

## Accepted Manuscript

Title: LSPR based optical fiber sensors treated with nanosecond laser irradiation for refractive index sensing

Authors: D. Spasopoulos, S. Kaziannis, S. Danakas, A. Ikiades, C. Kosmidis



PII: S0925-4005(17)31997-4  
DOI: <https://doi.org/10.1016/j.snb.2017.10.095>  
Reference: SNB 23399

To appear in: *Sensors and Actuators B*

Received date: 22-6-2017  
Revised date: 14-9-2017  
Accepted date: 17-10-2017

Please cite this article as: D.Spasopoulos, S.Kaziannis, S.Danakas, A.Ikiades, C.Kosmidis, LSPR based optical fiber sensors treated with nanosecond laser irradiation for refractive index sensing, Sensors and Actuators B: Chemical <https://doi.org/10.1016/j.snb.2017.10.095>

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.

# LSPR based optical fiber sensors treated with nanosecond laser irradiation for refractive index sensing

**D. Spasopoulos\*, S. Kaziannis, S. Danakas, A. Ikiades, C. Kosmidis**

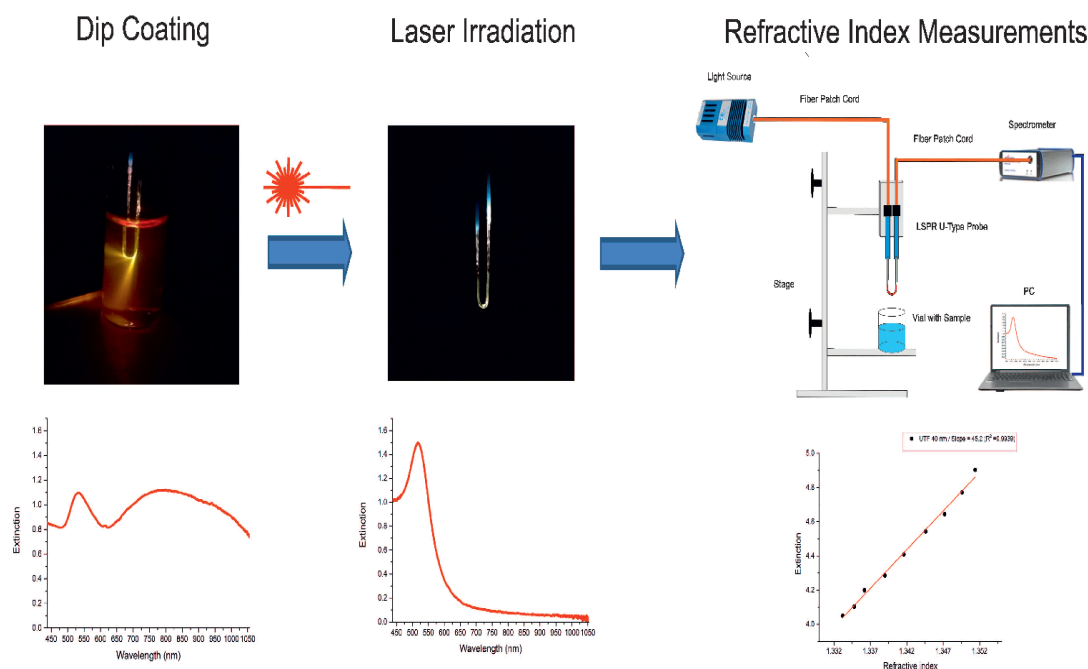
*Department of Physics, Atomic and Molecular Physics Laboratory,*

*University of Ioannina, University Campus, Ioannina GR-45110, Greece*

\* Corresponding author at: Department of Physics, Atomic and Molecular Physics Laboratory, University of Ioannina, University Campus, Ioannina GR-45110, Greece

E-mail address: [dspasop@cc.uoi.gr](mailto:dspasop@cc.uoi.gr) (D. Spasopoulos).

## Graphical abstract



## Highlights

- Sensitive RI sensors developed by laser treatment of AuNP coated U-Type fibers
- Dependence of RI sensitivity on the abundance and particle size of AuNP is explored

Download English Version:

<https://daneshyari.com/en/article/7141480>

Download Persian Version:

<https://daneshyari.com/article/7141480>

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