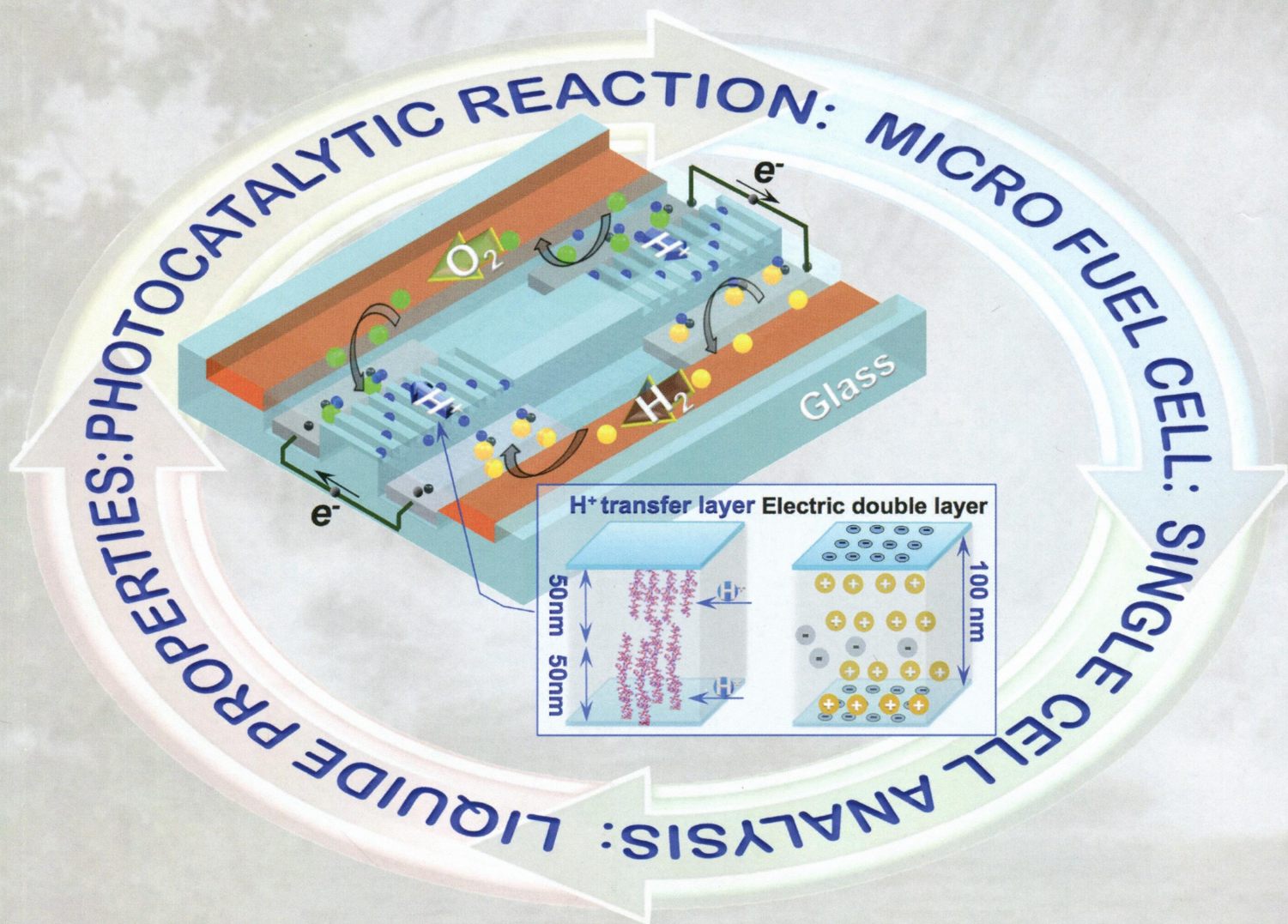


analytical chemistry

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Extended-Nanofluidics:
Fundamental Technologies, Unique Liquid
Properties, and Application in Chemical and Bio
Analysis Methods and Devices



ON THE COVER: Nanofluidics in 10–100 nm in scale is the next target of microfluidic science. Recent progress of fundamental technologies allowed researchers to reveal the unique liquid properties and develop unique chemical devices. Image created by Dr. Pihosh Yuriy.

