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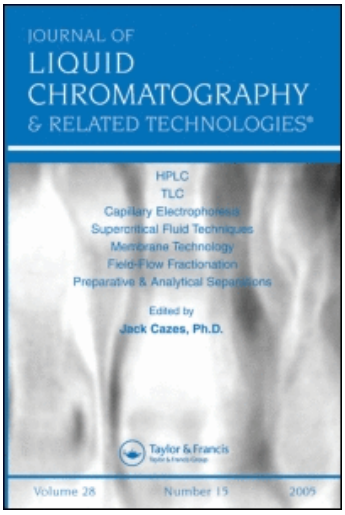

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Chiral Separations by Capillary Electrophoresis, Ann Van Eeckhaut and Yvette Michotte, Eds., CRC Press, 2009. Volume 100 of the Chromatographic Science Series, Dr. Jack Cazes, Ed.

Chiral separations are an important aspect of pharmaceutical research as well as organic synthesis. It was in 1848 that Louis Pasteur discovered molecular chirality and was the first to observe enantioselectivity in a biological process. He discovered the enantioselective fermentation of tartaric acid by microorganisms.

Studies at the end of the nineteenth and the beginning of the twentieth century confirmed the pharmaceutical differences between enantiomers. Since then, it has been a challenge to separate the two enantiomers. Advances in chiral separations by chromatography and electrophoresis did not become a reality and an effective tool till 1980s, when chiral selectors were developed. The chiral selectors were either derivatized to the column material or added to the mobile phase. Today, chiral separations are carried out routinely by capillary electrophoresis.

"Chiral Separations by Capillary Electrophoresis" provides a general overview of the principles of chiral separations by CE, and of the different chiral selectors available to the analyst. The book also discusses pharmaceutical and biochemical applications, CE/MS and microchip technology. The editors also devoted two chapters to capillary electrochromatography.

The book, which comprises 16 chapters totaling 525 pages, is a good reference to the novice as well as the established scientist. The book presents a bouquet of interesting and useful topics

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Ion-Pair Chromatography and Related Techniques Teresa Cecchi, CRC Press 2009. Analytical Chemistry Series, Prof. Charles H. Lochmuller, Ed.

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Ion-Pair Chromatography and Related Techniques is an interesting book that deals in its 17 chapters (201 pages) with an intriguing mode of liquid chromatographic separations. Ion-pairing allows the separation of difficult analyses of various compounds, organic and inorganic ions, ionogenic, neutrals, and zwitterionic compounds.

Ion-Pair Chromatography and Related Techniques, deals with the basics of this technique and its rapid evolution due to the introduction of novel and challenging ion-pair reagents and strategies. The book provides tips and advice to the novice and the experienced scientist. According to the author, the book is aimed at presenting a broad outline of the recent scope of the application of separation strategy. In addition, many recent reports are included in this volume to prove the substantial and practical potential of IPC. The discussion encompasses a wide range of topics: life sciences, medicine, pharmacology, forensic, food, and environmental sectors as well as to provide an up-to-date overview of IPC.

The current volume is well written and presented. The references at the end of each chapter are up-to-date, the illustrations are clear and the book is free of errors.

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