

Topical Collection

Pulsed Laser Deposition of Thin Films: Recent Advances and Challenges

Message from the Collection Editors

Since its first introduction several decades ago, Pulsed Laser Deposition (PLD), proved a powerful technique for the synthesis of a broad spectrum of functional thin films. Indeed, with respect to other conventional physical vapor deposition techniques, PLD exhibits several advantages, such as control of stoichiometry especially for materials with complex composition, adherent coatings, easy to obtain multi-layered thin films and combinatorial maps, good versatility of experimental design, and morphology and crystallinity control, to mention a few. Moreover, tailoring the composition-structure-properties relationship of the coatings is possible by adjusting the deposition conditions. In view of creating a knowledge platform devoted to laser-based deposition technologies, we kindly invite you to submit your recent work to our Special Issue entitled “Pulsed Laser Deposition of Thin Films: Recent Advances and Challenges.”

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About the Journal

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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