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- 4302  [dx.doi.org/10.1021/ac404093c](https://doi.org/10.1021/ac404093c)
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- 4333  [dx.doi.org/10.1021/ac500112d](https://doi.org/10.1021/ac500112d)
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- 4362  [dx.doi.org/10.1021/ac500165z](https://doi.org/10.1021/ac500165z)
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- 4371  [dx.doi.org/10.1021/ac500195u](https://doi.org/10.1021/ac500195u)
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- 4379  [dx.doi.org/10.1021/ac500199x](https://doi.org/10.1021/ac500199x)
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- 4395  [dx.doi.org/10.1021/ac500231e](https://doi.org/10.1021/ac500231e)
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- 4416  [dx.doi.org/10.1021/ac500281r](https://doi.org/10.1021/ac500281r)
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Tryptic Digestion Coupled with Ambient Desorption Electrospray Ionization and Liquid Extraction Surface Analysis Mass Spectrometry Enabling Identification of Skeletal Muscle Proteins in Mixtures and Distinguishing between Beef, Pork, Horse, Chicken, and Turkey Meat


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Polydopamine-Functionalization of Graphene Oxide to Enable Dual Signal Amplification for Sensitive Surface Plasmon Resonance Imaging Detection of Biomarker

Weihua Hu,* Guangli He, Huanhuan Zhang, Xiaoshuai Wu, Jialin Li, Zhiliang Zhao, Yan Qiao, Zhisong Lu, Yang Liu, and Chang Ming Li*

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Boolean Logic Tree of Graphene-Based Chemical System for Molecular Computation and Intelligent Molecular Search Query

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Motor-Based Autonomous Microsensor for Motion and Counting Immunoassay of Cancer Biomarker








Xiaoping Yu, Yana Li, Jie Wu,* and Huangxian Ju








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Improved Reagents for Newborn Screening of Mucopolysaccharidosis Types I, II, and VI by Tandem Mass Spectrometry

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- 4515  [dx.doi.org/10.1021/ac500443q](https://doi.org/10.1021/ac500443q)
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- 4521  [dx.doi.org/10.1021/ac500466x](https://doi.org/10.1021/ac500466x)
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- 4528  [dx.doi.org/10.1021/ac5005162](https://doi.org/10.1021/ac5005162)
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- 4536  [dx.doi.org/10.1021/ac500517h](https://doi.org/10.1021/ac500517h)
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- 4544  [dx.doi.org/10.1021/ac500581b](https://doi.org/10.1021/ac500581b)
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- 4559 [dx.doi.org/10.1021/ac500591n](https://doi.org/10.1021/ac500591n)
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- 4566  [dx.doi.org/10.1021/ac500608d](https://doi.org/10.1021/ac500608d)
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- 4573  [dx.doi.org/10.1021/ac500616q](https://doi.org/10.1021/ac500616q)
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- 4589  [dx.doi.org/10.1021/ac5006487](https://doi.org/10.1021/ac5006487)
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- 4596 [dx.doi.org/10.1021/ac5007427](https://doi.org/10.1021/ac5007427)
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- 4605  [dx.doi.org/10.1021/ac500835k](https://doi.org/10.1021/ac500835k)
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- 4611  [dx.doi.org/10.1021/ac5007552](https://doi.org/10.1021/ac5007552)
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- 4618  [dx.doi.org/10.1021/ac500820p](https://doi.org/10.1021/ac500820p)
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- 4627  [dx.doi.org/10.1021/ac500864w](https://doi.org/10.1021/ac500864w)
Fragmentation of Integral Membrane Proteins in the Gas Phase
Owen S. Skinner, Adam D. Catherman, Bryan P. Early, Paul M. Thomas, Philip D. Compton, and Neil L. Kelleher*

Additions and Corrections

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Correction to High Sensitivity Detection and Quantitation of DNA Copy Number and Single Nucleotide Variants with Single Color Droplet Digital PCR

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Correction to Bias Modulated Scanning Ion Conductance Microscopy

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