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Photonic Slotted Structures for Biosensing

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Monitoring of chemical and biological species dispersed in biologic fluids is one of the most promising research topics in the field of photonics due to the large number of practical applications that can result from it, ranging from the environment monitoring to biomedicine.

Slotted structures typically enhance the light-matter interaction and their use in the context of biosensing is receiving a growing interest.

The talk, after a short overview of the photonic biosensing, critically reviews some selected last achievements in the research field of slotted structures for biosensing.

Francesco Dell'Olio received the M.Sc. degree in electronic engineering (cum laude) and the Ph.D. degree in information engineering from Polytechnic University of Bari, Bari, Italy, in 2005 and 2010, respectively. Since December 2019, he has been an Assistant Professor at the Polytechnic University of Bari. His research interests include integrated optoelectronics and photonics. He has been involved in several research projects and is the co-author of more than 100 journal articles and conference papers.

Biography

Dr. Pham Xuan Phu is currently lecturer and researcher of Rural Development and Natural Resources Management Department, Faculty of Agriculture and Natural Resources, An Giang University, a member of Ho Chi Minh City National University, Viet Nam. He has more than sixteen years' experience in teaching in researching. He has strong background in the fields of integrated rural development and agriculture. He has published several papers in international journal and local newspapers. My research is interesting about indigenous knowledge, vulnerable livelihoods, farming systems, migration, agro-ecosystems, social learning on indigenous knowledge farmers adaptive capacity, social resilience to flooding, adaptation to climate change. Besides, he performs as livelihood and climate change policy advisor for Oxfam, VRN, Green IDEA, RDViet and WARECOD to undertake research and development activities in the fields of livelihood, natural resources management, water, energy and climate resilience components.

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