

Mini symposium (MS02)

Advances in Gas Sensors Technology

Organizers:

Nouha Alcheikh, Khalifa University, UAE

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Description:

The mini symposium aims to explore the latest advancements in gas sensor technology, which are suitable for a wide range of applications. Whether in the oil and gas industry, industrial manufacturing facilities and safety, water and wastewater treatment plants, new energy sectors, environmental monitoring, healthcare, or homeland security, these sensors provide reliable solutions for gas detection.

The mini-symposium will focus on the development of novel materials such as 2D graphene, composite, and metal-organic framework (MOF) materials, as well as advanced Micro/Nano sensors utilizing MEMS/NEMS technology for highly selective and sensitive gas sensing applications. Additionally, there is growing interest in memory devices for gas sensing.

The event will cover innovative fabrication techniques and cutting-edge sensing mechanisms. Attendees will gain insights into current challenges and future directions in the field, fostering collaboration and knowledge exchange among researchers, industry experts, and policymakers.