



## Chemometrics in Food Quality Control: New Challenges and Cutting-Edge Approaches

Guest Editors:

**Dr. Strahinja Kovačević**

Department of Applied and  
Engineering Chemistry, Faculty of  
Technology Novi Sad, University  
of Novi Sad, 21000 Novi Sad,  
Serbia

**Dr. Milica Karadžić Banjac**

Department of Applied and  
Engineering Chemistry, Faculty of  
Technology Novi Sad, University  
of Novi Sad, 21000 Novi Sad,  
Serbia

Deadline for manuscript  
submissions:

**31 May 2024**

### Message from the Guest Editors

Efficient food quality control cannot be imagined without suitable data processing tools. Chemometrics, as an unavoidable part of the modern quality control chain, provides various methods for data analysis, including pattern recognition and regression modeling, ranking and experimental design approaches. This Special Issue is focused on novel approaches in chemical, instrumental and physical analysis of food and agriculture products and chemometric processing of the analytical data in terms of:

- parametric and non-parametric pattern recognition (cluster analysis, principal component analysis, discriminant analysis, support vector machines, etc.);
- regression analysis (various linear and non-linear approaches);
- artificial intelligence (artificial neural networks);
- ranking approaches (sum of ranking differences);
- experimental design;
- analysis of variance (ANOVA);
- general descriptive statistics.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Giancarlo Cravotto**

Department of Drug Science and  
Technology, University of Turin,  
Via P. Giuria 9, 10125 Turin, Italy

## Message from the Editor-in-Chief

*Processes* (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

## Contact Us

---

Processes Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/processes](http://mdpi.com/journal/processes)  
[processes@mdpi.com](mailto:processes@mdpi.com)  
[X@Processes\\_MDPI](https://twitter.com/Processes_MDPI)