



**Showcasing research from Professor Xiaojian Hao's laboratory, Science and Technology on Electronic Test and Measurement Laboratory, North University of China, Taiyuan , Shanxi , China.**

High precision and fast classification of different dimensions of Baijiu using an OptGSCV quadratic optimization network combined with AS-LIBS

In this paper, a high-precision and rapid classification method for Baijiu with different dimensions based on laser-induced breakdown spectroscopy, high-frequency ultrasonic atomization system (AS-LIBS) and optimized grid search cross validation (Opt-GSCV) is proposed, which solves the problems of traditional Baijiu classification, such as low accuracy, difficult data processing, long analysis time and subjective consciousness. It not only introduces an innovative and efficient detection method for the Baijiu industry, but also provides important technical support and new ideas for key areas such as food safety production and Baijiu quality control.

### As featured in:



See Xiaojian Hao *et al.*, *J. Anal. At. Spectrom.*, 2024, **39**, 1789.