

Log In Register  Website Demos

ACS Journals C&EN CAS

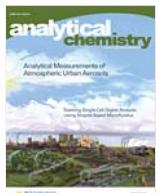


Publications A-Z Home Authors & Reviewers Librarians ACS Members Mobile Help

analytical chemistry

Subscriber access provided by SCIENCE AND TECHNOLOGY KNOWLEDGE SERVICES

Table of Contents



February 7, 2012
Volume 84, Issue 3
Pages 1195-1798

In this issue:

EDITORIAL
ARTICLES

FEATURES
TECHNICAL NOTES

LETTERS TO ANALYTICAL
CHEMISTRY
ADDITIONS AND CORRECTIONS

About the Cover:

The cover shows an urban landscape, highlighting potential sources of atmospheric aerosols. Artwork by Robert Gates. [View the article.](#)

Larger Cover

[Order Print Issue](#)

 indicates the article is freely available through sponsorship by the author or related funding agency. [More about this program.](#)

 Select All For Selected:

EDITORIAL

 Reviews, Perspectives, Features: What's the Difference?

Jonathan V. Sweedler
pp 1195-1195
Publication Date (Web): February 7, 2012 (Editorial)
DOI: 10.1021/ac300107q

Abstract

 Full Text HTML
 Hi-Res PDF [111K]
 PDF w/ Links [90K]

 Subscriber Access

FEATURES

 Analytical Measurements of Atmospheric Urban Aerosol

Shan-Hu Lee and Heather C. Allen
pp 1196-1201
Publication Date (Web): November 3, 2011 (Feature)
DOI: 10.1021/ac201338x



Section: [Air Pollution and Industrial Hygiene](#)

Abstract

 Full Text HTML
 Hi-Res PDF [4696K]
 PDF w/ Links [782K]

 Subscriber Access

Figure 1 of 3

 Teaching Single-Cell Digital Analysis Using Droplet-Based Microfluidics

Majdi Nahaj, Andrew D. Griffiths, and Michael Ryckelynck
pp 1202-1209
Publication Date (Web): December 15, 2011 (Feature)
DOI: 10.1021/ac202645m



Section: [Biochemical Methods](#)

Abstract | Supporting Info

 Full Text HTML
 Hi-Res PDF [2561K]
 PDF w/ Links [412K]

 Subscriber Access

Advertisements

C&EN WEBINARS

Info for Advertisers

SciFinder®

Sign In

Browse By Issue

Select Decade
Select Volume
Select Issue

[List of Issues](#)

Advertisements

AUTOMATE YOUR HAND-HELD PIPETTING
with the **MICROLAB 600 Series**



CLICK HERE
ENTER TO WIN
A MICROLAB 600

Info for Advertisers

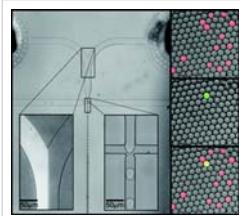


Figure 1 of 6

LETTERS TO ANALYTICAL CHEMISTRY

Sensing Technique of Silver Nanoparticles as Labels for Immunoassay Using Liquid Electrode Plasma Atomic Emission Spectrometry

Nguyen Hoang Tung, Miyuki Chikae, Yoshiaki Ukita, Pham Hung Viet, and Yuzuru Takamura
pp 1210-1213
Publication Date (Web): January 13, 2012 (Letter)
DOI: 10.1021/ac202782b

 Section: [Biochemical Methods](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[1479K\]](#)
 [PDF w/ Links \[220K\]](#)

 [Subscriber Access](#)

Realization of 1×10^6 Theoretical Plates in Liquid Chromatography Using Very Long Pillar Array Columns

Wim De Malsche, Jeff Op De Beeck, Selm De Bruyne, Han Gardeniers, and Gert Desmet
pp 1214-1219
Publication Date (Web): December 30, 2011 (Letter)
DOI: 10.1021/ac203048n

 Section: [Organic Analytical Chemistry](#)

[Abstract](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[4688K\]](#)
 [PDF w/ Links \[331K\]](#)

 [Subscriber Access](#)

Reagentless Biosensor Based on Glucose Oxidase Wired by the Mediator Freely Diffusing in Enzyme Containing Membrane

Alina N. Sekretaryova, Darya V. Vokhmyanina, Tatyana O. Chulanova, Elena E. Karyakina, and Arkady A. Karyakin
pp 1220-1223
Publication Date (Web): December 28, 2011 (Letter)
DOI: 10.1021/ac203056m

 Section: [Biochemical Methods](#)

[Abstract](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[613K\]](#)
 [PDF w/ Links \[219K\]](#)

 [Subscriber Access](#)

Observing Single Cell NF- κ B Dynamics under Stimulant Concentration Gradient

Yousef Awwad, Tao Geng, Albert S. Baldwin, and Chang Lu
pp 1224-1228
Publication Date (Web): January 13, 2012 (Letter)
DOI: 10.1021/ac203209t

 Section: [Biochemical Methods](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[3941K\]](#)
 [PDF w/ Links \[319K\]](#)

 [Subscriber Access](#)

Sensitive Detection of Intracellular Sumoylation via SNAP Tag-Mediated Translation and RNA Polymerase-Based Amplification

Yong Yang and Chun-ying Zhang
pp 1229-1234
Publication Date (Web): January 13, 2012 (Letter)
DOI: 10.1021/ac2032113

 Section: [Biochemical Methods](#)

[Abstract](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[2077K\]](#)
 [PDF w/ Links \[295K\]](#)

 [Subscriber Access](#)

Ratiometric Fluorescence Detection of Mercury Ions in Water by Conjugated Polymer Nanoparticles

Elizabeth S. Childress, Courtney A. Roberts, Desmarie Y. Sherwood, Clare L.M. LeGuyader, and Elizabeth J. Harbom
pp 1235-1239
Publication Date (Web): January 26, 2012 (Letter)
DOI: 10.1021/ac300022y

 Section: [Biochemical Methods](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[1933K\]](#)
 [PDF w/ Links \[284K\]](#)

 [Subscriber Access](#)

Quantifying Particle Coatings Using High-Precision Mass Measurements

Scott M. Knudsen, Marcio G. von Muhlen, and Scott R. Manalis
pp 1240-1242
Publication Date (Web): January 5, 2012 (Letter)
DOI: 10.1021/ac300034r

 Section: [Biochemical Methods](#)

[Abstract](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[665K\]](#)
 [PDF w/ Links \[196K\]](#)

 [Subscriber Access](#)

