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Editorial

It is a pleasure for the Editor to announce the publication of the second issue of this year, containing very interesting subjects for the readers. This issue begins with a review entitled "Chemometrics in analytical chemistry – an overview of applications from 2014 to 2018." A compilation of recent papers related to multivariate calibration and classification, as well as design of experiments applications and artificial intelligence methods have been reported. Applications of the chemometric techniques in different fields such as medical and pharmaceutical, food analysis, fuels, and biological and forensic were highlighted. The review also presents a promising scenario considering the evolution of the researches in the above-mentioned topics. Sequentially, the synthesis of sunscreen formulations containing inorganic/organic filters, or their mixture is described, and different physicochemical parameters of the colloidal system were determined alloying to evaluate the UV shielding ability. Continuing, a simple and rapid screening method is presented for direct speciation of arsenobetaine in tuna fish tissue and total arsenic in tuna fish tissue and robalo liver; the simplicity of the method enables its use in routine analyses. Following, the microstructural and mechanical properties of an aluminum matrix hybrid reinforced with 6-12 wt. % of garnet are given. For the composite, garnet is the ceramic material and Al-6000 alloys the matrix. This type of composite is of particular interest because of the growing demand for high performance light-weight materials in industrial applications. This issue is closed with the description of a correlation between X-ray structural data of cobalt(II) chloride complexes with some phosphine oxides in the solid state and their stability constants in acetone solution.

The Editor and his team thank all authors for their effective contributions, and reviewers for their outstanding manuscripts evaluation.

Assis Vicente Benedetti
Editor-in-Chief of EQJ