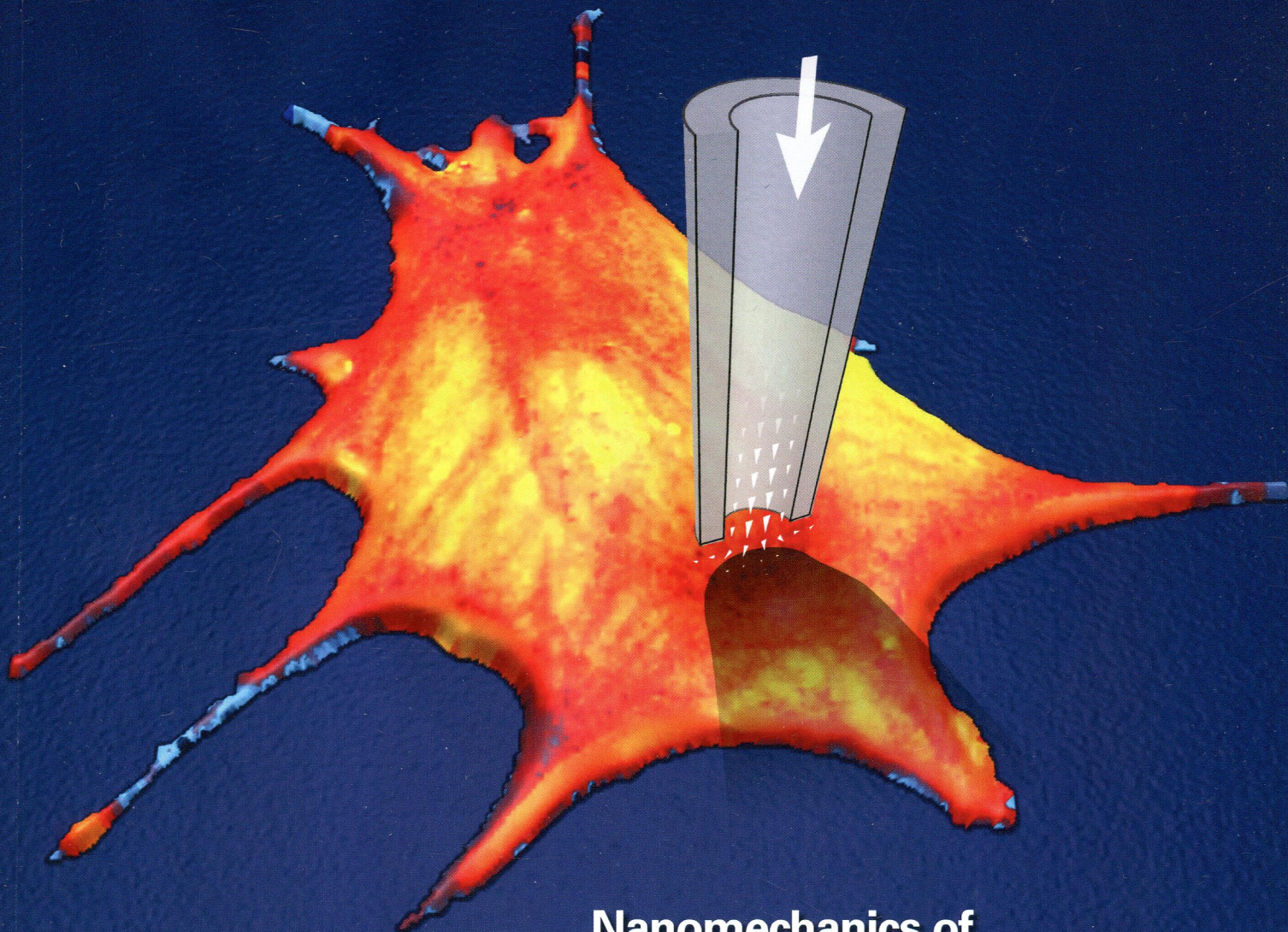


analytical chemistry

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**Nanomechanics of
Molecules and Living Cells with
Scanning Ion Conductance Microscopy**



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ON THE COVER: Stiffness map of a live fibroblast cell recorded with the nanopipette in a scanning ion conductance microscope (SICM), showing topography (relief) and mechanical stiffness (color). Image created by Johannes Rheinlaender.

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Reversible Near-Infrared pH Probes Based on Benzo[*a*]phenoxazine

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Application of Dissolvable Layered Double Hydroxides As Sorbent in Dispersive Solid-Phase Extraction and Extraction by Co-Precipitation for the Determination of Aromatic Acid Anions

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Fluorescent Metal–Organic Framework MIL-53(Al) for Highly Selective and Sensitive Detection of Fe³⁺ in Aqueous Solution

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Carbon Nanotube Fiber Microelectrodes Show a Higher Resistance to Dopamine Fouling









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Piezomicrogravimetric and Impedimetric Oligonucleotide Biosensors Using Conducting Polymers of Biotinylated Bis(2,2'-bithien-5-yl)methane as Recognition Units

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- 7550  [dx.doi.org/10.1021/ac401576u](https://doi.org/10.1021/ac401576u)
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- 7558  [dx.doi.org/10.1021/ac401606p](https://doi.org/10.1021/ac401606p)
Microfluidic Droplet-Based Liquid–Liquid Extraction and On-Chip IR Spectroscopy Detection of Cocaine in Human Saliva
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- 7566  [dx.doi.org/10.1021/ac401595a](https://doi.org/10.1021/ac401595a)
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- 7574  [dx.doi.org/10.1021/ac401680c](https://doi.org/10.1021/ac401680c)
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Magnetophoretic Chromatography for the Detection of Pathogenic Bacteria with the Naked Eye

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Microfluidic Chip-Based Online Electrochemical Detecting System for Continuous and Simultaneous Monitoring of Ascorbate and Mg^{2+} in Rat Brain

Xia Gao, Ping Yu, Yuexiang Wang, Takeo Ohsaka, Jianshan Ye,* and Lanqun Mao*

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Ultraperformance Liquid Chromatography–Mass Spectrometry Based Comprehensive Metabolomics Combined with Pattern Recognition and Network Analysis Methods for Characterization of Metabolites and Metabolic Pathways from Biological Data Sets

Ai-hua Zhang, Hui Sun, Ying Han,* Guang-li Yan, Ye Yuan, Gao-chen Song, Xiao-xia Yuan, Ning Xie, and Xi-jun Wang*

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Combined Stokes Vector and Mueller Matrix Polarimetry for Materials Characterization

Shaun A. Hall, Marc-André Hoyle, Joshua S. Post, and Dennis K. Hore*