

学术报告会

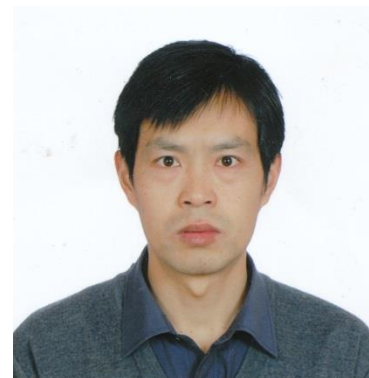
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Miniature analytical instruments and development of the critical components

Dr. Bingcheng Yang

East China University of Science and Technology, China



Abstract:

All chemicals and solvents were of analytical grade. Analytical chromatography is used to determine the existence and possibly also the concentration of analyte(s) in a sample. Chromatogram is a physical method of separation that distributes components to separate between two phases, one stationary (stationary phase), the other (the mobile phase) moving in a definite direction. Based on several miniature analytical instruments developed in the laboratory, this report will discuss some novel technologies of key components of chromatographic systems. These proposed methods have been proved to be effective and demonstrated good accuracy, good precision and so on. Its research methods could also provide many unexpected inspiration for the researchers in the other scientific research fields.

Biography:

Bingcheng Yang received his PhD degree in Department of Analytical Chemistry and Micro-Instrumentation, Dalian Institute of Chemical Physics, Chinese Academy of Sciences in 2003. He was postdoc researcher in University of Texas, America, from 2006 to 2008. Early in 2009 he joined in school of Pharmacy, East China University of Science and Technology in Shanghai. Now he is vice chairman of China professional committee of Ion Chromatography and chairman of analytical instrument branch of China Instruments Manufactures Association. His research interests are technology of key parts of chromatographic, miniature analytical instruments and chemical sensors. He has already published 54 SCI papers on professional journals at home and abroad including Anal. Chem. and J. Chromatogr. A. He has applied for 15 patents including two American patents, in which two have been applied in industrial production. He won the second prize of technological invention in Liaoning province in 2010 and technology innovation awards of China Instruments Manufactures Association in 2009. He has three NSFC, a special project of major equipment of MOST and Shanghai pujiang talents program.