



# CALL FOR PAPERS

**ICMTK 2021**  
**Dec 16-17, 2021**  
**Barcelona, Spain**

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICMTK 2021 : International Conference on Materials Thermodynamics and Kinetics is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Materials Thermodynamics and Kinetics. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Thermodynamics in Materials  
Science  
Materials Thermodynamics  
Thermodynamic Variables  
Chemical Thermodynamics in  
Materials Science  
Application of Thermodynamics and  
Kinetics in Materials Engineering  
State Variables and Functions  
Thermodynamic Systems and  
Processes  
Properties of Materials  
Stored Energy in Solids, First Law  
for Fluids  
Quasi-static Processes  
Heat Capacities and Gaseous  
Behavior  
Internal Energy and Enthalpy for  
Fluids  
Thermodynamic Functions for General  
Systems

The Second Law  
Heat Stored during Phase Changes  
Gibbs Free Energy  
Entropy Content in Materials  
Conditions of Equilibrium  
Describing the State of an Alloy  
Generalized Conditions for  
Equilibrium  
The Chemical Potential  
Mathematics of Thermodynamics  
Mathematical Relations and Changing  
Variables  
Mathematics and Stability  
Implications of Equilibrium and  
Gibbs-Duhem  
Symmetry and Equilibrium