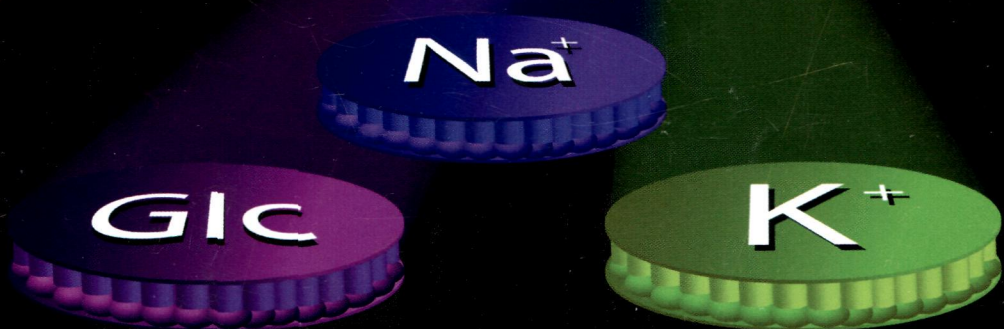
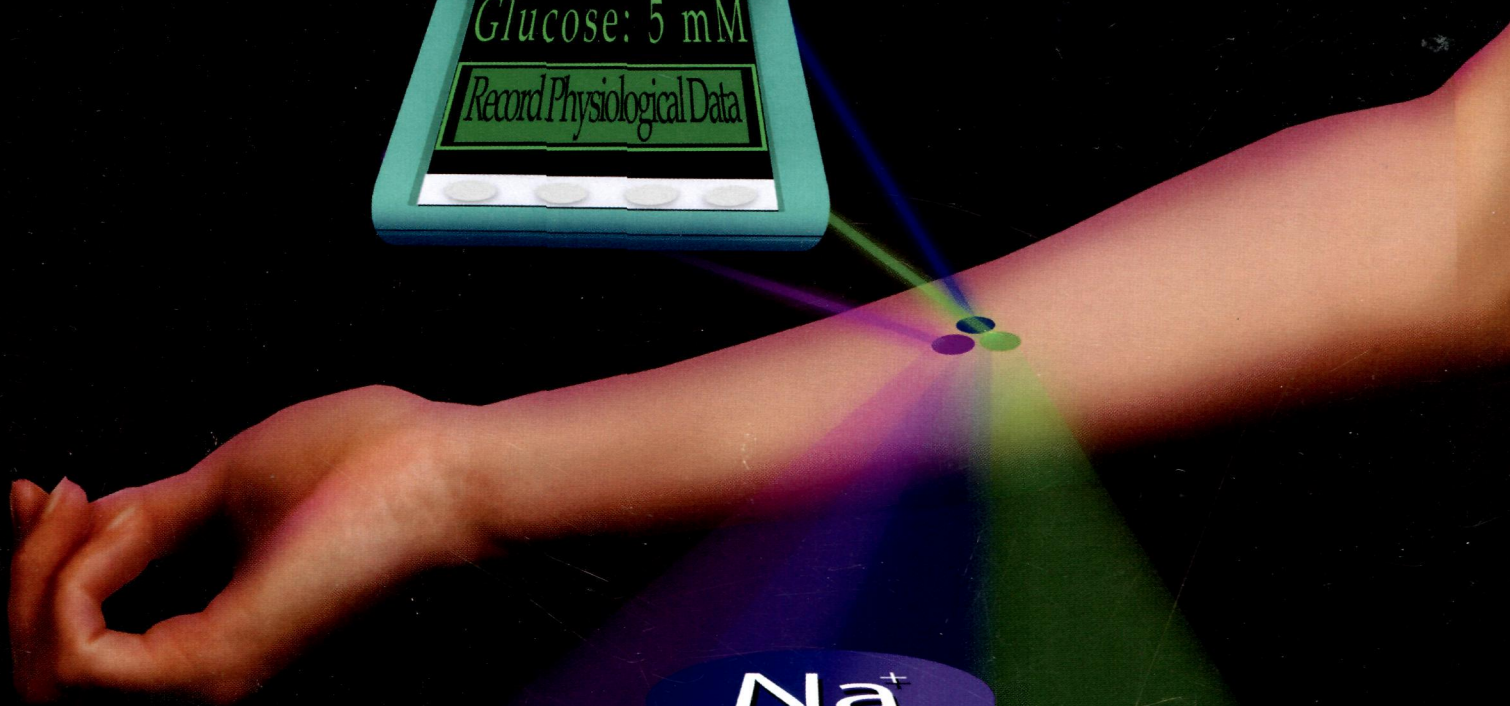
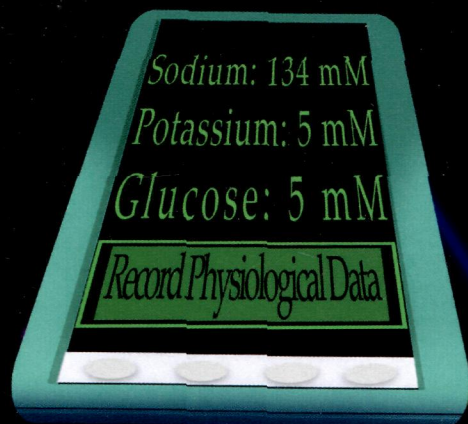


