Special Issue

Advanced Chemometric Methods for Analytical Applications

Message from the Guest Editors

The rapid growth of data-driven technologies and advanced instrumentation has transformed the way we approach chemical detection and analysis. In this context, chemometric tools have become essential for reliably extracting meaningful information from complex, high-dimensional datasets. The application of chemometrics in fields as varied as food quality control, environmental monitoring, pharmaceutical research, and clinical diagnostics is driving a new era of intelligent, adaptive chemical analysis. Moreover, the use of multivariate models and rigorous validation strategies helps ensure the traceability, reproducibility, and practical applicability of analytical results, supporting high-confidence, evidence-based decision-making. This Special Issue thus aims to collect recent advances and innovative approaches in the application of chemometric tools for chemical detection and analysis, covering both experimental studies in laboratory settings and validation efforts in real-world environments, with the goal of promoting their technological transfer and adoption in practical scenarios.

Guest Editors

Dr. Marta Guembe-García
Departamento de Química, Facultad de Ciencias, Universidad de Burgos, Plaza de Misael Bañuelos s/n, 09001 Burgos, Spain

Dr. Lisa Rita Magnaghi
Department of Chemistry, University of Pavia, 27100 Pavia, PV, Italy

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Editors-in-Chief

Prof. Dr. Jin-Ming Lin
Beijing Key Laboratory of Microanalytical Methods and Instrumentation, Department of Chemistry, Tsinghua University, Beijing 100084, China

Prof. Dr. Nicole Jaffrezic-Renault
Institute of UTINAM, University of Franche-Comté, UMR-CNRS 6213, 16 Gray Road, 25030 Besançon, France

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