ARTICLES

Detection and Quantitation of Bacterial Acylhomoserine Lactone Quorum Sensing Molecules via Liquid Chromatography–Isotope Dilution Tandem Mass Spectrometry

Amanda L. May, Mary E. Eisenhauer, Kristen S. Coulston, and Shawn R. Campagna
pp 1243–1252
Publication Date (Web): December 16, 2011 (Article)
DOI: 10.1021/ac202636d

 Section: [Biochemical Methods](#)

[Abstract](#) | [Supporting Info](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[1475K\]](#)
 [PDF w/ Links \[494K\]](#)
 [Subscriber Access](#)

Gold Nanoparticles with Asymmetric Polymerase Chain Reaction for Colorimetric Detection of DNA Sequence

Hua Deng, Yi Xu, Yanhua Liu, Zhijun Che, Huitin Guo, Shuxian Shan, Yun Sun, Xiaofang Liu, Keyang Huang, Xiaowei Ma, Yan Wu, and Xing-Jie Liang
pp 1253–1258
Publication Date (Web): January 13, 2012 (Article)
DOI: 10.1021/ac201713t

 Section: [Biochemical Genetics](#)

[Abstract](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[3236K\]](#)
 [PDF w/ Links \[303K\]](#)
 [Subscriber Access](#)

Evaluating Different Fixation Protocols for Spectral Cytopathology, Part 1

Antonella I. Mazur, Ellen J. Marcisin, Benjamin Bird, Miloš Miljković, and Max Diem
pp 1259–1266
Publication Date (Web): November 21, 2011 (Article)
DOI: 10.1021/ac202046d

 Section: [Biochemical Methods](#)

[Abstract](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[4441K\]](#)
 [PDF w/ Links \[553K\]](#)
 [Subscriber Access](#)

General LC-MS/MS Method Approach to Quantify Therapeutic Monoclonal Antibodies Using a Common Whole Antibody Internal Standard with Application to Preclinical Studies

Hongyan Li, Robert Ortiz, Linh Tran, Michael Hall, Chris Spahr, Ken Walker, John Laudemann, Sterling Miller, Hossein Salimi-Moosavi, and Jean W. Lee
pp 1267–1273
Publication Date (Web): January 5, 2012 (Article)
DOI: 10.1021/ac202792n

 Section: [Immunochemistry](#)

[Abstract](#) | [Supporting Info](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[574K\]](#)
 [PDF w/ Links \[342K\]](#)
 [Subscriber Access](#)

In Situ Trace Analysis of Oil in Water with Mid-Infrared Fiberoptic Chemical Sensors

Yuliya Luzinova, Bogdan Zdyrko, Igor Luzinov, and Boris Mizaikoff
pp 1274–1280
Publication Date (Web): November 21, 2011 (Article)
DOI: 10.1021/ac201664p

 Section: [Toxicology](#)

[Abstract](#) | [Supporting Info](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[1582K\]](#)
 [PDF w/ Links \[442K\]](#)
 [Subscriber Access](#)

Characterization of Pyrogenic Black Carbon by Desorption Atmospheric Pressure Photoionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry

David C. Podgorski, Rasha Hamdan, Amy M. McKenna, Leonard Nyadong, Ryan P. Rodgers, Alan G. Marshall, and William T. Cooper
pp 1281–1287
Publication Date (Web): December 23, 2011 (Article)
DOI: 10.1021/ac202166x

 Section: [Cellulose, Lignin, Paper, and Other Wood Products](#)

[Abstract](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[1925K\]](#)
 [PDF w/ Links \[377K\]](#)
 [Subscriber Access](#)

Preconcentration and Analysis of Trace Volatile Carbonyl Compounds

Mingxiao Li, Souvik Biswas, Michael H. Nantz, Richard M. Higashi, and Xiao-An Fu
pp 1288–1293
Publication Date (Web): December 7, 2011 (Article)
DOI: 10.1021/ac2021757

 Section: [Biochemical Methods](#)

[Abstract](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[2385K\]](#)
 [PDF w/ Links \[294K\]](#)
 [Subscriber Access](#)

Simultaneous Quantification of Eleven Thiopurine Nucleotides by Liquid Chromatography-Tandem Mass Spectrometry

Ute Hofmann, Georg Heinkele, Sieglinde Angelberger, Elke Schaeffeler, Cornelia Lichtenberger, Simon Jaeger, Walter Reinisch, and Matthias Schwab
pp 1294–1301
Publication Date (Web): January 5, 2012 (Article)
DOI: 10.1021/ac2031699

 Section: [Pharmacology](#)

[Abstract](#) | [Supporting Info](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[1517K\]](#)
 [PDF w/ Links \[349K\]](#)
 [Subscriber Access](#)

Controlled Release of Drugs from Gradient Hydrogels for High-Throughput Analysis of Cell–Drug Interactions

Serge Ostrovidov, Nasim Annabi, Azadeh Seidi, Murugan Ramalingam, Fariba Dehghani, Hirokazu Kaji, and Ali Khademhosseini
pp 1302-1309
Publication Date (Web): December 14, 2011 (Article)
DOI: 10.1021/ac202256c

 Section: [Pharmaceuticals](#)

Robust Data Processing and Normalization Strategy for MALDI Mass Spectrometric Imaging

Judith M. Ferville, Claire Carter, Olivier Cloarec, Jeremy K. Nicholson, John C. Lindon, Josephine Bunch, and Elaine Holmes
pp 1310-1319
Publication Date (Web): December 13, 2011 (Article)
DOI: 10.1021/ac201767g

 Section: [Biochemical Methods](#)

Anionic Functionalized Gold Nanoparticle Continuous Full Filling Separations: Importance of Sample Concentration

Michael R. Ivanov and Amanda J. Haes
pp 1320-1326
Publication Date (Web): December 28, 2011 (Article)
DOI: 10.1021/ac2022376

 Section: [Biochemical Methods](#)

Interference Compensation for Thin Layer Coulometric Ion-Selective Membrane Electrodes by the Double Pulse Technique

Ewa Grygolowicz-Pawlak, Apon Numnuam, Panote Thavarungkul, Proespichaya Kanatharana, and Eric Bakker
pp 1327-1335
Publication Date (Web): December 20, 2011 (Article)
DOI: 10.1021/ac202273k

 Section: [Inorganic Analytical Chemistry](#)

Clinically Relevant Microfluidic Magnetophoretic Isolation of Rare-Cell Populations for Diagnostic and Therapeutic Monitoring Applications

