

Special Issue

Macroscopic and Microscopic Thermodynamics: From Fundamentals to Present Applications

Message from the Guest Editors

As in the case of other “frontier” areas of knowledge, thermodynamics stand out, along with other sciences, in taking on new challenges in solving problems, and ultimately in the transfer of knowledge. But for these purposes, it is necessary to identify the fields of interest in which there are demands and to close the communication gaps that currently exist between experimental and theoretical researchers.

In recent decades, the incorporation of the molecular point of view of matter, combining laws of classical and statistical thermodynamics with chemical-physical models of the structure of matter and intermolecular forces, has allowed the development of procedures that are very useful to solve a wide variety of problems in fields so diverse as those of chemistry, chemical engineering, materials, energy, food or health sciences.

This Special Issue represents an invitation to researchers on the field of molecular thermodynamics and other related fields to contribute their works, gathering together and promoting their research lines and building bridges between the basic aspects of science and the new developments on technological processes and materials.

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