



Emerging Trends in Perovskite Films: Synthesis and Applications

Guest Editors:

Prof. Dr. Lucjan Jacak

National Laboratory for Quantum Technologies, Wrocław University of Science and Technology, 50-370 Wrocław, Poland

Dr. Witold A. Jacak

Department of Quantum Technology, Wrocław University of Science and Technology, 50-370 Wrocław, Poland

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Message from the Guest Editors

Dear Colleagues,

Perovskite materials are most prospective for photovoltaic and optoelectronic applications because of their excellent physical properties and simple, low-temperature, and low-cost chemical methods of synthesis and deposition on various substrates. The efficiency of perovskite solar cells achieves a level of conventional Si-based cells and can even surpass the Shockley–Queisser efficiency limit in various strategies. Moreover, recent advances in enhancing the durability of perovskite cells strengthen the position of perovskite cells on the market. Therefore, focusing research on related directions within this Special Issue becomes increasingly important.

Prof. Dr. Lucjan Jacak

Dr. Witold A. Jacak

Guest Editors





Editors-in-Chief

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

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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.

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Coatings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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