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July 1, 2010

Volume 82, Issue 13

Pages 5397-5916

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- Accelerated Articles
- Articles
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- Additions and Corrections

About the Cover:

Advances in nanotechnology have enabled the development of nanoporous membranes based on carbon nanotubes, which, by virtue of their exceptional properties, constitute excellent supports for analytical processes, including the selective separation of some molecules. The cover shows a representation of a carbon nanotube membrane formed by hexagonally packing 12 nanotubes in a periodic cell. Miguel Valcárcel Jr. created the cover graphic. [View the article.](#)

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Editorial

Research at the Intersection of the Physical and Life Sciences

Royce Murray

p 5397

Publication Date (Web): June 30, 2010 (Editorial)

DOI: 10.1021/ac101475t

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Research Profile

A chip for counting cells

Erika Gebel

p 5398

Publication Date (Web): May 14, 2010 (Research Profile)

DOI: 10.1021/ac1011552

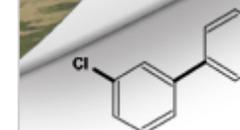
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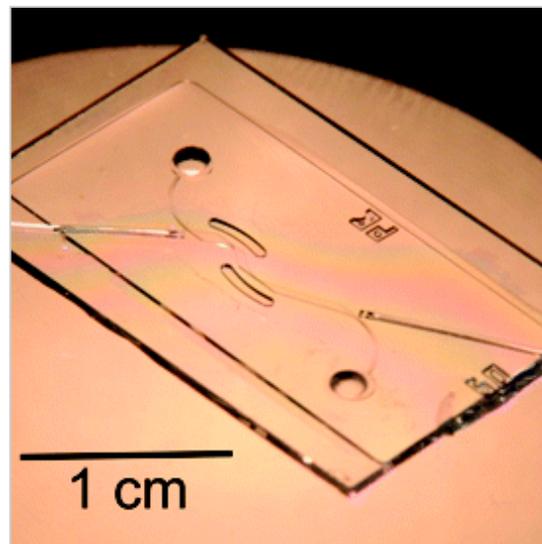
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Features

The Potential of Carbon Nanotube Membranes for Analytical Separations

A. I. López-Lorente, B. M. Simonet and M. Valcárcel

pp 5399-5407

Publication Date (Web): May 24, 2010 (Feature)

DOI: 10.1021/ac902629n

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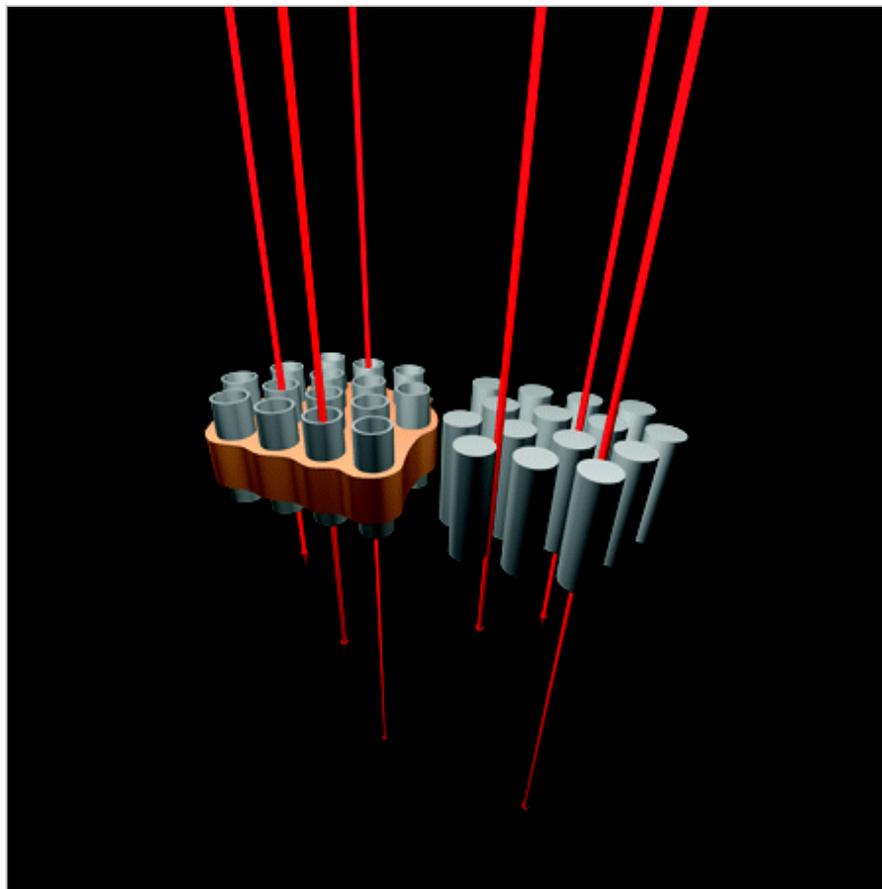


