

Publication

A Simple Acoustic-Based Method for Lens-to-Sample Distance Adjustment in μ LIBS

Conference Paper (Artikel, die in Tagungsbänden erschienen sind)

ID 4610884

Author(s) Abbasi, Hamed; Cattin, Philippe C.; Zam, Azhar

Author(s) at UniBasel [Abbasi, Hamed](#) ;

Year 2020

Title A Simple Acoustic-Based Method for Lens-to-Sample Distance Adjustment in μ LIBS

Book title (Conference Proceedings) 2020 Photonics North (PN)

Place of Conference Niagara Falls, ON, Canada

Year of Conference 2020

Publisher IEEE

Pages 1

ISSN/ISBN 978-1-7281-8109-7 ; 978-1-7281-8108-0

Keywords acoustic transducers;laser ablation;laser beam effects;measurement by laser beam;microfluidics;smart phones;sodium;simple acoustic-based method;lens-toSample distance adjustment; μ LIBS;smartphone sensor;laser-induced sound pressure level;lens-to-sample distance adjustment;microlaser-induced breakdown spectroscopy;Biomedical measurement;Chemical lasers;Focusing;Laser beams;Measurement by laser beam;Lenses;Plasmas;LIBS;focusing control;repeatability improvement

A cost-effective method employing a smartphone sensor to measure the laser-induced sound pressure level (SPL) has been introduced for lens-to-sample distance (LTSD) adjustment in micro laser-induced breakdown spectroscopy (μ LIBS).

URL <https://ieeexplore.ieee.org/abstract/document/9167018>

edoc-URL <https://edoc.unibas.ch/80113/>

Full Text on edoc No;

Digital Object Identifier DOI 10.1109/PN50013.2020.9167018

Document type (ISI) inproceedings