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**MARCH 14-18, 2021 • ORLANDO WORLD CENTER MARRIOTT
ORLANDO, FLORIDA, USA
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SUBMIT AN ABSTRACT TO:

ADVANCED MATERIALS

2D MATERIALS – PREPARATION, PROPERTIES & APPLICATIONS

Since the discovery of Graphene, interest in basic and applied research in 2D-Materials is on the rise. Challenges and opportunities continue to grow in the areas of process-property-performance correlations in 2D- Materials. Efforts to transfer technology from fundamental R&D to prototyping to manufacturing are being pursued rigorously on a global scale. Studies on materials such as Carbon Nanotubes, Graphene, Hexagonal Boron Nitride, Perovskites, Phosphorene, Transition Metal Dichalcogenides (TMDCs), Xenos (Germanene, Silicene, Stanene) are of interest to the Symposium.

This symposium will include, but will not be limited to the following topics:

Scope 1: Methods of Fabrication, Material Properties - Top-Down Approach – Mechanical Exfoliation, Liquid Phase Exfoliation, Ball-Milling Based Exfoliation - Bottom-Up Approach – Chemical Vapor Deposition, Wet Chemical Synthesis, Hydro/Solvothermal Synthesis Material Properties -Electrical, Electronic, Magnetic, Mechanical, Optical, Structural & Thermal Properties.

Scope 2: Modelling & Simulation Band-Structure, Transport Properties, Optical Properties, Device Simulation - Tools & Methods - Data sets of Properties - Standards, Methods

Scope 3: Device Fabrication, Properties & Applications Studies focused on the use of these materials for the fabrication of membranes, 2D-sheets, 2- and 3- Terminal active and passive devices, photodetectors, sensors, transistors, applications in batteries, solar cells, thermoelectrics, topological insulators, ultracapacitors, valleytronics are some of the examples of interest to the Symposium.

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**Abstract Deadline is July 1, 2020. Submit online at
www.programmaster.org/TMS2021.**

Questions?
Contact programming@tms.org