

Microchip-Based Chemical Separations: Fundamental Advantages

J. Michael Ramsey
Oak Ridge National Laboratory
Oak Ridge, Tennessee 37831-6142

This lecture will focus on the use of microfabricated fluidic structures for performing chemical separations. Advantages and disadvantages of performing chemical separations on such structures will be discussed. The various plate height terms associated with microchip based separations will be discussed. Device design issues related to minimizing various plate height terms will also be discussed as they relate to separation speed and efficiency. Experimental results on model and relevant systems will be presented.

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