Special Issue

Application of Chromatography in Analytical Chemistry

Message from the Guest Editors

The separation of molecules from a complex matrix is one of the most challenging processes and is the pivot for most analytical processes. Nanomaterials (NMs)-based processes and separation techniques have been successfully applied exploiting their nanoscale size, high area/volume ratio, unique surface functionalization properties, durability, reusability, etc. Carbon-compound nanomaterials (CNMs), silica, polymeric NPs, metallic or metal oxide, magnetic NPs, and metal–organic frameworks are the most commonly used NMs in diverse separation platforms. This relatively new field has shown future promise to overcome various challenges of convention separation techniques; nevertheless, the commercial utility of NP-based separation platforms is poor, mostly due to failure of reproducibility. The development of new nanomaterials pertaining to the different properties of NPs will certainly assist in the standardization of these techniques to improve laboratory and industrial applications. The challenge is applying chromatographic techniques with new supports and making methods reproducible by coupling the techniques with new, increasingly sensitive detectors (e.g., MS).

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