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Using Inexpensive Jell-O Chips for Hands-On Microfluidics Education

Cheng Wei T. Yang, Eric Ouellet and Eric T. Lagally

pp 5408-5414

Publication Date (Web): May 25, 2010 (Feature)

DOI: 10.1021/ac902926x

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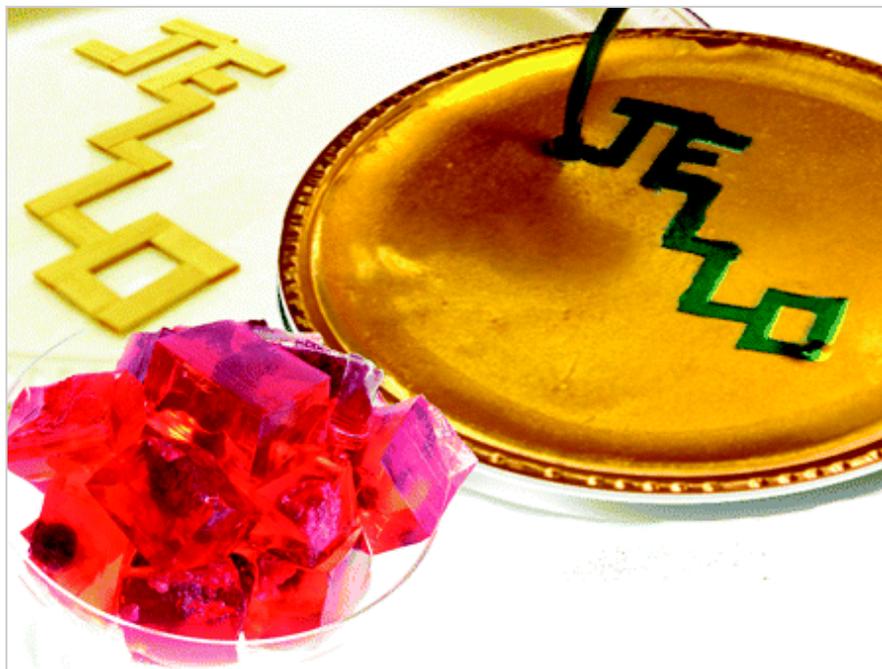


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Letter to Analytical Chemistry

Conformational Analysis of Membrane Proteins in Phospholipid Bilayer Nanodiscs by Hydrogen Exchange Mass Spectrometry

Christine M. Hebling, Christopher R. Morgan, Darrel W. Stafford, James W. Jorgenson, Kasper D. Rand and John R. Engen

pp 5415-5419

Publication Date (Web): June 2, 2010 (Letter)

DOI: 10.1021/ac100962c

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Combining Voltammetry with HPLC: Application to Electro-Oxidation of Glycerol

Youngkook Kwon and Marc T. M. Koper

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pp 5420-5424

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DOI: 10.1021/ac101058t

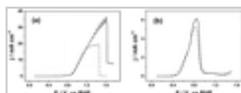


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Selective Detection and Quantitation of Organic Molecule Crystallization by Second Harmonic Generation Microscopy

Duangporn Wanapun, Umesh S. Kestur, David J. Kissick, Garth J. Simpson and Lynne S. Taylor

pp 5425-5432

Publication Date (Web): June 1, 2010 (Accelerated Article)

DOI: 10.1021/ac100564f

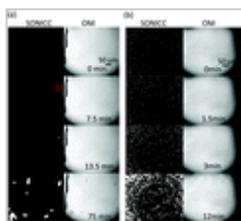


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Multiparametric Optimization of ^{31}P NMR Spectroscopic Analysis of Phospholipids in Crude Tissue Extracts. 1. Chemical Shift and Signal Separation

Norbert W. Lutz and Patrick J. Cozzone

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pp 5433-5440

Publication Date (Web): May 5, 2010 (Article)

