

Very High Throughput Sample Introduction Strategies for ICP-AES & ICP-MS

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The theory and performance of high throughput sample introduction technologies based on advanced autosampler design and flow injection principles is described. A significant reduction in the time required to achieve stable aerosol conditions in the plasma and very fast washout permits increases in sample throughput by factors of 2 to 5-fold depending on analysis and measurement period conditions. Stand-alone complete autosampler configurations, including the SC-nn FAST systems, are described for ultimate performance enhancements. The autosampler independent oneFAST system is shown to be a relatively low cost pathway to achieving very high throughput using the analysts existing autosampler equipment. Specialized accessories for signal enhancement and interference reduction a