 19, 2013 (Article)

DOI: 10.1021/ac401140h

ACS Section: Biochemical Methods

**Chemical Bonding Approach for Fabrication of Hybrid Magnetic Metal–Organic Framework-5: High Efficient Adsorbents for Magnetic Enrichment of Trace Analytes**

Yuling Hu, Zelin Huang, Jia Liao, and Gongke Li

pp 6885-6893

Publication Date (Web): June 13, 2013 (Article)

DOI: 10.1021/ac4011364

 Section: [Organic Analytical Chemistry](#)

**Oxygen Isotope Exchange between O<sub>2</sub> and CO<sub>2</sub> over Hot Platinum: An Innovative Technique for Measuring Δ<sup>17</sup>O in CO<sub>2</sub>**

Sasadhar Mahata, S. K. Bhattacharya, Chung-Ho Wang, and Mao-Chang Liang

pp 6894-6901

Publication Date (Web): June 13, 2013 (Article)

DOI: 10.1021/ac4011777

 Section: [Inorganic Analytical Chemistry](#)

**Preprogrammed, Parallel On-Chip Immunoassay Using System-Level Capillarity Control**

Sung-Jin Kim, Sophie Paczesny, Shuichi Takayama, and Katsuo Kurabayashi

pp 6902-6907

Publication Date (Web): June 21, 2013 (Article)

DOI: 10.1021/ac401292d

 Section: [Biochemical Methods](#)

**Label-Free and Selective Photoelectrochemical Detection of Chemical DNA Methylation Damage Using DNA Repair Enzymes**

Yiping Wu, Bintian Zhang, and Liang-Hong Guo

pp 6908-6914

Publication Date (Web): June 18, 2013 (Article)

DOI: 10.1021/ac401346x

 Section: [Biochemical Methods](#)

**Homogeneous Bioluminescence Detection of Biomolecules Using Target-Triggered Hybridization Chain Reaction-Mediated Ligation without Luciferase Label**

Qinfeng Xu, Guichi Zhu, and Chun-yang Zhang

pp 6915-6921

Publication Date (Web): June 14, 2013 (Article)

DOI: 10.1021/ac401334r

 Section: [Biochemical Methods](#)

**Combining Fibrinogen-Conjugated Gold Nanoparticles with a Cellulose Membrane for the Mass Spectrometry-Based Detection of Fibrinolytic-Related Proteins**

Wei-Chane Chiu and Chih-Ching Huang

pp 6922-6929

Publication Date (Web): June 21, 2013 (Article)

DOI: 10.1021/ac4013418

 Section: [Enzymes](#)

**Dual-Targeted Nanocarrier Based on Cell Surface Receptor and Intracellular mRNA: An Effective Strategy for Cancer Cell Imaging and Therapy**

Wei Pan, Huijun Yang, Tingting Zhang, Yanhua Li, Na Li, and Bo Tang

pp 6930-6935

Publication Date (Web): June 17, 2013 (Article)

DOI: 10.1021/ac401405n

ACS Section: Pharmaceuticals **High-Resolution Peptide Mapping Separations with MS-Friendly Mobile Phases and Charge-Surface-Modified C18**

Matthew A. Lauber, Stephan M. Koza, Scott A. McCall, Bonnie A. Alden, Pamela C. Iraneta, and Kenneth J. Fountain

pp 6936-6944

Publication Date (Web): June 17, 2013 (Article)

DOI: 10.1021/ac401481z

ACS Section: Biochemical Methods **Magnetic Bead-Based Reverse Colorimetric Immunoassay Strategy for Sensing Biomolecules**

Zhuangqiang Gao, Mingdi Xu, Li Hou, Guonan Chen, and Dianping Tang

pp 6945-6952

Publication Date (Web): June 14, 2013 (Article)

DOI: 10.1021/ac401433p

ACS Section: Biochemical Methods **Predicting Efficacy of Cancer Cell Killing under Hypoxic Conditions with Single Cell DNA Damage Assay**

Yong Qiao and Liyuan Ma

pp 6953-6957

Publication Date (Web): June 18, 2013 (Article)

DOI: 10.1021/ac401543t

ACS Section: Pharmacology **Displacement-type Quartz Crystal Microbalance Immunosensing Platform for Ultrasensitive Monitoring of Small Molecular Toxins**

Dianping Tang, Bing Zhang, Juan Tang, Li Hou, and Guonan Chen

pp 6958-6966

Publication Date (Web): June 21, 2013 (Article)

DOI: 10.1021/ac401599t

ACS Section: Toxicology **Separation of Protein Conformers by Differential Ion Mobility in Hydrogen-Rich Gases**

Alexandre A. Shvartsburg and Richard D. Smith

pp 6967-6973

Publication Date (Web): June 25, 2013 (Article)

DOI: 10.1021/ac4015963

ACS Section: Biochemical Methods

**The Chemical Environments of Oleate Species within Samples of Oleate-Coated PbS Quantum Dots**

Laura C. Cass, Michal Malicki, and Emily A. Weiss

pp 6974-6979

Publication Date (Web): June 20, 2013 (Article)

DOI: 10.1021/ac401623a

 **Section:** Surface Chemistry and Colloids