# analytical chemistry

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## Implantable Nanosensors: Toward Continuous Physiologic Monitoring



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**ON THE COVER:** Implantable nanosensors that continuously monitor bio-analytes may help realize personalized medicine. The graphic depicts an array of implanted nanosensors that provide a quantitative readout for glucose, sodium, and potassium. Graphic created by Robert Gates.

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- 1608  dx.doi.org/10.1021/ac403281g  
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- 1614  dx.doi.org/10.1021/ac4033033  
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- 1671 dx.doi.org/10.1021/ac403437x  
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- 1693  dx.doi.org/10.1021/ac4034938  
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Walid M. I. Hassan and Ahmed S. Abo Dena\*

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[dx.doi.org/10.1021/ac403982m](https://doi.org/10.1021/ac403982m)**Preparation and Validation of Fully Synthetic Standard Gas Mixtures with Atmospheric Isotopic Composition for Global CO<sub>2</sub> and CH<sub>4</sub> Monitoring**

Paul J. Brewer,\* Richard J. C. Brown, Michael N. Miller, Marta Doval Miñarro, Arul Murugan, Martin J. T. Milton, and George C. Rhoderick

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[dx.doi.org/10.1021/ac403985w](https://doi.org/10.1021/ac403985w)**Quantification of Peptide *m/z* Distributions from <sup>13</sup>C-Labeled Cultures with High-Resolution Mass Spectrometry**

Doug K. Allen,\* Joshua Goldford, James K. Gierse, Dominic Mandy, Christine Diepenbrock, and Igor G. L. Libourel\*

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[dx.doi.org/10.1021/ac4040168](https://doi.org/10.1021/ac4040168)**Evaluation of Commercial Glucometer Test Strips for Potential Measurement of Glucose in Tears**

Kyoung Ha Cha, Gary C. Jensen, Anant S. Balijepalli, Bruce E. Cohan, and Mark E. Meyerhoff\*

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[dx.doi.org/10.1021/ac404132g](https://doi.org/10.1021/ac404132g)**Probing Conformational Change of Intrinsically Disordered  $\alpha$ -Synuclein to Helical Structures by Distinctive Regional Interactions with Lipid Membranes**

Shin Jung C. Lee, Jong Wha Lee, Tae Su Choi, Kyeong Sik Jin, Seonghwan Lee, Changill Ban, and Hugh I. Kim\*

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[dx.doi.org/10.1021/ac404072z](https://doi.org/10.1021/ac404072z)**Oxygen-Sensitive Phosphorescent Nanomaterials Produced from High-Density Polyethylene Films by Local Solvent-Crazing**

Claudio Toncelli, Olga V. Arzhakova, Alla Dolgova, Aleksandr L. Volynskii, Nikolai F. Bakeev, Joe P. Kerry, and Dmitri B. Papkovsky\*

## Additions and Corrections

1924

[dx.doi.org/10.1021/ac404081j](https://doi.org/10.1021/ac404081j)**Correction to Microfluidic Droplet-Based Liquid–Liquid Extraction and On-Chip IR-Spectroscopy Detection of Cocaine in Human Saliva**

Philip Wägli,\* Yu-Chi Chang, Kerstin Hans, Alexandra Homsy, Lubos Hvozdzara, Hans Peter Herzig, Markus Sigrist, and Nico F. de Rooij

1925

[dx.doi.org/10.1021/ac404138h](https://doi.org/10.1021/ac404138h)**Correction to Structure and Electrochemical Performance of Nitrogen-Doped Carbon Film Formed by Electron Cyclotron Resonance Sputtering**

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