

The Elements in the Life of Professor Concepción Sánchez-Pedreño: A Journey Across the Development of Analytical Methods

Joaquín A. Ortuño,¹ María Ortuño²

¹ Department of Analytical Chemistry, Faculty of Chemistry, Regional Campus of International Excellence 'Campus Mare Nostrum', University of Murcia, Murcia, Spain.

² Department of Animal Health, Faculty of Veterinary Science, Regional Campus of International Excellence 'Campus Mare Nostrum', University of Murcia, Murcia, Spain.

Topic: Women in the chemical sciences, engineering and technologies

Abstract:

Concepción Sánchez-Pedreño is Honorary Emeritus Professor of the University of Murcia. She researched on Analytical Chemistry for more than five decades, mostly at the University of Murcia. She was awarded with the Medal of the Royal Spanish Society of Chemistry among other awards. Along this long period of research combined with devoted teaching, she developed hundreds of analytical methods for the determination of multitude of analytes.

In this communication, a study of her research work has been made from the analysis of more than two hundred papers of her authorship. The different analytes determined, chemical reactions used, instrumental techniques applied, type of methods developed and samples analysed have been identified and revisited. The main strategies used for the development of the corresponding analytical methods have been classified. A synthetic vision of the whole research work of Prof. Sánchez-Pedreño is presented which permits, not only to appreciate her extensive and brilliant work, but also to show paths for new researchers.