Brian D. Plouffe, Madhumita Mahalanabis, Laura H. Lewis, Catherine M. Klapperich, and Shashi K. Murthy
pp 1336-1344
Publication Date (Web): January 12, 2012 (Article)
DOI: 10.1021/ac2022844

 Section: [Biochemical Methods](#)

Integrating Sphere Setup for the Traceable Measurement of Absolute Photoluminescence Quantum Yields in the Near Infrared

Christian Würth, Jutta Pauli, Cornelia Lochmann, Monika Speiles, and Ute Resch-Genger
pp 1345-1352
Publication Date (Web): December 22, 2011 (Article)
DOI: 10.1021/ac2021954

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

Ultrahigh Frequency Voltammetry: Effect of Electrode Material and Frequency of Alternating Potential Modulation on Mass Transport at Hot-Disk Microelectrodes

Andrzej S. Baranski and Aliaksei Boika
pp 1353-1359
Publication Date (Web): December 28, 2011 (Article)
DOI: 10.1021/ac202234v

 Section: [Electric Phenomena](#)

Mapping Spatiotemporal Molecular Distributions Using a Microfluidic Array

N. Scott Lynn, Stuart Tobet, Charles S. Henry, and David S. Dandy
pp 1360-1366
Publication Date (Web): November 29, 2011 (Article)
DOI: 10.1021/ac202314n

 Section: [Biochemical Methods](#)

A New Methodology for Quantitative LSPR Biosensing and Imaging

Marc P. Raphael, Joseph A. Christodoulides, Shawn P. Mulvaney, Michael M. Miller, James P. Long, and Jeff M. Byers
pp 1367-1373
Publication Date (Web): December 17, 2011 (Article)
DOI: 10.1021/ac2023266

 Section: [Biochemical Methods](#)

Abstract

 [Full Text HTML](#)
 [Hi-Res PDF \[4946K\]](#)
 [PDF w/ Links \[491K\]](#)

 [Subscriber Access](#)

Abstract | Supporting Info

 [Full Text HTML](#)
 [Hi-Res PDF \[5139K\]](#)
 [PDF w/ Links \[728K\]](#)

 [Subscriber Access](#)

Abstract | Supporting Info

 [Full Text HTML](#)
 [Hi-Res PDF \[1469K\]](#)
 [PDF w/ Links \[383K\]](#)

 [Subscriber Access](#)

Abstract | Supporting Info

 [Full Text HTML](#)
 [Hi-Res PDF \[683K\]](#)
 [PDF w/ Links \[393K\]](#)

 [Subscriber Access](#)

Abstract | Supporting Info

 [Full Text HTML](#)
 [Hi-Res PDF \[1688K\]](#)
 [PDF w/ Links \[340K\]](#)

 [Subscriber Access](#)

Abstract | Supporting Info

 [Full Text HTML](#)
 [Hi-Res PDF \[508K\]](#)
 [PDF w/ Links \[433K\]](#)

 [Subscriber Access](#)

Abstract | Supporting Info

 [Full Text HTML](#)
 [Hi-Res PDF \[1124K\]](#)
 [PDF w/ Links \[260K\]](#)

 [Subscriber Access](#)

Abstract | Supporting Info

 [Full Text HTML](#)
 [Hi-Res PDF \[2546K\]](#)
 [PDF w/ Links \[356K\]](#)

 [Subscriber Access](#)

Abstract | Supporting Info

 [Full Text HTML](#)
 [Hi-Res PDF \[5010K\]](#)
 [PDF w/ Links \[372K\]](#)

 [Subscriber Access](#)

Small Mesh Size Hydrogel for Functional Photocontrol of Encapsulated Enzymes and Small Probe Molecules

Shuhei Murayama, Fumi Ishizuka, Kaihei Takagi, Hirotaka Inoda, Akira Sano, Tomofumi Santa, and Masaru Kato
pp 1374-1379
Publication Date (Web): December 19, 2011 (Article)
DOI: 10.1021/ac2023603

 Section: [Pharmaceuticals](#)

Integrated Lateral Flow Test Strip with Electrochemical Sensor for Quantification of Phosphorylated Cholinesterase: Biomarker of Exposure to Organophosphorus Agents

Dan Du, Jun Wang, Limin Wang, Donglai Lu, and Yuehe Lin
pp 1380-1385
Publication Date (Web): December 15, 2011 (Article)
DOI: 10.1021/ac202391w

 Section: [Enzymes](#)

Sensitive Luminometric Method for Protein Quantification in Bacterial Cell Lysate Based on Particle Adsorption and Dissociation of Chelated Europium

Sari Pihlasalo, Antti Kulmala, Anita Rozwandowicz-Jansen, Pekka Hänninen, and Harri Härmä
pp 1386-1393
Publication Date (Web): December 14, 2011 (Article)
DOI: 10.1021/ac202417j

 Section: [Biochemical Methods](#)

Experimental and Theoretical Polarized Raman Linear Difference Spectroscopy of Small Molecules with a New Alignment Method Using Stretched Polyethylene Film

Patrycja Kowalska, James R. Cheeseman, Kasra Razmkhah, Ben Green, Laurence A. Nafie, and Alison Rodger
pp 1394-1401
Publication Date (Web): November 28, 2011 (Article)
DOI: 10.1021/ac202432e

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

Hybrid Oxygen-Responsive Reflective Bragg Grating Platforms

Ka Yi Yung, Huina Xu, Ke Liu, Gregory J. Martinez, Frank V. Bright, Michael R. Detty, and Alexander N. Cartwright
pp 1402-1407
Publication Date (Web): December 21, 2011 (Article)
DOI: 10.1021/ac2024816

 Section: [Inorganic Analytical Chemistry](#)

Comparison of Direct and Alternating Current Vacuum Ultraviolet Lamps in Atmospheric Pressure Photoionization

Anu Vaikkinen, Markus Haapala, Hendrik Kersten, Thorsten Benter, Risto Kostiainen, and Tiina J. Kauppinen
pp 1408-1415
Publication Date (Web): January 9, 2012 (Article)
DOI: 10.1021/ac2024574

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

Dynamics of Redox Processes in Ionic Liquids and Their Interplay for Discriminative Electrochemical Sensing

Chunhui Xiao, Abdul Rehman, and Xiangqun Zeng
pp 1416-1424
Publication Date (Web): December 16, 2011 (Article)
DOI: 10.1021/ac2024798

 Section: [Propellants and Explosives](#)

