Special Issue

Innovative Solutions for Producing High-Quality Silage

Message from the Guest Editor

Ensiling is a common method of preserving green forages. Globally, approximately 1 billion tons of silage is produced annually and serves as essential feed for ruminants or raw materials for biogas production. Silage fermentation is an anaerobic process driven by microorganisms, particularly lactic acid bacteria, which convert plant sugars into organic acids. This fermentation generates a low-pH environment that inhibits harmful microorganisms while preserving the nutritional value of the fresh plant material. However, despite the biochemistry of ensiling sounds simple, it can be highly complex due to interactions between chemical and microbial factors. In practice, silage quality often falls short of expectations, with the accumulation of hazards posing threats to human and animal health. To enhance the conservation of forage, innovative solutions are crucial for achieving high-quality silage production. This Special Issue aims to compile publications addressing all aspects of silage quality improvement. All types of articles, such as original research, opinions and reviews, are welcome.

Guest Editor

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