

C1. Quantum materials: Synthesis to Applications

Dear Colleagues:

We are excited to invite you to submit an abstract to our symposium, "**C1. Quantum materials: Synthesis to Applications**", which will take place during the **32nd International Materials Research Congress**, in Cancun, Mexico, scheduled for August 18-23, 2024. Details about our Symposium can be found in: <https://www.mrs-mexico.org.mx/imrc2024/symposium-C1>

SCOPE:

This symposium focuses on the exploration and discussion of cutting-edge advancements in the field of quantum materials, which are substances engineered at the nanoscale level to exhibit unique quantum properties that can be harnessed for various applications. Intends to bring together experts academia, industry, and research institutions to share their insights, discoveries, and developments related to the synthesis, characterization, and utilization of quantum materials.

SYMPOSIUM TOPICS:

- Synthesis methods to create quantum materials: CVD, PVD, PLD, PLAL...
- Functionalization of quantum materials
- Characterization of quantum materials
- Carbon-based materials: graphene, carbon nanotubes, carbon quantum dots, nanodiamonds...
- Transition dichalcogenide materials: MoS₂, MoSe₂, MoTe₂, WS₂, WSe₂, WTe₂...
- Magnetic materials
- Dirac materials
- Kagome materials
- Topological insulators
- Theory and first principle-based calculations

We hope to meet you soon in Cancun, Mexico!

Sincerely
Organizers of Symposium C1

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