Special Issue

Oxidation-Reduction Phenomena in Wines

Message from the Guest Editors

Oxidation–reduction phenomena are crucial for wine quality. Must oxidation occurs via enzymic reactions while wine oxidation occurs via free radical reactions. Original and review papers dealing with wine oxidation are welcomed for inclusion in this Special Issue that will focus primarily on the following:

- Mechanisms of wine oxidation
- Role of sulfur dioxide and methodologies for its decrease
- Wine antioxidant compounds (e.g., phenolic compounds, glutathione, etc.)
- Wine aroma compounds
- Development of methods to monitor and/or model oxidation
- Impact of processing techniques and additives
- Effect of maturation, aging, and storage (barrel aging, bottle storage)
- Micro-oxygenation, hyperoxidation processes
- Copigmentation, red wine color stabilization
- Oxidative wines (sherry, jura, madeira, etc.)
- Impact of wine packaging materials
- Affected sensory parameters
- Health beneficial properties of wine antioxidants

Guest Editors

Prof. Dr. Ioannis G. Roussis

Laboratory of Food, Department of Chemistry, University of Ioannina, 45110 Ioannina, Greece

Prof. Dr. Stamatina Kallithraka

Department of Food Science and Human Nutrition, Agricultural University of Athens, Iera Odos 75, 11855 Athens, Greece

Deadline for manuscript submissions

closed (30 September 2023)

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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