

Showcasing research from Professor Jie Shen's laboratory, School of Nuclear Science and Technology, Lanzhou University, Lanzhou, China.

Highly sensitive determination of lanthanides by nanochain enhanced laser-induced breakdown spectroscopy

This study represents a highly sensitive approach for determination of lanthanides by nanochain enhanced laser induced breakdown spectroscopy (LIBS). Remarkably, nanochain enhanced LIBS for determining Ce, La and Pr elements yielded an outstanding limit of detection (LOD): 27.47, 85.71 and 65.11 ng/mL, respectively, indicating that the nanochain configuration exhibited enhanced LIBS signal response.

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