Special Issue

Emerging Trends in Nanoscience and Nanotechnology: Materials, Devices, and Related Characterization Methods for Deep Technology

Message from the Guest Editors

"Deep technology" indicates a broad group of advanced technologies based on significant scientific and technological discoveries. Deep technologies include, but are not being limited to, artificial intelligence, machine learning, biotechnology, quantum technologies, green and sustainable energy technologies. Achieving success in these fields requires advances in the development of new materials, often at the nanometre scale; nanocomposites; and nanomaterials-based innovative devices. In turn, these need the availability of increasingly advanced methodologies for their multiscale characterization. This Special Issue has been inspired by the discussions that emerged during the preparation of **NanoInnovation 2025**, which embodies the same spirit and mission: to provide a forum for dialogue and cross-fertilization across disciplines, highlighting the role of nanoscience and nanotechnology as key enablers of deep technologies. **Importantly, manuscript submissions are not limited to conference participants but are open to the entire community interested in the topics of the event, thereby ensuring broad and inclusive participation**...

Guest Editors

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Deadline for manuscript submissions

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Our journal serves as a crucial nexus where theoretical insights meet experimental validation, advancing the understanding of complex engineering phenomena. The comprehensive exploration of these topics not only contributes to academic knowledge, but also leads to practical applications that address real-world engineering challenges.

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