





an Open Access Journal by MDPI

Thin Films and Nanostructures by MOCVD: Fabrication, Characterization and Applications

Guest Editor:

Dr. Massimo Longo

Institute for Microelectronics and Microsystems, National Research Council (CNR-IMM), Agrate Brianza, Italy

Deadline for manuscript submissions:

closed (15 December 2021)

Message from the Guest Editor

Metalorganic Chemical Vapor Deposition (MOCVD) has been attracting continuous interest, being related to the study and fabrication of many devices, ranging from optoelectronics, microelectronics, sensors, and detectors, to energy harvesting. It yields state-of-the art devices that benefit from high process control, and a large variety of good quality materials (either thin films, multilayers, or low-dimensional structures), which can be grown with excellent doping control, large area deposition, and easy industrial transferability. Moreover, being a chemical deposition technique, MOCVD enables conformal growth with relatively low costs and convenient deposition rates, which is particularly useful when the film coating of complex substrate recesses or nanostructures is required. All these advantages cannot be easily found in other advanced deposition techniques. Indeed, different devices of commercial interest are grown by MOCVD, such as light emitting diodes (LEDs), high-efficiency solar cells, and infrared detectors.

The scope of this Special Issue is to gather different contributions from different areas of MOCVD research activity.







IMPACT FACTOR 2.9 CITESCORE 5.0

an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Surfaces, Coatings and Films*)

Contact Us