

Accepted Manuscript

Title: Nanostructuring of zirconium by femtosecond laser irradiation in the ambient environment of air and ethanol.

Authors: Nisar Ali, Shazia Bashir, Umm-i-Kalsoom, M.Shahid Rafique, Narjis Begum, Wolfgang Husinsky



PII: S0030-4026(17)30032-3
DOI: <http://dx.doi.org/doi:10.1016/j.ijleo.2017.01.021>
Reference: IJLEO 58724

To appear in:

Received date: 22-7-2016
Revised date: 8-1-2017
Accepted date: 8-1-2017

Please cite this article as: Nisar Ali, Shazia Bashir, Umm-i-Kalsoom, M.Shahid Rafique, Narjis Begum, Wolfgang Husinsky, Nanostructuring of zirconium by femtosecond laser irradiation in the ambient environment of air and ethanol., Optik - International Journal for Light and Electron Optics <http://dx.doi.org/10.1016/j.ijleo.2017.01.021>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Nanostructuring of zirconium by femtosecond laser irradiation in the ambient environment of air and ethanol.

Nisar Ali^{1,2,3,4,*}, Shazia Bashir³, Umm-i-Kalsoom^{1,3,4,5}, M. Shahid Rafique⁶, Narjis Begum⁷, Wolfgang Husinsky¹

1. *Institute of Applied Physics, Vienna University of Technology, Vienna, Austria*
2. *Department of Basic Sciences and Humanities, University of Engineering and Technology Lahore, Faisalabad Campus, Faisalabad, Pakistan.*
3. *Laser Laboratories, Centre for Advanced Studies in Physics, GC University Lahore, Pakistan.*
4. *Department of Physics, GC University Lahore, Pakistan.*
5. *Department of Physics, Riphah International University Islamabad, Lahore Campus, Lahore, Pakistan.*
6. *Department of Physics, University of Engineering and Technology, Lahore, Pakistan.*
7. *Department of Physics, COMSATS Institute of Information Technology, Islamabad, Pakistan.*

Corresponding author: Nisar Ali, chnisarali@gmail.com

Download English Version:

<https://daneshyari.com/en/article/5026238>

Download Persian Version:

<https://daneshyari.com/article/5026238>

[Daneshyari.com](https://daneshyari.com)