



CALL FOR ABSTRACTS

Topic 2-4: Manufacturing of Atomically-Thin, Two-Dimensional Materials

Recent advances in atomically-thin crystalline materials can lead a new paradigm of materials by designing and constructing the building blocks and then combining them into heterostructure architectures. The typical atomically-thin materials include but are not limited to graphene, boron-nitride (BN), MoS₂, WS₂, NbSe₂, Bi₂Te₃, silicon nanomembrane, etc. Furthermore, due to their ultralow bending stiffness, atomically-thin materials can enable flexible/stretchable device-level functionalities, beyond those in bulk material systems.

This topic includes (1) manufacturing of atomically-thin materials and (2) design and manufacturing of 2D materials based flexible/stretchable devices, composites and coatings. These atomically-thin materials may open doors for flexible electronic and photovoltaic devices and liquid purification.

Conference Website: www.asme.org/events/imece/

Abstract Deadline: **March 6** Notification of Acceptance: **March 13**

Potential authors are encouraged to submit a 400-word abstract to the appropriate topic. Authors can register for technical paper publication (no more than 10 pages) or technical presentation only. Technical paper drafts must be submitted by **May 8**.

Sponsored by: **Materials and Manufacturing Divisions**

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