Special Issue

Atomic Layer Deposited Thin Films for Optical Fiber Sensors

Message from the Guest Editor

Novel optical sensors most often require special thin films made of various materials, or surface structures with different properties, which initiate or modify their sensorial responses. The sensing properties of these devices stronaly depend on properties of such thin film materials. In the atomic layer deposition (ALD) technique, gaseous chemical precursors are delivered to the reaction zone only separately in time. As a result, the complementary and sequentially repeated chemical reactions of the thin film growth take place in a selflimiting manner on the coated surface. Thanks to this paradigm, a truly atomic control of the film thickness is possible, and films are uniquely conformal, tight, and uniform, even when they are deposited on complicated high-aspect-ratio surfaces. Moreover, the ALD technique enables the deposition of a wide range of materials, which may show various properties as requested by optical sensors-oxide isolators. semiconductors and conductors, nitride isolators, metallic nitrides, luminescent materials, metals and many others. It is my pleasure to invite you to submit a manuscript for this Special Issue.

Guest Editor

Dr. Kamil Kosiel Łukasiewicz Research Network-Institute of Microelectronics and Photonics, Al. Lotników 32/46, 02-668 Warsaw, Poland

Deadline for manuscript submissions

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Message from the Editor-in-Chief

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada 2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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