Identification of Low-Abundance Cancer Biomarker Candidate TIMP1 from Serum with Lectin Fractionation and Peptide Affinity Enrichment by Ultrahigh-Resolution Mass Spectrometry

Yeong Hee Ahn, Kwang Hoe Kim, Park Min Shin, Eun Sun Ji, Hoguen Kim, and Jong Shin Yoo
pp 1425-1431
Publication Date (Web): December 23, 2011 (Article)
DOI: 10.1021/ac2024987

 Section: [Enzymes](#)

Use of Negative Dielectrophoresis for Selective Elution of Protein-Bound Particles

Mehdi Javannard, Sam Emaminejad, Robert W. Dutton, and Ronald W. Davis
pp 1432-1438
Publication Date (Web): December 16, 2011 (Article)
DOI: 10.1021/ac202508u

 Section: [Biochemical Methods](#)

Microfluidic Dual Emitter Electrospray Ionization Source for Accurate Mass Measurements

Andrew G. Chambers and J. Michael Ramsey
pp 1446-1451
Publication Date (Web): January 5, 2012 (Article)
DOI: 10.1021/ac202603s

Abstract

 Full Text HTML
 Hi-Res PDF [1099K]
 PDF w/ Links [275K]

 Subscriber Access

Abstract

 Full Text HTML
 Hi-Res PDF [1849K]
 PDF w/ Links [275K]

 Subscriber Access

Abstract | Supporting Info

 Full Text HTML
 Hi-Res PDF [1039K]
 PDF w/ Links [341K]

 Subscriber Access

Abstract | Supporting Info

 Full Text HTML
 Hi-Res PDF [2039K]
 PDF w/ Links [475K]

 Subscriber Access

Abstract

 Full Text HTML
 Hi-Res PDF [4034K]
 PDF w/ Links [381K]

 Subscriber Access

Abstract | Supporting Info

 Full Text HTML
 Hi-Res PDF [620K]
 PDF w/ Links [387K]

 Subscriber Access

Abstract | Supporting Info

 Full Text HTML
 Hi-Res PDF [4066K]
 PDF w/ Links [571K]

 Subscriber Access

Abstract

 Full Text HTML
 Hi-Res PDF [1244K]
 PDF w/ Links [305K]

 Subscriber Access

Abstract

 Full Text HTML
 Hi-Res PDF [3212K]
 PDF w/ Links [369K]

 Subscriber Access

Application of Time-of-Flight Aerosol Mass Spectrometry for the Online Measurement of Gaseous Molecular Iodine

Michael Kundel, Ru-Jin Huang, Ute R. Thorenz, Janine Bosle, Moritz J. D. Mann, Marco Ries, and Thorsten Hoffmann
pp 1439-1445
Publication Date (Web): December 15, 2011 (Article)
DOI: 10.1021/ac202527a

Section: [Air Pollution and Industrial Hygiene](#)

Section: [Organic Analytical Chemistry](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[1168K\]](#)
 [PDF w/ Links \[295K\]](#)

 [Subscriber Access](#)

Sensitive Chemiluminescent Imaging for Chemoselective Analysis of Glycan Expression on Living Cells Using a Multifunctional Nanoprobe

En Han, Lin Ding, Ruocan Qian, Lei Bao, and Huangxian Ju
pp 1452-1458
Publication Date (Web): January 3, 2012 (Article)
DOI: 10.1021/ac203489e

Section: [Biochemical Methods](#)

Real-Time Shape-Based Particle Separation and Detailed *in Situ* Particle Shape Characterization

Josef Beranek, Dan Imre, and Alla Zelenyuk
pp 1459-1465
Publication Date (Web): January 4, 2012 (Article)
DOI: 10.1021/ac202235z

Section: [Air Pollution and Industrial Hygiene](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[2000K\]](#)
 [PDF w/ Links \[242K\]](#)

 [Subscriber Access](#)

[Abstract](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[3678K\]](#)
 [PDF w/ Links \[405K\]](#)

 [Subscriber Access](#)

Upconversion Fluorescence Resonance Energy Transfer Based Biosensor for Ultrasensitive Detection of Matrix Metalloproteinase-2 in Blood

Yuhui Wang, Pei Shen, Chunya Li, Yanying Wang, and Zhihong Liu
pp 1466-1473
Publication Date (Web): January 10, 2012 (Article)
DOI: 10.1021/ac202627b

Section: [Enzymes](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[1704K\]](#)
 [PDF w/ Links \[347K\]](#)

 [Subscriber Access](#)

[Abstract](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[4225K\]](#)
 [PDF w/ Links \[360K\]](#)

 [Subscriber Access](#)

Reduction of Matrix Effects in Liquid Chromatography-Electrospray Ionization-Mass Spectrometry by Dilution of the Sample Extracts: How Much Dilution is Needed?

Helen Stahnke, Stefan Kittlaus, Günther Kempe, and Lutz Alder
pp 1474-1482
Publication Date (Web): December 31, 2011 (Article)
DOI: 10.1021/ac202661j

Section: [Food and Feed Chemistry](#)

[Abstract](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[4225K\]](#)
 [PDF w/ Links \[360K\]](#)

 [Subscriber Access](#)

Nonesterified Fatty Acid Determination for Functional Lipidomics: Comprehensive Ultrahigh Performance Liquid Chromatography-Tandem Mass Spectrometry Quantitation, Qualification, and Parameter Prediction

Christian Hellmuth, Martina Weber, Berthold Koletzko, and Wolfgang Peissner
pp 1483-1490
Publication Date (Web): January 5, 2012 (Article)
DOI: 10.1021/ac202602u

Section: [Biochemical Methods](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[3598K\]](#)
 [PDF w/ Links \[467K\]](#)

 [Subscriber Access](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[659K\]](#)
 [PDF w/ Links \[280K\]](#)

 [Subscriber Access](#)

Quantitative Characterization of Individual Microdroplets using Surface-Enhanced Raman Scattering Spectroscopy

Christopher D. Syme, Chiara Martino, Rama Yusvana, Narayana M. S. Sirimuthu, and Jonathan M. Cooper
pp 1491-1495
Publication Date (Web): December 16, 2011 (Article)
DOI: 10.1021/ac202705a

Section: [Organic Analytical Chemistry](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[3598K\]](#)
 [PDF w/ Links \[467K\]](#)

 [Subscriber Access](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[3650K\]](#)
 [PDF w/ Links \[301K\]](#)

 [Subscriber Access](#)

Thin Layer Chromatography/Plasma Assisted Multiwavelength Laser Desorption Ionization Mass Spectrometry for Facile Separation and Selective Identification of Low Molecular Weight Compounds

