

Special Issue

Wide Bandgap Semiconductors: Growth, Characterization, Devices and System Applications

Message from the Guest Editor

Wide bandgap semiconductors are rapidly emerging as disruptive materials for a wide range of applications. Even though some products are already available on the market, efforts are still needed to improve the performance and reliability of the devices, as well as to identify novel materials and structures toward widening the possible application fields. In order to showcase the most recent advancements, we are requesting submissions for a Special Issue on wide bandgap semiconductors and their applications. Topics of interest include but are not limited to:

- Crystal growth: Bulk growth, epitaxial growth, doping and point defects, growth methods, and related technology;
- Characterization: Optical and electrical properties, structural analysis, and theory and simulation;
- Devices: Visible, UV, and white LEDs, micro LEDs, laser diodes, solar cells, detectors, transistors, diodes, high-power and high-frequency devices, device processing, contacts, and reliability;
- System applications of wide bandgap semiconductors: Power supplies and modules, electric chargers, motor drive and control, hybrid and/or electric vehicles, and related utilities.

Guest Editor

Dr. Sheng-Po Chang

Institute of Microelectronics & Department of Electronic Engineering,
Department of Photonics, National Cheng Kung University, Tainan City
70101, Taiwan

Deadline for manuscript submissions

closed (31 May 2022)



Coatings

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Impact Factor 2.8
CiteScore 5.4



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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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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

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