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 Volume 82, Issue 15
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EDITORIAL

 13th International Conference on Electroanalysis

Royce Murray

p 6319

Publication Date (Web): July 15, 2010 (Editorial)

DOI: 10.1021/ac101794a

Abstract

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RESEARCH PROFILE

 Raman spectroscopy probe detects bladder cancer in vivo

Nancy D. Lamontagne

p 6320

Publication Date (Web): June 21, 2010 (Research Profile)

DOI: 10.1021/ac101520n

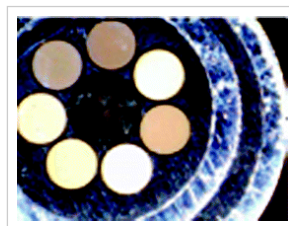
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FEATURES

 Experimental Methods for Quantifying the Activity of Platinum Electrocatalysts for the Oxygen Reduction Reaction

Yannick Garsany, Olga A. Baturina and Karen E. Swider-Lyons, Shyam S. Kocha

pp 6321-6328

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

DOI: 10.1021/ac100306c

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LETTER TO ANALYTICAL CHEMISTRY

Characterization of Murine Brain Membrane Glycoproteins by Detergent Assisted Lectin Affinity Chromatography

Xin Wei, Charles Dulberger and Lingjun Li

pp 6329-6333

Publication Date (Web): July 12, 2010 (Letter)

DOI: 10.1021/ac1004844

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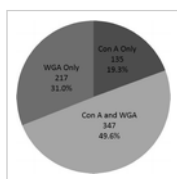


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Intermittent Contact-Scanning Electrochemical Microscopy (IC-SECM): A New Approach for Tip Positioning and Simultaneous Imaging of Interfacial Topography and Activity

Kim McKelvey, Martin A. Edwards and Patrick R. Unwin

pp 6334-6337

Publication Date (Web): June 28, 2010 (Letter)

DOI: 10.1021/ac101099e

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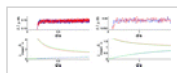


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Integrated Poly(dimethylsiloxane) with an Intrinsic Nonfouling Property Approaching "Absolute" Zero Background in Immunoassays

Hongwei Ma, Yuanzi Wu, Xiaoli Yang, Xing Liu, Jianan He, Long Fu, Jie Wang, Hongke Xu, Yi Shi and Renqian Zhong

pp 6338-6342

Publication Date (Web): July 7, 2010 (Letter)

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Clicking Fluoroionophores onto Mesoporous Silicas: A Universal Strategy toward Efficient Fluorescent Surface Sensors for Metal Ions

Zhen Jin, Xiao-Bing Zhang, De-Xun Xie, Yi-Jun Gong, Jing Zhang, Xin Chen, Guo-Li Shen and Ru-Qin Yu

pp 6343-6346

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

DOI: 10.1021/ac101305e

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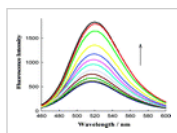


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Accurate Determination of Protein Secondary Structure Content from Raman and Raman Optical Activity Spectra

Myra N. Kinalwa, Ewan W. Blanch and Andrew J. Doig
pp 6347-6349
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DOI: 10.1021/ac101334h

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Silver Nanoparticles on a Plastic Platform for Localized Surface Plasmon Resonance Biosensing

Meikun Fan, Matthew Thompson, Maria Luiza Andrade and Alexandre G. Brolo
pp 6350-6352
Publication Date (Web): July 2, 2010 (Letter)
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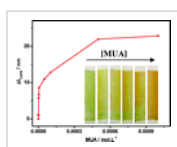


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ACCELERATED ARTICLES

Touching Surface-Attached Molecules with a Microelectrode: Mapping the Distribution of Redox-Labeled Macromolecules by Electrochemical-Atomic Force Microscopy

Agnès Anne, Edmond Cambriil, Arnaud Chovin and Christophe Demaille
pp 6353-6362
Publication Date (Web): July 6, 2010 (Accelerated Article)
DOI: 10.1021/ac1012464

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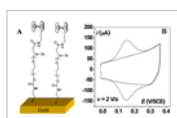


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Identification of Racemization Sites Using Deuterium Labeling and Tandem Mass Spectrometry

Lihua Huang, Xiaojun Lu, P. Clayton Gough and Michael R. De Felippis
pp 6363-6369
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DOI: 10.1021/ac101348w

