

1. Record Nr.	UNINA9910462814803321
Titolo	Liquid chromatography [[electronic resource]] Applications // [edited by] Salvatore Fanali, Paul R. Haddad, David Lloyd, Colin F. Poole, Peter Schoenmakers
Pubbl/distr/stampa	Amsterdam, : Elsevier, [2013]
ISBN	1-283-94827-3 0-12-415866-8
Descrizione fisica	1 online resource (683 p.)
Altri autori (Persone)	FanaliSalvatore
Disciplina	543/.84
Soggetti	Liquid chromatography Proteins - Chemistry Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Liquid Chromatography: Applications; Copyright; Contents; Contributors; Chapter 1 - Affinity Chromatography; 1.1. INTRODUCTION; 1.2.BASIC COMPONENTS OF AFFINITY CHROMATOGRAPHY; 1.3.BIOAFFINITY CHROMATOGRAPHY; 1.4. IMMUNOAFFINITY CHROMATOGRAPHY; 1.5.DYE-LIGAND AND BIOMIMETIC AFFINITY CHROMATOGRAPHY; 1.6.IMMOBILIZED METAL-ION AFFINITY CHROMATOGRAPHY; 1.7.ANALYTICAL AFFINITY CHROMATOGRAPHY; 1.8.MISCELLANEOUS METHODS AND NEWER DEVELOPMENTS; Acknowledgment; References; Chapter 2 - Derivatization in Liquid Chromatography; 2.1.INTRODUCTION; 2.2. REAGENT SELECTION 2.3.POSTCOLUMN REACTION DETECTORS2.4.CONCLUSIONS; References; Chapter 3 - Validation of Liquid Chromatographic Methods; 3.1.TRADITIONAL METHOD VALIDATION; 3.2.QUALITY BY DESIGN AND ANALYTICAL METHODS; 3.3.CONCLUSION; References; Chapter 4 - Liquid Chromatographic Separation of Enantiomers; 4.1. INTRODUCTION; 4.2.A SHORT HISTORY OF CHIRAL SEPARATIONS BY LIQUID CHROMATOGRAPHY; 4.3.MATERIALS FOR THE LIQUID CHROMATOGRAPHIC SEPARATION OF ENANTIOMERS; 4.4.MODES OF LIQUID CHROMATOGRAPHIC SEPARATION OF ENANTIOMERS; 4.5.

SEPARATION OF ENANTIOMERS BY SUPERCRITICAL FLUID CHROMATOGRAPHY

4.6.SUMMARY AND FUTURE TRENDSReferences; Chapter 5 - Liquid Interaction Chromatography of Polymers; 5.1.INTRODUCTION; 5.2. THEORETICAL ASPECTS OF ISOCRATIC LIQUID CHROMATOGRAPHY OF POLYMERS; 5.3.APPLICATIONS OF LIQUID CHROMATOGRAPHY OF POLYMERS; 5.4.HYPHENATED TECHNIQUES; 5.5.SUMMARY; References; Chapter 6 - Amino Acid and Bioamine Separations; 6.1.INTRODUCTION; 6.2.DIRECT SEPARATION OF AMINO ACIDS AND AMINES; 6.3.INDIRECT SEPARATION OF AMINO ACIDS AND AMINES; 6.4.ENANTIOSELECTIVE LIQUID CHROMATOGRAPHIC ANALYSIS OF AMINO ACIDS; 6.5. CONCLUSIONS; References
Chapter 7 - Protein and Peptide Separations7.1.INTRODUCTION; 7.2. METHODS OF PROTEIN LIQUID CHROMATOGRAPHY; 7.3.CONCLUSIONS; Acknowledgments; References; Chapter 8 - Glycans and Monosaccharides; 8.1.INTRODUCTION; 8.2.TYPES OF GLYCANS; 8.3. ANALYSIS AND CHARACTERIZATION OF GLYCANS; 8.4. MONOSACCHARIDE COMPOSITION ANALYSIS; 8.5.CONCLUSIONS; References; Chapter 9 - Separation of Lipids; 9.1.INTRODUCTION AND CONTENTS; 9.2.DEFINITIONS AND CLASSIFICATION; 9.3.STRUCTURES AND OCCURRENCE; 9.4.SAMPLE EXTRACTION AND HANDLING; 9.5.LIPID ANALYSIS BY LIQUID CHROMATOGRAPHY
9.6.CONCLUSIONS AND FUTURE PERSPECTIVESReferences; Chapter 10 - Forensic Toxicology; 10.1.GENERAL DRUG SCREENING; 10.2.LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY IN FORENSIC TOXICOLOGY; 10.3.TESTING FOR DRIVING UNDER THE INFLUENCE OF DRUGS USING ORAL FLUID; 10.4.TOXICOLOGICAL ANALYSIS OF HAIR IN THE INVESTIGATION OF DRUG FACILITATED CRIMES; 10.5.TARGETED POISONS; 10.6.CONCLUSIONS; References; Chapter 11 - Compositional Analysis of Foods; 11.1.INTRODUCTION; 11.2.CARBOHYDRATES; 11.3. VITAMINS; 11.4.AMINO ACIDS, PEPTIDES, AND PROTEINS; 11.5. LIPIDS; 11.6.MINOR COMPONENTS OF FOOD; 11.7.FOOD ADDITIVES
11.8.CONCLUSIONS AND FUTURE TRENDS

Sommario/riassunto

A single source of authoritative information on all aspects of the practice of modern liquid chromatography suitable for advanced students and professionals working in a laboratory or managerial capacity Chapters written by authoritative and visionary experts in the field provide an overview and focused treatment of a single topicEach chapter emphasizes the integration of chromatographic methods and sample preparation, automation, and explains how liquid chromatography is used in different industrial sectorsFocuses on expanding and illustrating the main