

CHEMISTRY

The selected contributions to this year's Chemistry Panel reflect high quality work in two different fields: Green Chemistry and Nanoscale Materials.

In “Uses of Ionic Liquids in Analytical Chemistry”, A. Berthod and S. Carda-Broch discuss several applications of Room Temperature Ionic Liquids. RTILs are liquids in which ions are present, a fact that confers very interesting solvent properties to these compounds. Examples of usage in extractions, capillary electrophoresis, MALDI matrixes or GC stationary phases are presented.

R. Przenios^o, in “Unusual magnetic and structural properties of nanocrystalline Chromium”, presents a review about the crystalline and magnetic microstructure of nanocrystalline and amorphous chromium. Nanocrystalline chromium is an important material used by the electroplating industry. The author demonstrated that the small crystallite size as well as the preparation method considerably influences the electronic and magnetic properties of chromium.

I hope you enjoy the reading of the present volume and would like to encourage you to submit the results of your own research to the forthcoming fourth edition.

Paulo Figueiredo