

Preface

In this special issue recent applications of various removal, separation, preconcentration, and speciation techniques such as solid phase extraction, solid phase microextraction, solvent microextraction, solidified floating organic drop microextraction, and cloud point extraction for the separation, preconcentration, and speciation of metals, metalloids, and compounds are presented. This special issue also provides some reviews involving separation, preconcentration, and speciation techniques.

Separation and/or removal techniques are widely used to remove certain components of the sample, commonly toxic metal ions and/or harmful organic compounds. Preconcentration and speciation techniques are somewhat different from separation techniques. In preconcentration and speciation techniques, an elution or desorption procedure follows the separation procedure. Preconcentration of analytes may be defined as collection of analytes from a large volume of sample to a smaller volume of solvent. Speciation may be defined as indicating the analytical activity of defined chemical species and measuring their distribution in a system. The preconcentration and speciation techniques have generally been used for analytical purposes in trace analysis.

We wish to thank to all authors, all reviewers, and the editorial team of the Turkish Journal of Chemistry for their contribution to improve the quality of the manuscripts. We hope that the readers of the journal will find recent applications of novel separation, preconcentration, and speciation techniques. We also hope that this special issue will find a large audience due to the articles that present novel techniques, novel materials, and novel applications.

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