Jialing Zhang, Zhigui Zhou, Jianwang Yang, Wei Zhang, Yu Bai, and Huwei Liu
pp 1496-1503
Publication Date (Web): December 15, 2011 (Article)
DOI: 10.1021/ac202732y

Section: [Organic Analytical Chemistry](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[4526K\]](#)
 [PDF w/ Links \[435K\]](#)

 [Subscriber Access](#)

Superlocalization Spectral Imaging Microscopy of a Multicolor Quantum Dot Complex

Xingbo Shi, Zhongqiu Xie, Yuehong Song, Yongjun Tan, Edward S. Yeung, and Hongwei Gai
pp 1504-1509
Publication Date (Web): January 24, 2012 (Article)
DOI: 10.1021/ac202784h

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

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF \[4526K\]](#)
 [PDF w/ Links \[435K\]](#)

 [Subscriber Access](#)

Self-Regulated, Droplet-Based Sample Chopper for Microfluidic Absorbance Detection

Kennon S. Deal and Christopher J. Easley
pp 1510-1516
Publication Date (Web): December 22, 2011 (Article)
DOI: 10.1021/ac202791d

 Section: [Biochemical Methods](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF](#) [4622K]
 [PDF w/ Links](#) [343K]

 [Subscriber Access](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF](#) [1631K]
 [PDF w/ Links](#) [308K]

 [Subscriber Access](#)

Chemical Characterization of Crude Petroleum Using Nanospray Desorption Electrospray Ionization Coupled with High-Resolution Mass Spectrometry

Peter A. Eckert, Patrick J. Roach, Alexander Laskin, and Julia Laskin
pp 1517-1525
Publication Date (Web): December 13, 2011 (Article)
DOI: 10.1021/ac202801g

 Section: [Fossil Fuels, Derivatives, and Related Products](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF](#) [3595K]
 [PDF w/ Links](#) [454K]

 [Subscriber Access](#)

Detection and Quantification of Bacterial Autofluorescence at the Single-Cell Level by a Laboratory-Built High-Sensitivity Flow Cytometer

Lingling Yang, Yingxing Zhou, Shaobin Zhu, Tianxun Huang, Lina Wu, and Xiaomei Yan
pp 1526-1532
Publication Date (Web): January 6, 2012 (Article)
DOI: 10.1021/ac203132z

 Section: [Biochemical Methods](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF](#) [1560K]
 [PDF w/ Links](#) [355K]

 [Subscriber Access](#)

Evaluation of Front-End Higher Energy Collision-Induced Dissociation on a Benchtop Dual-Pressure Linear Ion Trap Mass Spectrometer for Shotgun Proteomics

Michael S. Bereman, Jesse D. Canterbury, Jarrett D. Egertson, Julie Horner, Philip M. Remes, Jae Schwartz, Vlad Zabrouskov, and Michael J. MacCoss
pp 1533-1539
Publication Date (Web): December 20, 2011 (Article)
DOI: 10.1021/ac203210a

 Section: [Biochemical Methods](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF](#) [4278K]
 [PDF w/ Links](#) [448K]

 [Subscriber Access](#)

Linear Ion Trap MSⁿ of Enzymatically Synthesized 13C-Labeled Fructans Revealing Differentiating Fragmentation Patterns of β (1-2) and β (1-6) Fructans and Providing a Tool for Oligosaccharide Identification in Complex Mixtures

Scott Harrison, Hong Xue, Geoff Lane, Silas Villas-Boas, and Susanne Rasmussen
pp 1540-1548
Publication Date (Web): December 6, 2011 (Article)
DOI: 10.1021/ac202816y

 Section: [Biochemical Methods](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF](#) [775K]
 [PDF w/ Links](#) [360K]

 [Subscriber Access](#)

Cancer Stem Cell Sorting from Colorectal Cancer Cell Lines by Sedimentation Field Flow Fractionation

Carole Mélin, Aurélie Perraud, Hussein Akil, Marie-Odile Jauberteau, Philippe Cardot, Muriel Mathonnet, and Serge Battu
pp 1549-1556
Publication Date (Web): December 17, 2011 (Article)
DOI: 10.1021/ac202797z

 Section: [Biochemical Methods](#)

[Abstract](#)

 [Full Text HTML](#)
 [Hi-Res PDF](#) [878K]
 [PDF w/ Links](#) [407K]

 [Subscriber Access](#)

Enhanced Sensitivity for High Spatial Resolution Lipid Analysis by Negative Ion Mode Matrix Assisted Laser Desorption Ionization Imaging Mass Spectrometry

Peggi M. Angel, Jeffrey M. Spraggins, H. Scott Baldwin, and Richard Caprioli
pp 1557-1564
Publication Date (Web): January 4, 2012 (Article)
DOI: 10.1021/ac202383m

 Section: [Biochemical Methods](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF](#) [3049K]
 [PDF w/ Links](#) [435K]

 [Subscriber Access](#)

Determination of Suitable Column Geometries by Means of van Deemter and Kinetic Plots for Isothermal and Isocratic Method Development in High-Temperature Liquid Chromatography Isotope Ratio Mass Spectrometry

Paul Ermisch, Steffen Wiese, Harald Weber, and Thorsten Teutenberg
pp 1565-1571
Publication Date (Web): January 20, 2012 (Article)
DOI: 10.1021/ac202819y

 Section: [Organic Analytical Chemistry](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF](#) [1330K]
 [PDF w/ Links](#) [390K]

 [Subscriber Access](#)

Plasma Pencil Atmospheric Mass Spectrometry Detection of Positive Ions from Micronutrients Emitted from Surfaces

M. Jeanette Stein, Edward Lo, David G. Castner, and Buddy D. Ratner
pp 1572-1578
Publication Date (Web): January 13, 2012 (Article)
DOI: 10.1021/ac2028134

 Section: [Organic Analytical Chemistry](#)

[Abstract](#) | [Supporting Info](#)

 [Full Text HTML](#)
 [Hi-Res PDF](#) [1530K]
 [PDF w/ Links](#) [390K]

 [Subscriber Access](#)

 Section: [Animal Nutrition](#)**Fully Enclosed Microfluidic Paper-Based Analytical Devices**

Kevin M. Schilling, Anna L. Lepore, Jason A. Kurian, and Andres W. Martinez
pp 1579-1585
Publication Date (Web): January 9, 2012 (Article)
DOI: 10.1021/ac202837s