DOI: 10.1021/ac100514n

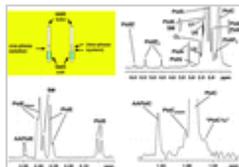


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Multiparametric Optimization of ^{31}P NMR Spectroscopic Analysis of Phospholipids in Crude Tissue Extracts. 2. Line Width and Spectral Resolution

Norbert W. Lutz and Patrick J. Cozzone

pp 5441-5446

Publication Date (Web): May 5, 2010 (Article)

DOI: 10.1021/ac100515y

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Polyhedral Oligomeric Silsesquioxane as a Cross-linker for Preparation of Inorganic–Organic Hybrid Monolithic Columns

Minghuo Wu, Ren'an Wu, Ruibing Li, Hongqiang Qin, Jing Dong, Zhenbin Zhang and Hanfa Zou

pp 5447-5454

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Optical Extinction Combined with Phase Measurements for Probing DNA–Small-Molecule Interactions Using an Evanescent Waveguide Biosensor

Juan Wang, Paul D. Coffey, Marcus J. Swann, Fan Yang, Jian R. Lu and Xiurong Yang

pp 5455-5462

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DOI: 10.1021/ac9027164

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Evaluation of Ligand-Selector Interaction from Effective Diffusion Coefficient

Anna Bielejewska, Andrzej Bylina, Kazimiera Duszczyk, Marcin Fiałkowski and Robert Hołyst

pp 5463-5469

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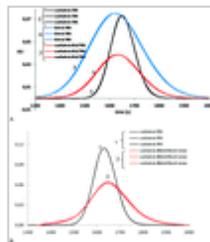


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Fluorescence Lifetime Probe for Solvent Microviscosity Utilizing Anilidonaphthalene Sulfonate

Yuu Someya and Hiroharu Yui

pp 5470-5476

Publication Date (Web): June 4, 2010 (Article)

DOI: 10.1021/ac100116j

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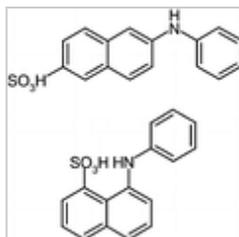


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Ultrasensitive Electrochemical Detection For DNA Arrays Based on Silver Nanoparticle Aggregates

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Hui Li, Ziyin Sun, Wenying Zhong, Nan Hao, Danke Xu and Hong-Yuan Chen

pp 5477-5483

Publication Date (Web): June 15, 2010 (Article)

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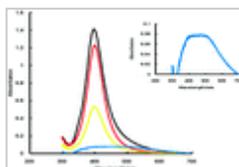


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Role of Five Synthetic Reaction Conditions on the Stable Isotopic Composition of 3,4-Methylenedioxymethamphetamine

Hilary A. S. Buchanan, Niamh Nic Daoid, William J. Kerr, James F. Carter and Jenny C. Hill

pp 5484-5489

Publication Date (Web): June 1, 2010 (Article)

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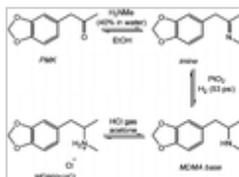


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Evaluation of Accurate Mass and Relative Isotopic Abundance Measurements in the LTQ-Orbitrap Mass Spectrometer for Further Metabolomics Database Building

Ying Xu, Jean-François Heillier, Geoffrey Madalinski, Eric Genin, Eric Ezan, Jean-Claude Tabet and Christophe Junot

pp 5490-5501

Publication Date (Web): June 1, 2010 (Article)

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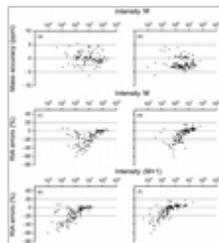


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Analysis of Oxidized Phospholipids by MALDI Mass Spectrometry Using 6-Aza-2-thiothymine Together with Matrix Additives and Disposable Target Surfaces

Gerald Stübiger, Omar Belgacem, Pavel Rehulka, Wolfgang Bicker, Bernd R. Binder and Valery Bochkov

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Fluorescence Resonance Energy Transfer between Quantum Dots and Graphene Oxide for Sensing Biomolecules

Haifeng Dong, Wenchao Gao, Feng Yan, Hanxu Ji and Huangxian Ju

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Diamond, Titanium Dioxide, Titanium Silicon Oxide, and Barium Strontium Titanium Oxide Nanoparticles as Matrixes for Direct Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Analysis of Carbohydrates in Plant Tissues

