
Session Title: [Tu-II] Micro/Nano-structured Fibers and Grating Sensors
Date and Time: April 25, 2017 (Tuesday), 13:30-15:10
Session Chairs: Avinoam Zadok (Bar-Ilan University, Israel)
Thomas Geernaert (VUB Brussels, Belgium)

[Tu-II1] 13:30-13:55 (Paper No. 10323-560)

[Invited] Long Period Fiber Gratings for Bio-Sensing: An Improved Design Methodology

Somnath Bandyopadhyay¹, Ignacio Del Villar², Sankhyabrata Bandyopadhyay¹, Palas Biswas¹, Nandini Basumallick¹, and Tanoy Kumar Dey¹

¹CSIR-Central Glass & Ceramic Research Institute, India, ²Public University of Navarra, Spain

[Tu-II2] 13:55-14:07 (Paper No. 10323-39)

Nano-Structured Optical Fiber Bundles for Remote SPR Detection: A First Step toward in Vivo Biomolecular Analysis

Karim Vindas^{1,2,3}, Elodie Engel^{1,2,3}, Patrick Garrigue⁴, Thierry Livache^{1,2,3}, Stéphane Arbault⁴, Neso Sojic⁴, and Loic Leroy^{1,2,3}

¹Université Grenoble Alpes, France, ²CNRS, France, ³CEA, France, ⁴University of Bordeaux, France

[Tu-II3] 14:07-14:19 (Paper No. 10323-11)

Multi-Parameter Fiber-Optic Sensors based on Fiber Random Grating

Yanping Xu¹, Mingjiang Zhang^{1,2}, Ping Lu³, Stephen Mihailov³, and Xiaoyi Bao¹

¹University of Ottawa, Canada, ²Taiyuan University of Technology, China, ³National Research Council Canada, Canada

[Tu-II4] 14:19-14:31 (Paper No. 10323-385)

Magnetic Field Sensor based on Multi-Port Microcoil Resonator

W. Talataisong, R. Ismaeel, A. Masoudi, M. Beresna, and G. Brambilla

University of Southampton, UK

[Tu-II5] 14:31-14:43 (Paper No. 10323-329)

High Finesse Hollow-Core Fiber Resonating Cavity for High Sensitivity Gas Sensing Application

Yanzhen Tan^{1,2}, Wei Jin^{1,2}, Fan Yang^{1,2}, and Hoi Lut Ho^{1,2}

¹The Hong Kong Polytechnic University, Hong Kong, China, ²The Hong Kong Polytechnic University Shenzhen Research Institute, China

[Tu-II6] 14:43-14:55 (Paper No. 10323-209)

Compact Multichannel MEMS based Spectrometer for FBG Sensing

D. Ganziy^{1,2}, B. Rose¹, and O. Bang²

¹Ibsen Photonics A/S, Denmark, ²Technical University of Denmark, Denmark



April 24-28, 2017 / Maison Glad Hotel, Jeju, Korea

Convention Hall (1F)

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[Tu-II7] 14:55-15:07 (Paper No. 10323-133)

Compact Relative Humidity Sensor based on an Agarose Hydrogel Coated Silica Microsphere Resonator

Arun Kumar Mallik¹, Dejun Liu¹, Vishnu Kavungal¹, Xiaokang Lian¹, Gerald Farrell¹, Qiang Wu², and Yuliya Semenova¹

¹Dublin Institute of Technology, Ireland, ²Northumbria University, UK