Special Issue

Thermodynamics of Matter in Wide Range of Entropies

Message from the Guest Editor

This issue is devoted to experimental and theoretical studies of the behavior of matter in a wide range of thermodynamic parameters (energy, pressure, temperature, volume, and entropy). Of interest are topics such as entropy in the equations of state of various substances, phase transitions and critical phenomena, the processes of establishing thermodynamic equilibrium in matter under intense pulsed influences, the thermodynamics of non-stationary processes in condensed matter and plasma under conditions of high energy concentration, and the stability limits and decay of states of thermodynamic equilibrium in solids and liquids under overheating and high tensile stresses (negative pressures). Works on the determination of the entropy of various systems, simple substances and mixtures in modeling and experiments are welcome.

Guest Editor

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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