[Abstract](#) | [Supporting Info](#) [Full Text HTML](#)
 [Hi-Res PDF \[1587K\]](#)
 [PDF w/ Links \[366K\]](#) [Subscriber Access](#) Section: [Biochemical Methods](#)[Abstract](#) | [Supporting Info](#) [Full Text HTML](#)
 [Hi-Res PDF \[2808K\]](#)
 [PDF w/ Links \[391K\]](#) [Subscriber Access](#)**Measurement and Differentiation of Ligand-Induced Calmodulin Conformations by Dual Polarization Interferometry**

Kristin E. D. Coan, Marcus J. Swann, and Johannes Ottl
pp 1586-1591
Publication Date (Web): December 22, 2011 (Article)
DOI: 10.1021/ac202844e

[Abstract](#) | [Supporting Info](#) [Full Text HTML](#)
 [Hi-Res PDF \[2042K\]](#)
 [PDF w/ Links \[375K\]](#) [Subscriber Access](#) Section: [Biochemical Methods](#)**Multidimensional Protein Identification Technology-Selected Reaction Monitoring Improving Detection and Quantification for Protein Biomarker Studies**

Christoph Krisp, Matthew J. McKay, Dirk A. Wolters, and Mark P. Molloy
pp 1592-1600
Publication Date (Web): January 5, 2012 (Article)
DOI: 10.1021/ac2028485

[Abstract](#) | [Supporting Info](#) [Full Text HTML](#)
 [Hi-Res PDF \[3138K\]](#)
 [PDF w/ Links \[363K\]](#) [Subscriber Access](#) Section: [Biochemical Methods](#)**Measuring Binding and Speciation of Hydrophobic Organic Chemicals at Controlled Freely Dissolved Concentrations and without Phase Separation**

Varvara Gouliarmou, Kilian E. C. Smith, Lis Wollesen de Jonge, and Philipp Mayer
pp 1601-1608
Publication Date (Web): December 11, 2011 (Article)
DOI: 10.1021/ac2028497

[Abstract](#) | [Supporting Info](#) [Full Text HTML](#)
 [Hi-Res PDF \[615K\]](#)
 [PDF w/ Links \[334K\]](#) [Subscriber Access](#) Section: [Water](#)**Coupled Electrochemical Reactions at Bipolar Microelectrodes and Nanoelectrodes**

Joshua P. Guerrette, Stephen M. Oja, and Bo Zhang
pp 1609-1616
Publication Date (Web): January 9, 2012 (Article)
DOI: 10.1021/ac2028672

[Abstract](#) | [Supporting Info](#) [Full Text HTML](#)
 [Hi-Res PDF \[3409K\]](#)
 [PDF w/ Links \[412K\]](#) [Subscriber Access](#) Section: [Electrochemistry](#)**Capillary Zone Electrophoresis-Electrospray Ionization-Tandem Mass Spectrometry as an Alternative Proteomics Platform to Ultraperformance Liquid Chromatography-Electrospray Ionization-Tandem Mass Spectrometry for Samples of Intermediate Complexity**

Yihan Li, Matthew M. Champion, Liangliang Sun, Patricia A. DiGiuseppe Champion, Roza Wojcik, and Norman J. Dovichi
pp 1617-1622
Publication Date (Web): December 19, 2011 (Article)
DOI: 10.1021/ac202899p

[Abstract](#) | [Supporting Info](#) [Full Text HTML](#)
 [Hi-Res PDF \[785K\]](#)
 [PDF w/ Links \[297K\]](#) [Subscriber Access](#) Section: [Biochemical Methods](#)**Highly Sensitive Detection of Protein with Aptamer-Based Target-Triggering Two-Stage Amplification**

Zhen-zhu Zhang and Chun-yang Zhang
pp 1623-1629
Publication Date (Web): January 8, 2012 (Article)
DOI: 10.1021/ac2029002

[Abstract](#) | [Supporting Info](#) [Full Text HTML](#)
 [Hi-Res PDF \[1281K\]](#)
 [PDF w/ Links \[351K\]](#) [Subscriber Access](#) Section: [Biochemical Methods](#)**Infrared Laser Ablation Atmospheric Pressure Photoionization Mass Spectrometry**

Anu Vaikkinen, Bindesh Shrestha, Tiina J. Kauppinen, Akos Vertes, and Risto Kostiainen
pp 1630-1636
Publication Date (Web): January 4, 2012 (Article)
DOI: 10.1021/ac202905y

[Abstract](#) | [Supporting Info](#) [Full Text HTML](#)
 [Hi-Res PDF \[2689K\]](#)
 [PDF w/ Links \[400K\]](#) [Subscriber Access](#) Section: [Biochemical Methods](#)**GC/MS Method for Positive Detection of *Bacillus anthracis* Endospores**

Dan Li, Tai V. Truong, Teri M. Bills, Brian C. Holt, Douglas N. VanDerwerken, John R. Williams, Abhilasha Acharya, Richard A. Robison, H. Dennis Tolley, and Milton L. Lee
pp 1637-1644
Publication Date (Web): December 21, 2011 (Article)
DOI: 10.1021/ac202606x

[Abstract](#) | [Supporting Info](#) [Full Text HTML](#)
 [Hi-Res PDF \[682K\]](#)
 [PDF w/ Links \[298K\]](#) [Subscriber Access](#) Section: [Toxicology](#)

□ Detection of Femtomolar Proteins by Nonfluorescent ZnS Nanocrystal Clusters

Jingjing Yao, Xiaogang Han, Shang Zeng, and Wenwan Zhong

pp 1645-1652

Publication Date (Web): January 6, 2012 (Article)

DOI: 10.1021/ac202910y

 Section: [Biochemical Methods](#)**Slow Histidine H/D Exchange Protocol for Thermodynamic Analysis of Protein Folding and Stability Using Mass Spectrometry**

Duc T. Tran, Sambuddha Banerjee, Abdu I. Alayash, Alvin L. Crumbliss, and Michael C. Fitzgerald

pp 1653-1660

Publication Date (Web): December 20, 2011 (Article)

DOI: 10.1021/ac202927p

 Section: [Biochemical Methods](#)**Validation of Paper-Based Assay for Rapid Blood Typing**

Mohammad Al-Tamimi, Wei Shen, Rania Zeineddine, Huy Tran, and Gil Garnier

pp 1661-1668

Publication Date (Web): December 12, 2011 (Article)

DOI: 10.1021/ac202948t

 Section: [Immunochemistry](#)**Selection and Characterization of PCB-Binding DNA Aptamers**

