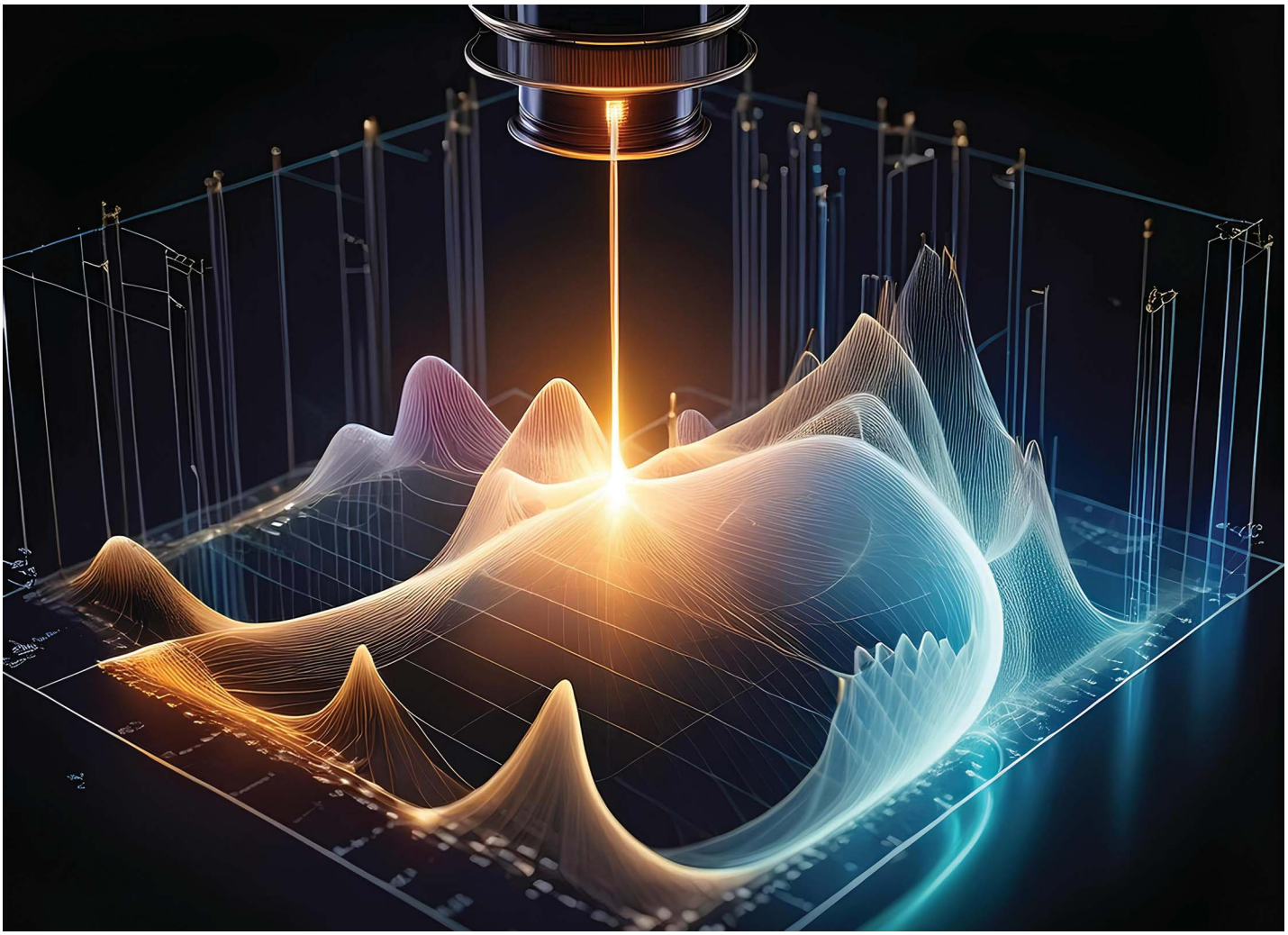

Showcasing research from Professor Lanxiang Sun's laboratory, Shenyang Institute of Automation, Chinese Academy of Sciences, Shenyang, China.

Combination of the internal standard and dominant factor PLS for improving long-term stability of LIBS measurements

This study proposes a method to enhance the long-term stability of LIBS by combining internal standard with the dominant factor PLS. The effectiveness of this approach was tested on a self-designed molten steel sensor, and results on low-alloy steel indicated superior calibration performance compared to other typical drift correction methods. These findings have significant guidance for improving the long-term stability of LIBS.

As featured in:

See Lanxiang Sun *et al.*, *J. Anal. At. Spectrom.*, 2024, **39**, 1778.

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