Yousef Gholipour, Silvana L. Giudicessi, Hiroshi Nonami and Rosa Erra-Balsells

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Simultaneous Extraction and Concentration in Carbon Nanotube Immobilized Hollow Fiber Membranes

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Amperometric Biosensor for Direct Blood Lactate Detection

Marcelo Ricardo Romero, Facundo Ahumada, Fernando Garay and Ana M. Baruzzi

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Mass Spectrometry-Based Thermal Shift Assay for Protein–Ligand Binding Analysis

Graham M. West, J. Will Thompson, Erik J. Soderblom, Laura G. Dubois, Patrick D. DeArmond, M. Arthur Moseley and Michael C. Fitzgerald

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Performance Evaluation of Quantitative Adiabatic ¹³C NMR Pulse Sequences for Site-Specific Isotopic Measurements

Christophe Thibaudeau, Gerald Remaud, Virginie Silvestre and Serge Akoka

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Utilizing Ion-Pairing Hydrophilic Interaction Chromatography Solid Phase Extraction for Efficient Glycopeptide Enrichment in Glycoproteomics

Simon Mysling, Giuseppe Palmisano, Peter Højrup and Morten Thaysen-Andersen

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Dominik Domanski, Leigh C. Murphy and Christoph H. Borchers

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Tara M. Lovestead and Thomas J. Bruno

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Jens Soltwisch and Klaus Dreisewerd

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Automated Online Solid Phase Extraction Ultra High Performance Liquid Chromatography Method Coupled with Tandem Mass Spectrometry for Determination of Forty-Two Therapeutic Drugs and Drugs of Abuse in Human Urine

Ugo Chiuminatto, Fabio Gosetti, Paolo Dossetto, Eleonora Mazzucco, Davide Zampieri, Elisa Robotti, Maria Carla Gennaro and Emilio Marengo

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Stefan Wennmalm and Jerker Widengren

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Approach to Measure Isotopic Ratios in Species Using Multicollector-ICPMS Coupled with Chromatography

Vladimir N. Epov, Sylvain Berail, Maria Jimenez-Moreno, Vincent Perrot, Christophe Pecheyran, David Amouroux and Olivier F. X. Donard

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Preconcentration of Trivalent Lanthanide Elements on a Mercury Film from Aqueous Solution Using Rotating Disk Electrode Voltammetry

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Paul D. Schumacher, Nicholas A. Woods, James O. Schenk and Sue B. Clark

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Dual-Domain Microchip-Based Process for Volume Reduction Solid Phase Extraction of Nucleic Acids from Dilute, Large Volume Biological Samples

Carmen R. Reedy, Kristin A. Hagan, Briony C. Strachan, Joshua J. Higginson, Joan M. Bienvenue, Susan A.

Greenspoon, Jerome P. Ferrance and James P. Landers

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Microfluidic Cell Culture and Metabolism Detection with Electrospray Ionization Quadrupole Time-of-Flight Mass Spectrometer

Dan Gao, Huibin Wei, Guang-Sheng Guo and Jin-Ming Lin

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Collision-Induced Dissociation of the A + 2 Isotope Ion Facilitates Glucosinolates Structure Elucidation by Electrospray Ionization-Tandem Mass Spectrometry with a Linear Quadrupole Ion Trap

Tommaso R. I. Cataldi, Filomena Lelario, Donatella Orlando and Sabino A. Bufo

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Anil K. Kodali, Matthew Schulmerich, Jason Ip, Gary Yen, Brian T. Cunningham and Rohit Bhargava

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Self-Digitization of Sample Volumes

Dawn E. Cohen, Thomas Schneider, Michelle Wang and Daniel T. Chiu

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In Situ Reactivity and TOF-SIMS Analysis of Surfaces Prepared by Soft and Reactive Landing of Mass-Selected Ions

Grant E. Johnson, Michael Lysonski and Julia Laskin

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Development and Validation of a Liquid Chromatography-Mass Spectrometry Assay for the Quantitation of IPTG in *E. Coli* Fed-Batch Cultures

Alfred Fernández, Jordi Ruiz, Gloria Caminal and Josep López-Santín

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Jennifer L. Gasser-Ramirez and Joel M. Harris

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Preferential Cleavage of N-N Hydrazone Bonds for Sequencing Bis-arylhydrazone Conjugated Peptides by Electron Transfer Dissociation

