Coupling of Capillary Electrophoresis with Nuclear Magnetic Resonance Spectroscopy for the Analysis of Pharmaceutical and Environmental Relevant Compounds



Filesize: 2.74 MB

Reviews

It in a single of my personal favorite publication. It usually fails to charge an excessive amount of. Once you begin to read the book, it is extremely difficult to leave it before concluding.

(Mr. David Friesen IV)

COUPLING OF CAPILLARY ELECTROPHORESIS WITH NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY FOR THE ANALYSIS OF PHARMACEUTICAL AND ENVIRONMENTAL RELEVANT COMPOUNDS



GRIN Verlag Apr 2011, 2011. Taschenbuch. Book Condition: Neu. 210x148x7 mm. This item is printed on demand - Print on Demand Neuware -Master's Thesis from the year 2009 in the subject Chemistry - Analytical Chemistry, grade: 1,0, University of Hannover (Anorganische Chemie), language: English, comment: This Master Thesis was awarded with the 'E.ON Future Award 2010' and it was carried out at the Leibniz University Hannover, Faculty of Natural Sciences, Institute for Inorganic Chemistry, Department of Analytical Chemistry, in cooperation with the Lawrence Livermore National Laboratory, Physical and Life Sciences Directorate, Livermore, CA, USA., abstract: Separation and identification of masslimited chemical samples is the key to understand the complex nature of pharmaceutical and environmental systems. High efficiency separation techniques, such as capillary electrophoresis (CE), coupled to a non-destructive, information-rich detection, such as nuclear magnetic resonance (NMR) spectroscopy, have revolutionized the ability to separate and identify components in small sample volumes. Using this hyphenated system, structure elucidation of analytes separated during an electrophoretic process can be performed using NMR as an online detector. Although sensitivity remains an issue for on-line NMR detection, capillary NMR spectroscopy using microcoils has emerged as a major breakthrough for increasing the mass-sensitivity of NMR spectroscopy, because the limit of detection is proportional to the coil diameter. A further development is the miniaturization of the magnet enabling the possibility of a truly portable NMR system. This portable, low-cost NMR sensor, coupled to the rapid CE separation system could enable high-throughput and on-site identification of nanoliter amounts of solution. Furthermore, CE can provide on-line pre-concentration via electrokinetic injection or other stacking techniques to increase the sample concentration. In this research, coupling CE to a laboratory-scale NMR and to a portable NMR system are investigated, with the emphasis on the development of the miniaturized system. For the...

- Read Coupling of Capillary Electrophoresis with Nuclear Magnetic Resonance Spectroscopy for the Analysis of Pharmaceutical and Environmental Relevant Compounds Online
- Download PDF Coupling of Capillary Electrophoresis with Nuclear Magnetic Resonance Spectroscopy for the Analysis of Pharmaceutical and Environmental Relevant Compounds

Relevant PDFs



THE Key to My Children Series: Evan s Eyebrows Say Yes

AUTHORHOUSE, United States, 2006. Paperback. Book Condition: New. 274 x 216 mm. Language: English. Brand New Book
***** Print on Demand *****. THE KEYTO MY CHILDREN SERIES: EVAN S EYEBROWS SAYYES is about...

Read ePub »



Joey Green's Rainy Day Magic: 1258 Fun, Simple Projects to Do with Kids Using Brand-name Products

Fair Winds Press, 2006. Paperback. Book Condition: New. Brand new books and maps available immediately from a reputable and well rated UK bookseller - not sent from the USA; despatched promptly and reliably worldwide by...

Read ePub »



Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English. Brand New Book
***** Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can usually...

Read ePub »



Dont Line Their Pockets With Gold Line Your Own A Small How To Book on Living Large

Madelyn D R Books. Paperback. Book Condition: New. Paperback. 106 pages. Dimensions: 9.0in. x 6.0in. x 0.3in. This book is about my cousin, Billy a guy who taught me a lot over the years and who...

Read ePub »



Twitter Marketing Workbook: How to Market Your Business on Twitter

Createspace Independent Publishing Platform, United States, 2016. Paperback. Book Condition: New. Workbook. 279 x 216 mm. Language: English . Brand New Book ****** Print on Demand ******. Twitter Marketing Workbook 2016 Learn how to market your...