Jaytry Mehta, Elsa Rouah-Martin, Bieke Van Dorst, Bert Maes, Wouter Herrebout, Marie-Louise Scippo, Freddy Dardenne, Ronny Blust, and Johan Robbens

pp 1669-1676

Publication Date (Web): December 14, 2011 (Article)

DOI: 10.1021/ac202960b

 Section: [Toxicology](#)**Electrochemical Sensing of Aptamer-Facilitated Virus Immunoshielding**

Mahmoud Labib, Anna S. Zamay, Darija Muharemagic, Alexey Chechik, John C. Bell, and Maxim V. Berezovski

pp 1677-1686

Publication Date (Web): December 28, 2011 (Article)

DOI: 10.1021/ac202978r

 Section: [Pharmaceuticals](#)[Abstract](#) | [Supporting Info](#) [Full Text HTML](#) [Hi-Res PDF \[1428K\]](#) [PDF w/ Links \[337K\]](#) [Subscriber Access](#)[Abstract](#) | [Supporting Info](#) [Full Text HTML](#) [Hi-Res PDF \[1087K\]](#) [PDF w/ Links \[392K\]](#) [Subscriber Access](#)[Abstract](#) [Full Text HTML](#) [Hi-Res PDF \[2861K\]](#) [PDF w/ Links \[434K\]](#) [Subscriber Access](#)[Abstract](#) | [Supporting Info](#) [Full Text HTML](#) [Hi-Res PDF \[1423K\]](#) [PDF w/ Links \[372K\]](#) [Subscriber Access](#)[Abstract](#) | [Supporting Info](#) [Full Text HTML](#) [Hi-Res PDF \[3787K\]](#) [PDF w/ Links \[558K\]](#) [Subscriber Access](#)**□ Ultrasensitive Detection of Bacteria by Microchip Electrophoresis Based on Multiple-Concentration Approaches Combining Chitosan Sweeping, Field-Amplified Sample Stacking, and Reversed-Field Stacking**

Zhi-Fang Wang, Shuang Cheng, Shu-Li Ge, Huan Wang, Qing-Jiang Wang, Pin-Gang He, and Yu-Zhi Fang

pp 1687-1694

Publication Date (Web): January 12, 2012 (Article)

DOI: 10.1021/ac202991u

 Section: [Biochemical Methods](#)[Abstract](#) | [Supporting Info](#) [Full Text HTML](#) [Hi-Res PDF \[1331K\]](#) [PDF w/ Links \[321K\]](#) [Subscriber Access](#)**□ Qualitative and Quantitative Analysis of Tumor Cell Metabolism via Stable Isotope Labeling Assisted Microfluidic Chip Electrospray Ionization Mass Spectrometry**

Qiushui Chen, Jing Wu, Yandong Zhang, and Jin-Ming Lin

pp 1695-1701

Publication Date (Web): January 9, 2012 (Article)

DOI: 10.1021/ac300003k

 Section: [Biochemical Methods](#)[Abstract](#) | [Supporting Info](#) [Full Text HTML](#) [Hi-Res PDF \[3069K\]](#) [PDF w/ Links \[416K\]](#) [Subscriber Access](#)**□ Nanoparticle-Enhanced Surface Plasmon Resonance Detection of Proteins at Attomolar Concentrations: Comparing Different Nanoparticle Shapes and Sizes**

Min Jeong Kwon, Jaeyoung Lee, Alastair W. Wark, and Hye Jin Lee

pp 1702-1707

Publication Date (Web): January 6, 2012 (Article)

DOI: 10.1021/ac202957h

 Section: [Biochemical Methods](#)[Abstract](#) | [Supporting Info](#) [Full Text HTML](#) [Hi-Res PDF \[1659K\]](#) [PDF w/ Links \[320K\]](#) [Subscriber Access](#)**□ Screening and Selective Quantification of Illicit Drugs in Wastewater by Mixed-Mode Solid-Phase Extraction and Quadrupole-Time-of-Flight Liquid Chromatography–Mass Spectrometry**

Iria González-Mariño, José Benito Quintana, Isaac Rodríguez, Marta González-Díez, and Rafael Cela

pp 1708-1717

Publication Date (Web): December 20, 2011 (Article)

DOI: 10.1021/ac202989e

 Section: [Toxicology](#)[Abstract](#) | [Supporting Info](#) [Full Text HTML](#) [Hi-Res PDF \[1699K\]](#) [PDF w/ Links \[503K\]](#) [Subscriber Access](#)

Evaluation of Electrospray Ionization Mass Spectrometry as a Tool for Characterization of Small Soluble Protein Aggregates

Guanbo Wang, Alex J. Johnson, and Igor A. Kaltashov
pp 1718-1724
Publication Date (Web): December 19, 2011 (Article)
DOI: 10.1021/ac203017x

 Section: [Biochemical Methods](#)

[Abstract](#) | [Supporting Info](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[2719K\]](#)
 [PDF w/ Links \[405K\]](#)
 [Subscriber Access](#)

Resolution Enhancement of Ion Mobility Spectrometry by Improving the Three-Zone Properties of the Bradbury-Nielsen Gate

Yongzhi Du, Weiguo Wang, and Haiyang Li
pp 1725-1731
Publication Date (Web): December 23, 2011 (Article)
DOI: 10.1021/ac203013u

 Section: [Organic Analytical Chemistry](#)

[Abstract](#) | [Supporting Info](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[2905K\]](#)
 [PDF w/ Links \[416K\]](#)
 [Subscriber Access](#)

NanoHPLC-nanoESI⁺-MS/MS Quantitation of Bis-N7-Guanine DNA–DNA Cross-Links in Tissues of B6C3F1 Mice Exposed to subppm Levels of 1,3-Butadiene

Dewakar Sangaraju, Melissa Goggin, Vernon Walker, James Swenberg, and Natalia Tretyakova
pp 1732-1739
Publication Date (Web): January 5, 2012 (Article)
DOI: 10.1021/ac203079c

 Section: [Toxicology](#)

[Abstract](#) | [Supporting Info](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[2027K\]](#)
 [PDF w/ Links \[420K\]](#)
 [Subscriber Access](#)

Fast Characterization of Polyelectrolyte Complexes by Inline Coupling of Capillary Electrophoresis to Taylor Dispersion Analysis

Laurent Leclercq and Hervé Cottet
pp 1740-1743
Publication Date (Web): January 20, 2012 (Article)
DOI: 10.1021/ac203208k

 Section: [Physical Properties of Synthetic High Polymers](#)