Myles W. Gardner and Jennifer S. Brodbelt

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Optimizing the Conditions of a Multiple Reaction Monitoring Assay for Membrane Proteins: Quantification of Cytochrome P450 11A1 and Adrenodoxin Reductase in Bovine Adrenal Cortex and Retina

Wei-Li Liao, Gun-Young Heo, Nathan G. Dodder, Irina A. Pikuleva and Illarion V. Turko

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Sensitive and Convenient Yeast Reporter Assay for High-Throughput Analysis by Using a Secretory Luciferase from *Cypridina noctiluca*

Yuki Tochigi, Natsuko Sato, Takehiko Sahara, Chun Wu, Shinya Saito, Tsutomu Irie, Wataru Fujibuchi, Takako

Goda, Ryoichi Yamaji, Masahiro Ogawa, Yoshihiro Ohmiya and Satoru Ohgiya

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Gianluca Picariello, Raffaele Romano and Francesco Addeo

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LC-MS/MS Coupled with Stable Isotope Dilution Method for the Quantification of 6-Thioguanine and S⁶-Methylthioguanine in Genomic DNA of Human Cancer Cells Treated with 6-Thioguanine

Hongxia Wang and Yinsheng Wang

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Lin Ding, Ruocan Qian, Yadong Xue, Wei Cheng and Huangxian Ju

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Multiplex Single Nucleotide Polymorphism Genotyping Utilizing Ligase Detection Reaction Coupled Surface Enhanced Raman Spectroscopy

Adam J. Lowe, Yun Suk Huh, Aaron D. Strickland, David Erickson and Carl A. Batt

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Microthermogravimetry of a Single Microcapsule Using Silicon Microresonators

Dongkyu Lee, Yongbeom Park, Soo Hyoun Cho, Myungsun Yoo, Namchul Jung, Minhyuk Yun, Wooree Ko and Sangmin Jeon

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Selected Ion Flow Tube-Mass Spectrometry for Absolute Quantification of Aroma Compounds in the Headspace of Dry Fermented Sausages

Alicia Olivares, Kseniya Dryahina, José Luis Navarro, Mónica Flores, David Smith and Patrik Španěl

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Electrochemical Immunosensors for Antibodies to Peanut Allergen Ara h2 Using Gold Nanoparticle–Peptide Films

Hongyun Liu, Ruchika Malhotra, Mark W. Peczu and James F. Rusling

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Depth Profiling of Nanometer Coatings by Low Temperature Plasma Probe Combined with Inductively Coupled Plasma Mass Spectrometry

Zhi Xing, Juan Wang, Guojun Han, Biekesai like Kuermaiti, Sichun Zhang and Xinrong Zhang

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Optimized Method for Computing $^{18}\text{O}/^{16}\text{O}$ Ratios of Differentially Stable-Isotope Labeled Peptides in the Context of Postdigestion ^{18}O Exchange/Labeling

Xiaoying Ye, Brian T. Luke, Donald J. Johann, Jr., Akira Ono, DaRue A. Prieto, King C. Chan, Haleem J. Issaq,

Timothy D. Veenstra and Josip Blonder

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Daisuke Miura, Yukiko Tsuji, Katsutoshi Takahashi, Hiroyuki Wariishi and Kazunori Saito

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Dan Shan, Bo Qian, Shou-Nian Ding, Wei Zhu, Serge Cosnier and Huai-Guo Xue

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Online MALDI-TOF MS Using an Aerodynamic Lens Assembly as a Direct Deposition Interface

Jinian Shu, Junwang Meng, Xi Shu, Yang Zhang, Shaokai Gao, Bo Yang and Jie Gan

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Ratiometric Surface Enhanced Raman Quantification of Ligand Adsorption onto a Gold Nanoparticle

Dongmao Zhang and Siyam M. Ansar

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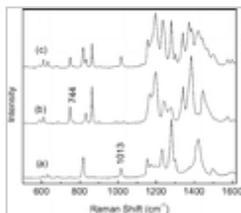
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Additions and Corrections

An RNA Aptamer Based Assay for the Detection and Analysis of Malachite Green and Leucomalachite Green Residues in Fish Tissue

Sara L. Stead, Helen Ashwin, Brian H. Johnston, Anne Dallas, Sergei A. Kazakov, Jonathan Tarbin, Matthew

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Sharman, Jack Kay and Brendan J. Keely

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