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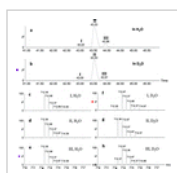


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ARTICLES

Minimizing Tissue Damage in Electroosmotic Sampling

Amy E. Hamsher, Hongjuan Xu, Yifat Guy, Mats Sandberg and Stephen G. Weber

pp 6370-6376

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

DOI: 10.1021/ac101271r

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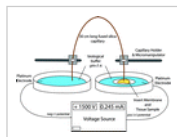


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Electroosmotic Sampling. Application to Determination of Ectopeptidase Activity in Organotypic Hippocampal Slice Cultures

Hongjuan Xu, Yifat Guy, Amy Hamsher, Guoyue Shi, Mats Sandberg and Stephen G. Weber

pp 6377-6383

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

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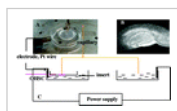


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Differentiation and Semiquantitative Analysis of an Isoaspartic Acid in Human α -Crystallin by Postsource Decay in a Curved Field Reflectron

Yuzo Yamazaki, Norihiko Fujii, Yutaka Sadakane and Noriko Fujii

pp 6384-6394

Publication Date (Web): July 13, 2010 (Article)

DOI: 10.1021/ac100310x

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Wan N. S. Mat Desa, Niamh Nic Daíid, Dzulkiflee Ismail and Kathleen Savage

pp 6395-6400

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DOI: 10.1021/ac100381a

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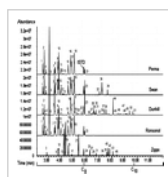


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Comparative Study of Random and Oriented Antibody Immobilization Techniques on the Binding Capacity of Immunosensor

A. Kausaite-Minkstiene, A. Ramanaviciene, J. Kirlyte and A. Ramanavicius

pp 6401-6408

Publication Date (Web): July 13, 2010 (Article)

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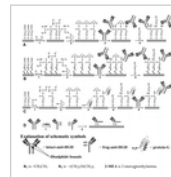


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Separation of Multiphosphorylated Peptide Isomers by Hydrophilic Interaction Chromatography on an Aminopropyl Phase

David Singer, Julia Kuhlmann, Matthias Muschket and Ralf Hoffmann

pp 6409-6414

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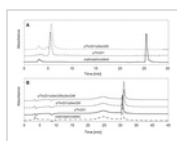


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Fluorescence Lifetime Cross Correlation Spectroscopy Resolves EGFR and Antagonist Interaction in Live Cells

Jiji Chen and Joseph Irudayaraj

pp 6415-6421

Publication Date (Web): June 29, 2010 (Article)

DOI: 10.1021/ac101236t

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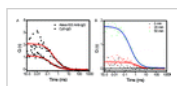


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Versatile Immunosensor Using a Quantum Dot Coated Silica Nanosphere as a Label for Signal Amplification

Jing Qian, Chunyan Zhang, Xiaodong Cao and Songqin Liu

pp 6422-6429

Publication Date (Web): July 2, 2010 (Article)

DOI: 10.1021/ac100558t

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Photocatalyzed Surface Modification of Poly(dimethylsiloxane) with Polysaccharides and Assay of Their Protein Adsorption and Cytocompatibility

Linyan Yang, Li Li, Qin Tu, Li Ren, Yanrong Zhang, Xueqin Wang, Zhiyun Zhang, Wenming Liu, Liangliang Xin and Jinyi Wang

pp 6430-6439

Publication Date (Web): July 8, 2010 (Article)

DOI: 10.1021/ac100544x

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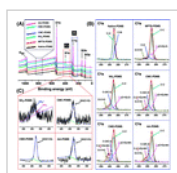


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 Hairpin DNA Switch for Ultrasensitive Spectrophotometric Detection of DNA Hybridization Based on Gold Nanoparticles and Enzyme Signal Amplification

Youyu Zhang, Zhiwen Tang, Jun Wang, Hong Wu, Aihui Maham and Yuehe Lin

pp 6440-6446

Publication Date (Web): July 7, 2010 (Article)

DOI: 10.1021/ac1006238

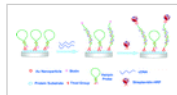
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 Development of a Quantitative Metabolomic Approach to Study Clinical Human Fecal Water Metabolome Based on Trimethylsilylation Derivatization and GC/MS Analysis