[Abstract](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[539K\]](#)
 [PDF w/ Links \[245K\]](#)
 [Subscriber Access](#)

Postacquisition Mass Resolution Improvement in Time-of-Flight Secondary Ion Mass Spectrometry

Steven J. Pachuta and Paul R. Vlasak
pp 1744-1753
Publication Date (Web): January 6, 2012 (Article)
DOI: 10.1021/ac203229m

 Section: [Surface Chemistry and Colloids](#)

[Abstract](#) | [Supporting Info](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[2687K\]](#)
 [PDF w/ Links \[510K\]](#)
 [Subscriber Access](#)

High-Throughput Analysis of Ligand-Induced Internalization of β_2 -Adrenoceptors Using the Coiled-Coil Tag–Probe Method

Yuki Takeda, Yoshiaki Yano, and Katsumi Matsuzaki
pp 1754-1759
Publication Date (Web): January 13, 2012 (Article)
DOI: 10.1021/ac203231n

 Section: [Pharmacology](#)

[Abstract](#) | [Supporting Info](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[2849K\]](#)
 [PDF w/ Links \[289K\]](#)
 [Subscriber Access](#)

TECHNICAL NOTES

Portable Electrochemical Surface-Enhanced Raman Spectroscopy System for Routine Spectroelectrochemical Analysis

A. M. Robinson, S. G. Harroun, J. Bergman, and C. L. Brosseau
pp 1760-1764
Publication Date (Web): December 27, 2011 (Technical Note)
DOI: 10.1021/ac2030078

 Section: [Organic Analytical Chemistry](#)

[Abstract](#) | [Supporting Info](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[2019K\]](#)
 [PDF w/ Links \[275K\]](#)
 [Subscriber Access](#)

Mass Spectrometric Identification of Water-Soluble Gold Nanocluster Fractions from Sequential Size-Selective Precipitation

Xiupei Yang, Yan Su, Man Chin Paau, and Martin M. F. Choi
pp 1765-1771
Publication Date (Web): January 9, 2012 (Technical Note)
DOI: 10.1021/ac2029908

 Section: [Surface Chemistry and Colloids](#)

[Abstract](#) | [Supporting Info](#)
 [Full Text HTML](#)
 [Hi-Res PDF \[1855K\]](#)
 [PDF w/ Links \[414K\]](#)
 [Subscriber Access](#)

ADDITIONS AND CORRECTIONS

PCR-Free Telomerase Assay Using Chronocoulometry Coupled with Hexaammineruthenium(III) Chloride

Shinobu Sato and Shigeori Takenaka

pp 1772-1775

Publication Date (Web): January 7, 2012 (Technical Note)

DOI: 10.1021/ac202233m

 Section: Enzymes

Abstract

 Full Text HTML
 Hi-Res PDF [871K]
 PDF w/ Links [246K] Subscriber Access**Fabrication of Microfluidic Devices Containing Patterned Microwell Arrays**

W. Hampton Henley, Patty J. Dennis, and J. Michael Ramsey

pp 1776-1780

Publication Date (Web): December 22, 2011 (Technical Note)

DOI: 10.1021/ac202445g

 Section: Biochemical Methods

Abstract

 Full Text HTML
 Hi-Res PDF [3693K]
 PDF w/ Links [231K] Subscriber Access**Optimization of Electron Transfer Dissociation via Informed Selection of Reagents and Operating Parameters**

Philip D. Compton, Joseph V. Strukl, Dina L. Bai, Jeffrey Shabanowitz, and Donald F. Hunt

pp 1781-1785

Publication Date (Web): December 19, 2011 (Technical Note)

DOI: 10.1021/ac202807h

 Section: Biochemical Methods

Abstract | Supporting Info

 Full Text HTML
 Hi-Res PDF [892K]
 PDF w/ Links [304K] Subscriber Access**Enzyme-Linked Immunosorbent Assay-Based Method to Quantify the Association of Small Molecules with Aggregated Amyloid Peptides**

Christina C. Capule and Jerry Yang

pp 1786-1791

Publication Date (Web): January 5, 2012 (Technical Note)

DOI: 10.1021/ac2030859

 Section: Biochemical Methods

Abstract | Supporting Info

 Full Text HTML
 Hi-Res PDF [1636K]
 PDF w/ Links [293K] Subscriber Access**Improved Electrochemical Microsensor for the Real-Time Simultaneous Analysis of Endogenous Nitric Oxide and Carbon Monoxide Generation**

Sarah S. Park, Jiyeon Kim, and Youngmi Lee

pp 1792-1796

Publication Date (Web): January 20, 2012 (Technical Note)

DOI: 10.1021/ac2031628

 Section: Biochemical Methods

Abstract | Supporting Info

 Full Text HTML
 Hi-Res PDF [1270K]
 PDF w/ Links [314K] Subscriber Access**Correction to Comparison of Annular Diffusion Denuder and High Volume Air Samplers for Measuring Per- and Polyfluoroalkyl Substances in the Atmosphere**

Lutz Ahrens, Mahiba Shoeib, Tom Harner, Douglas A. Lane, Rui Guo, and Eric J. Reiner

pp 1797-1797

Publication Date (Web): January 20, 2012 (Addition/Correction)

DOI: 10.1021/ac300035j

 Section: Air Pollution and Industrial Hygiene

Abstract

Original Article

 Full Text HTML
 Hi-Res PDF [115K]
 PDF w/ Links [116K] Subscriber Access**Correction to Electrical Readout of Protein Microarrays on Regular Glass Slides**

Diana Bonilla, María Mallén, Roberto de la Rica, César Fernández-Sánchez, and Antonio Baldi

pp 1798-1798

Publication Date (Web): January 24, 2012 (Addition/Correction)

DOI: 10.1021/ac300076d

 Section: Biochemical Methods

Abstract

Original Article

 Full Text HTML
 Hi-Res PDF [101K]
 PDF w/ Links [102K] Subscriber Access Select All For Selected Content:1155 Sixteenth Street N.W.
Washington, DC 20036**Products**
Journals A-Z
Books
C&EN
C&EN Archives
ACS Legacy Archives
ACS Mobile
Video**User Resources**
About Us
ACS Members
Librarians
Authors & Reviewers
Website Demos**Support**
Get Help
For Advertisers
Institutional Sales
Live Chat**Partners**
Atypon
C O P E
COUNTER
crossref
ORCID Open Researcher & Contributor ID
PORTICO

Search ACS Publications

Search Anywhere

Search

Copyright © 2012 American Chemical Society