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In this interview, Sudharshan Rangarajan discusses how laboratories can overcome some of the hurdles of incorporating automation into their workflow and highlights some of the solutions that Thermo ...

The Rise of Automation in Analytical Science

As analytical instrumentation (gas- and liquid-chromatographs coupled with mass spectrometers) increase in sensitivity and speed, forensic scientists may find themselves still hindered by the process ...

Sample preparation in forensic toxicological analysis may have huge impacts

The analysis shows potential attack paths and the most effective techniques for each tactic documented in CISA's Risk and Vulnerability Assessments.

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CISA Analysis Reveals Successful Attack Techniques of FY 2020

A new method can help track movements of criminals using chemical and biological analysis of soil and dust found on equipment, clothing and cars.

New Method To Identify Dirt Helps Track Criminals

Scientists have taken the first steps in developing a new method of identifying the movements of criminals using chemical analysis of soil and dust found on equipment, clothing and cars. The locating ...

Identifying sources of dirt for criminal investigations

Researchers have provided an overview of sample preparation techniques and information on routine sample types that may be encountered in forensic toxicology cases.

Huge Impact on Forensic Toxicology Analysis of Sample Prep Choices

“Some instrumentation is more prone to matrix effects than ... one that will be applicable for future development requirements. “Without solid analytical methods, it is impossible to make ...

Outlining the Key Steps to Method Development

A new research report titled, ‘Global Instrumentation Ball Valves Market Size, Share, Status and Forecast 2021-2027’ have been added by Market Strides to its huge collection of a research report with ...

Instrumentation Ball Valves Market Research Report by Manufacturers, Region, Type and Application, Forecast to 2027

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The Light Vehicle Instrumentation and Cockpits Market report forecasts promising growth and development for the period 2021-2028. The Light Vehicle Instrumentation and Cockpits market research report ...

Light Vehicle Instrumentation and Cockpits Market Size, Share, Growth, Trend, Drivers and Restraint 2021-2028

IAEA experts have contributed to important ecological research — understanding the relationship between living organisms and their physical environment — by using isotopes to study butterfly and bird ...

IAEA and Austrian Research Centre Team-Up to Advance Ecological Research

Software Automates and Standardizes Materials Science Laboratory Workflows to Help Drive Thermal Analysis Testing Efficiency, Ensure Product Quality and Reduce Risk. NEWS SUMMARY: ...

TA Instruments Helps Laboratories Automate Thermal Analysis Workflows with New TRIOS AutoPilot Software

ReportLinker is an award-winning market research solution. Reportlinker finds and organizes the latest industry data so you get all the market research you need - instantly, in one place.

Global qPCR and dPCR Instrumentation Market to Reach \$9.2 Billion by 2026

After a thorough analysis of the business ... and amplification techniques will additionally encourage adoption of qPCR and dPCR instrumentation in research and diagnosis, particularly in ...

Global qPCR and dPCR Instrumentation Market

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2021-2027 - Progress in Molecular Diagnostics Spur Demand for the Gene Amplification Technologies

In this special guest feature, Edwin Elmendorp, Information Architect, Kinsmen Group, points out that many opportunities exist for using BIG data technologies in manufacturing, while some are still in ...

Incident prevention with Big Data in Manufacturing

The up-to-date coverage of the latest report Separation Systems for Commercial Biotechnology Market provides a ...

Growth of Separation Systems for Commercial Biotechnology in Global Industry: Overview, Size and Share 2021-2026

Jun 24, 2021 (Heraldkeepers) -- The report scope includes market analysis on ... and medical instrumentation. Technological advancement in air compression techniques features a profound influence ...

Industrial Air Compressor Market Share Growth, Size Value, Trends, Rigonal outlook by 2028

After a thorough analysis of the business implications ... and amplification techniques will additionally encourage adoption of qPCR and dPCR instrumentation in research and diagnosis, particularly in ...

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the state of the art of the automation of laboratory processes in analytical chemistry. The topics have been chosen according to such criteria as the degree of consolidation, scope of application and most promising trends. The first part of the book begins with the basic principles behind the automation of laboratory processes, then describes automatic systems for sampling and sample treatment. In the second part the principal types of analysers are discussed: continuous, batch and robotic. The third part is devoted to the automation of analytical instrumentation: spectroscopic, electroanalytical and chromatographic techniques and titrators. The last part presents some examples of the application of automation to clinical chemistry, environmental pollution monitoring and industrial process control. The text is supplemented by 290 figures and 800 literature references. It is written primarily for scientists directly involved in laboratory work and those responsible for industrial planning and control, research centres, etc. It will also be of interest to analytical chemists wishing to update their knowledge in this area, and will be of especial interest to scientists directly related to environmental sciences or clinical chemistry.

490 references and abstracts from Selected water resources abstracts through Feb. 15, 1973 (v. 6, no. 4). Each entry consists of title, author, source, descriptors, identifiers, abstract, and accession number. Keyword index.

Analytical Methods for Pesticides and Plant Growth Regulators, Volume XVII: Advanced Analytical Techniques covers analytical techniques of great importance to the pesticide analyst. The book discusses sampling techniques, universal extraction, cleanup methods, and cleanup by sweep

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co-distillation. The text also describes determinations by GC/FT-IR and GC/MS, computer evaluation of GC data, and immunoassay techniques for pesticide analysis. Toxicologists and people involved in pesticide analysis will find the book invaluable.

Chemical analysis requires solvents, reagents and energy and generates waste. The main goal of green analytical chemistry is to avoid or reduce the undesirable environmental side effects of chemical analysis, while preserving the classic analytical parameters of accuracy, sensitivity, selectivity and precision. This book portrays the current and changing situation concerning adoption of the principles of green chemistry as applied to analysis. It begins by looking at the advantages of and problems associated with on-site analysis and how analytical techniques can lead to increased productivity, efficiency and accuracy, and thereby reduce the consumption of materials. It then focuses on sample preparation techniques minimising solvent consumption or using alternative solvents, concepts and methods of improving the 'greenness' of instrumental analysis where miniaturization is an important part, separation methods from the perspective of green analytical chemistry and chemometrics approaches, which can reduce or can even remove the need for conventional steps in chemical analysis. Aimed at graduates and novices just entering the field, managers of analytical research laboratories, teachers of analytical chemistry and green public policy makers, this title will be a useful addition to any analytical scientist's library.

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