

Recent advances of light-field modulated operation in laser-induced breakdown spectroscopy

Shangyong Zhao^{1,†}, Yuchen Zhao², Yujia Dai¹, Ziyuan Liu¹, Huihui Zha¹, Xun Gao^{3,4,†}

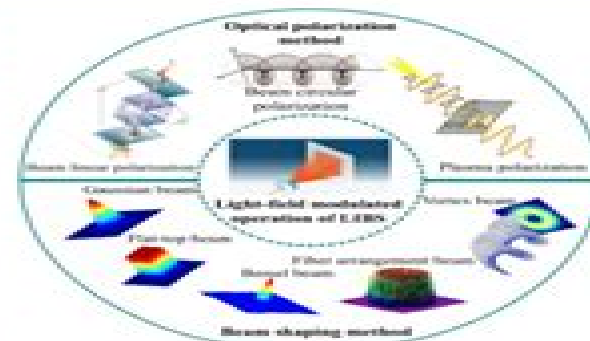
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 - 2 Nottingham University Business School China, University of Nottingham Ningbo China, Ningbo 315100, China
 - 3 School of Science, Changchun University of Science and Technology, Changchun 130022, China
 - 4 Ministry of Education Key Laboratory for Cross-Scale Micro and Nano Manufacturing, Changchun University of Science and Technology, Changchun 130022, China
- Corresponding authors. E-mail: [†]syzhao@zafu.edu.cn, [†]lasercust@163.com
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ABSTRACT

The simplicity and low-cost way to improve qualitative and quantitative analytical performance has always been a crucial concern for laser-induced breakdown spectroscopy (LIBS), and many scientists have been engaged in this evolving research direction. In this review, we investigated an update on recent developments in light-field modulated operation in LIBS. It covered a brief description of LIBS, optical polarization, and beam shaping. Here, the optical polarization is divided into laser beam polarization and plasma polarization. In addition, the methodology and development of light-field modulated LIBS were summarized and discussed. Finally, the existing problems with light-field modulated LIBS were presented, along with some of their own insights and the future direction of their development. This review will provide a guideline for LIBS researchers with basic knowledge, which is very useful in the signal optimization of LIBS research and applications.

Keywords laser-induced breakdown spectroscopy, light-field modulated, laser beam polarization, plasma polarization, beam shaping



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