Xianfu Gao, Estelle Pujos-Guillot and Jean-Louis Sédano

pp 6447-6456

Publication Date (Web): July 14, 2010 (Article)

DOI: 10.1021/ac1006552

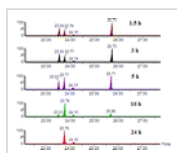
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 Quantification in Gas Chromatography: Prediction of Flame Ionization Detector Response Factors from Combustion Enthalpies and Molecular Structures

Jean-Yves de Saint Laumer, Esmeralda Cicchetti, Philippe Merle, Jonathan Egger and Alain Chaintreau

pp 6457-6462

Publication Date (Web): July 13, 2010 (Article)

DOI: 10.1021/ac1006574

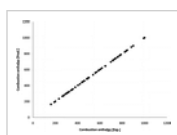
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 Development of a Fluorescence Model for the Binding of Medium- to Long-Chain Perfluoroalkyl Acids to Human Serum Albumin Through a Mechanistic Evaluation of Spectroscopic Evidence

Paul C. Hebert and Laura A. MacManus-Spencer

pp 6463-6471

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

DOI: 10.1021/ac100721e

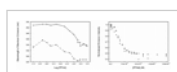
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Localizable and Highly Sensitive Calcium Indicator Based on a BODIPY Fluorophore

Mako Kamiya and Kai Johnsson

pp 6472-6479

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

DOI: 10.1021/ac100741t

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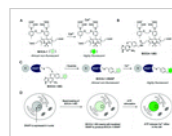


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Characterization and Improvement of Signal Drift Associated with Electron Ionization Quadrupole Mass Spectrometry

Ward D'Autry, Kris Wolfs, Sitaramaraju Yarramraju, Ann Van Schepdael, Jos Hoogmartens and Erwin Adams

pp 6480-6486

Publication Date (Web): July 13, 2010 (Article)

DOI: 10.1021/ac100780s

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Improved Vapor Sensitivity by Rationally Designing Fluorescent Turn-on Sensors

Ariya Akthakul, Natalia Maklakov and Joel White

pp 6487-6494

Publication Date (Web): July 8, 2010 (Article)

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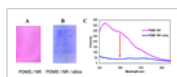


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Screening and Identification of Small Molecule Compounds Perturbing Mitosis Using Time-Dependent Cellular Response Profiles

Ning Ke, Biao Xi, Peifang Ye, Wanhong Xu, Min Zheng, Long Mao, Meng-Jou Wu, Jenny Zhu, Jieying Wu, Wenfu Zhang, Jing Zhang, Jeff Irelan, Xiaobo Wang, Xiao Xu and Yama A. Abassi

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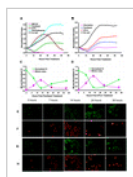


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Microchip Electrophoresis of Oligosaccharides Using Large-Volume Sample Stacking with an Electroosmotic Flow Pump in a Single Channel

Takayuki Kawai, Kenji Sueyoshi, Fumihiko Kitagawa and Koji Otsuka

pp 6504-6511

Publication Date (Web): June 29, 2010 (Article)

DOI: 10.1021/ac1008145

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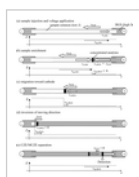


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[Abstract](#)

Real-Time Electrochemical Monitoring of Cellular H₂O₂ Integrated with In Situ Selective Cultivation of Living Cells Based on Dual Functional Protein Microarrays at Au-TiO₂ Surfaces

Xiaoguang Li, Yan Liu, Anwei Zhu, Yongping Luo, Zifeng Deng and Yang Tian
pp 6512-6518
Publication Date (Web): June 28, 2010 (Article)
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Gas Chromatography/Femtosecond Multiphoton Ionization/Time-of-Flight Mass Spectrometry of Dioxins

Yuka Watanabe-Ezoe, Xing Li, Tomoko Imasaka, Tomohiro Uchimura and Totaro Imasaka
pp 6519-6525
Publication Date (Web): July 1, 2010 (Article)
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Novel ELISAs for Screening of the Biogenic Amines GABA, Glycine, β -Phenylethylamine, Agmatine, and Taurine Using One Derivatization Procedure of Whole Urine Samples

