Special Issue

New Trends in Wine Analysis and Production

Message from the Guest Editors

Changes in consumer preferences as well as climate and technological advances have led winemakers and researchers to constantly evolve wine-making practices and analysis techniques in order to differentiate their wines and gain a competitive advantage. New trends include, but are not limited to, , the following: the use of grape-sorting machines, advanced oxygen-free presses; climate adaptation strategies; the use of online sensors, smart tanks, and AI, machine learning, and data analytics; new enzymes; immobilization; new vinification techniques; continuous fermentation; and use of pulsed electric fields, non allergenic additives, and processing aids; wine dealcoholisation; high-pressure pasteurization; filtration; carbon capture systems; and advances in biodegradable and smart packaging.

Regarding wine analysis, Fourier-Transform Infrared (FTIR) and Near Infrared (NIR) spectroscopy, Nuclear Magnetic Resonance (NMR), and elemental analysis with atomic spectrometry, as well as various new methods and protocols in HPLC, GC, and olfactometry (eNose/eTongue) are being used to rapidly measure multiple parameters for quality control, authenticity, and process optimization.

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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.

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