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- 2. Inkjet Printing Methodologies for Drug Screening**
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- 3. Efficient Fluorescence Resonance Energy Transfer-Based Ratiometric Fluorescent Cellular Imaging Probe for Zn²⁺ Using a Rhodamine Spirolactam as a Trigger**
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- 10. Diffusive Flux and Magnetic Manipulation of Nanoparticles through Porous Membranes**
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- 11. Microcup Arrays for the Efficient Isolation and Cloning of Cells**
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- 13. Elemental Bio-imaging of Thorium, Uranium, and Plutonium in Tissues from Occupationally Exposed Former Nuclear Workers**
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- 14. High-Performance Single Cell Genetic Analysis Using Microfluidic Emulsion Generator Arrays**
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- 15. Impedance Based Detection of Chemical Warfare Agent Mimics Using Ferrocene-Lysine Modified Carbon Nanotubes**
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- 16. Kinetics of Chemical Degradation in Monoclonal Antibodies: Relationship between Rates at the Molecular and Peptide Levels**
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- 17. Strategy to Fabricate an Electrochemical Aptasensor: Application to the Assay of Adenosine Deaminase Activity**
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- 18. Metabolomic Analysis via Reversed-Phase Ion-Pairing Liquid Chromatography Coupled to a Stand Alone Orbitrap Mass Spectrometer**
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- 19. Analysis of Identity, Charge Variants, and Disulfide Isomers of Monoclonal Antibodies with Capillary Zone Electrophoresis in an Uncoated Capillary Column**
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- 20. Analysis of Pharmaceutical Compounds from Glass, Fabric, Steel, and Wood Surfaces at Atmospheric Pressure Using Spatially Resolved, Nonresonant Femtosecond Laser Vaporization Electrospray Mass Spectrometry**
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- 21. Strategies to Optimize Biosensors Based on Impedance Spectroscopy to Detect Phytic Acid Using Layer-by-Layer Films**
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- 22. Dual Source Ion Mobility-Mass Spectrometer for Direct Comparison of Electrospray Ionization and MALDI Collision Cross Section Measurements**
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- 23. High-Spatial and High-Mass Resolution Imaging of Surface Metabolites of Arabidopsis thaliana by Laser Desorption-Ionization Mass Spectrometry Using Colloidal Silver**
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- 24. Demixing of Severely Overlapping NMR Spectra through Multiple-Quantum NMR**
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- 25. End-to-End Differential Contactless Conductivity Sensor for Microchip Capillary Electrophoresis**
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- 26. SlipChip for Immunoassays in Nanoliter Volumes**
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- 27. Top-Down de Novo Protein Sequencing of a 13.6 kDa Camelid Single Heavy Chain Antibody by Matrix-Assisted Laser Desorption Ionization-Time-of-Flight/Time-of-Flight Mass Spectrometry**
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- 28. Advantages of Isotopic Depletion of Proteins for Hydrogen/Deuterium Exchange Experiments Monitored by Mass Spectrometry**
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- 29. Patterned Electrode-Based Amperometric Gas Sensor for Direct Nitric Oxide Detection within Microfluidic Devices**
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- 30. Spectroscopic Analysis of Metal Ion Binding in Spiropyran Containing Copolymer Thin Films**
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- 31. Application of a Solid Electrolyte CO₂ Sensor for the Analysis of Standard Volatile Organic Compound Gases**
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- 32. Novel Approach for the Separation of Shape-Constrained Isomers with Alternating Copolymer-Grafted Silica in Reversed-Phase Liquid Chromatography**
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- 33. Multicomponent ($n \geq 3$) Sorption Isotherms in Reversed-Phase Liquid Chromatography: The Effect of Immobilized Eluent on the Retention of Analytes**
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34. Cascade Signal Amplification Strategy for Subattomolar Protein Detection by Rolling Circle Amplification and Quantum Dots Tagging

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35. Ultrashort Separation Length Homogeneous Electrophoretic Immunoassays Using On-Chip Discontinuous Polyacrylamide Gels

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36. Porous Polymer Monolithic Column with Surface-Bound Gold Nanoparticles for the Capture and Separation of Cysteine-Containing Peptides

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40. Squeeze-Film Hydrogel Deposition and Dry Micropatterning

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41. Increasing the Sensitivity of Enzyme-Linked Immunosorbent Assay Using Multiplexed Electrokinetic Concentrator

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42. Tunable Generation and Adsorption of Energetic Compounds in the Vapor Phase at Trace Levels: A Tool for Testing and Developing Sensitive and Selective Substrates for Explosive Detection

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43. Hand-held Photometer Based on Liquid-Core Waveguide Absorption Detection for Nanoliter-scale Samples

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