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Optical Coatings: From Materials to Applications

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Message from the Guest Editor

Thin-film materials can be used more broadly as photodetectors, infrared and quantum infrared photodetectors, semiconductor and quantum cascade lasers, photovoltaic cells, integrated circuits, and so on. This section welcomes the submission of articles on topics that include: Thin-film and coating technologies, including physical vapor deposition (PVD), magnetron sputtering (MS), sol–gel technology (SLGL), pulsed laser deposition methods (PLD), plasma/ion beam deposition (PIBD), chemical vapor deposition (CVD); Diagnosis of the characteristics of thin films—using optical, electrical, thermal, spectroscopic, mechanical, X-ray and electron microscopic methods.

In particular, the topics of interest include, but are not limited to:

- Technologies and mechanisms of growth of thin films;
- Wide-bandgap, narrow-bandgap semiconductor and metal thin films;
- Thin-film structures for fiber-optic elements, optoelectronic and photovoltaic devices;
- Thin-film coatings for biomedicine and bioelectronics devices;
- Thin films for lenses, mirrors and other optical elements.

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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