

Session Title: [Th-VIII] Chemical, Biological, and Acoustic Sensing

Date and Time: April 27, 2017 (Thursday), 11:00-12:15

Session Chairs: Yun-Jiang Rao (University of Electronic Science and Technology, China)
Kwanil Lee (Korea Institute of Science and Technology, Korea)

[Th-VIII1] 11:00-11:12 (Paper No. 10323-258)

Wide-Field Photoacoustic Microscopy with a Fiber Laser Ultrasound Sensor

Yizhi Liang, Long Jin, Jun Ma, Xue Bai, and Bai-Ou Guan
Jinan University, China

[Th-VIII2] 11:12-11:24 (Paper No. 10323-366)

Photo- and Thermal Degradation of Olive Oil Measured Using an Optical Fibre Smartphone Spectrofluorimeter

Md Arafat Hossain^{1,2}, John Canning^{1,3}, Kevin Cook¹, Sandra Ast³, and Abbas Jamalipour²
¹The University of Sydney, Australia & The University of Technology Sydney, Australia, ²The University of Sydney, Australia, ³Australian Sensing and Identification Systems, Australia

[Th-VIII3] 11:24-11:36 (Paper No. 10323-410)

Frequency-Domain Technique to Measure the Inertial Response of Forward Stimulated Brillouin Scattering for Acoustic Impedance Sensing

Desmond M. Chow, Marcelo A. Soto, and Luc Thévenaz
EPFL Swiss Federal Institute of Technology, Switzerland

[Th-VIII4] 11:36-11:48 (Paper No. 10323-431)

Enhancement of the Sensitivity of Ferrofluidic Magneto-Optical Fiber Sensor by Nonadiabatic Tapered Hi-Bi Fiber in Fiber Loop Mirror

Azam Layeghi and Hamid Latifi
Shahid Beheshti University, Iran

[Th-VIII5] 11:48-12:00 (Paper No. 10323-482)

Specific Detection of Very Low Concentrations of DNA Oligonucleotides with DNA-Coated Long-Period Grating Biosensor

Karolina H. Czarnecka^{1,2}, Magdalena Dominik¹, Marta Janczuk-Richter³, Joanna Niedziółka-Jönsson³, Wojtek J. Bock⁴, and Mateusz Śmietana¹
¹Warsaw University of Technology, Poland, ²Medical University of Lodz, Poland, ³Centre de Recherche en Photonique Université du Québec en Outaouais, Canada



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

Convention Hall (1F)

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[Th-VIII6] 12:00-12:12 (Paper No. 10323-545)

Refractive Index Sensing with Al₂O₃-Nanocoated Long-Period Gratings Working at Dispersion Turning Point: Temperature Cross-Sensitivity

Mateusz Śmietana¹, Magdalena Dominik¹, Predrag Mikulic², and Wojtek J. Bock²

¹Warsaw University of Technology, Poland, ²Medical University of Lodz, Poland, ³Centre de Recherche en Photonique Université du Québec en Outaouais, Canada