Han Huisman, Paul Wynveen, Mikaela Nichkova and Gottfried Kellermann
pp 6526-6533
Publication Date (Web): June 29, 2010 (Article)
DOI: 10.1021/ac100858u

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Peptide Fragmentation during Nanoelectrospray Ionization

He Wang, Zheng Ouyang and Yu Xia
pp 6534-6541
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Liquid Chromatography Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometric Characterization of N-Linked Glycans and Glycopeptides

Xu Wang, Mark R. Emmett and Alan G. Marshall
pp 6542-6548
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DOI: 10.1021/ac1008833

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Peptide Labeling with Isobaric Tags Yields Higher Identification Rates Using iTRAQ 4-Plex Compared to TMT 6-Plex and iTRAQ 8-Plex on LTQ Orbitrap

Peter Pichler, Thomas K^ocher, Johann Holzmann, Michael Mazanek, Thomas Taus, Gustav Ammerer and Karl Mechtler
pp 6549-6558
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Combinatorial Libraries of Synthetic Peptides as a Model for Shotgun Proteomics

Brian C. Bohrer, Yong Fuga Li, James P. Reilly, David E. Clemmer, Richard D. DiMarchi, Predrag Radivojac, Haixu Tang and Randy J. Arnold
pp 6559-6568
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Confocal Laser Scanning Microscopy Method for Quantitative Characterization of Silica Monolith Morphology

Stefan Bruns, Tibor M^ullner, Martin Kollmann, Joachim Schachtner, Alexandra H^oltzel and Ulrich Tallarek
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DOI: 10.1021/ac100909t

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Quantification of Gemcitabine Incorporation into Human DNA by LC/MS/MS as a Surrogate Measure for Target Engagement

Enaksha R. Wickremesinha, Barry S. Lutzke, Barry R. Jones, Gary A. Schultz, Angela B. Freeman, Susan E. Pratt, Angela M. Bones and Bradley L. Ackermann

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DOI: 10.1021/ac100984h

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Study of Discontinuous Atmospheric Pressure Interfaces for Mass Spectrometry Instrumentation Development

Wei Xu, Nicholas Charipar, Matthew A. Kirleis, Yu Xia and Zheng Ouyang

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DOI: 10.1021/ac101002t

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Immunomagnetic Separation and Quantification of Butyrylcholinesterase Nerve Agent Adducts in Human Serum

Jennifer L. S. Sporty, Sharon W. Lemire, Edward M. Jakubowski, Julie A. Renner, Ronald A. Evans, Robert F. Williams, Jurgen G. Schmidt, Marcel J. van der Schans, Daan Noort and Rudolph C. Johnson

pp 6593-6600

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Characterization of Sulfide Compounds in Petroleum: Selective Oxidation Followed by Positive-Ion Electrospray Fourier Transform Ion Cyclotron Resonance Mass Spectrometry

Peng Liu, Chunming Xu, Quan Shi, Na Pan, Yahe Zhang, Suoqi Zhao and Keng H. Chung

pp 6601-6606

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Silver Ions-Mediated Conformational Switch: Facile Design of Structure-Controllable Nucleic Acid Probes

Yongxiang Wang, Jishan Li, Hao Wang, Jianyu Jin, Jinhua Liu, Kemin Wang, Weihong Tan and Ronghua Yang

pp 6607-6612

Publication Date (Web): July 2, 2010 (Article)

DOI: 10.1021/ac101114w

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High Throughput Quantification of N-Glycans Using One-Pot Sialic Acid Modification and Matrix Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry

Geun-Cheol Gil, Bryce Iliff, Ron Cerny, William H. Velander and Kevin E. Van Cott

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Karsten Hiller, Christian M. Metallo, Joanne K Kelleher and Gregory Stephanopoulos

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Masahito Hosokawa, Taishi Hayata, Yorikane Fukuda, Atsushi Arakaki, Tomoko Yoshino, Tsuyoshi Tanaka and Tadashi Matsunaga

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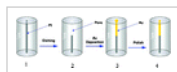


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ADDITIONS AND CORRECTIONS

 Mathematical Approach by a Selectivity Model for Rationalization of pH- and Selector Concentration-Dependent Reversal of the Enantiomer Migration Order in Capillary Electrophoresis

Manuela Hammitzsch-Wiedemann and Gerhard K. E. Scriba

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