

Editorial: Inaugural Issue of the International Journal of Molecular and Theoretical Physics

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Editorial

The Journal of Molecular and Theoretical Physics was just born with the aim to become an efficient disseminator of original papers and topical reviews on fundamental, theoretical and experimental research in molecular physics. The best way to achieve this purpose is to receive good research works for diffusion around the world, thus offering a discussion forum for people involved in this exciting topic.

Molecular physics covers different particular fields, such as physical properties of molecules, chemical bonds, molecular dynamics and spectroscopic techniques. The essential atomic orbital theory is also partly included to the molecular orbital theory, which incorporates electronic, vibrational and rotational excitation states.

Theoretical physics closely relates to atomic physics and overlaps with theoretical chemistry, chemical physics and physical chemistry. It seeks to develop mathematical models for a better understanding of physical phenomena. In this way, evaluation of properties and prediction of new phenomena under different conditions are possible. Thus, mathematical methods based on first principles quantum mechanics for studying the structure, spectra and collision properties of molecules are behind theoretical molecular physics.

However, classical physics and quantum mechanics are equality considered. Similarly, interplay between basic, applied and technological research works are very welcome, particularly including interdisciplinary aspects, although the bulk of the subject will fall mainly within theoretical molecular physics.

Some particular topics include structure and dynamics of matter/antimatter and electromagnetic fields interactions with molecules, Molecular collisions and interaction of molecules with solids and surfaces, Quantum optics, Molecular spectroscopy

and characterization, Ultra-fast electronic dynamics and multiphoton processes.

This journal hopes to underpin foundations of great collaborative science through efforts from diversity geographical contributions. Only the best useful ideas and the most efficient learning arise from participation of many people around the world. Scientific progress is particularly ensured by an active cooperation between researchers, where open publications of high quality contributions play a very important role.

I wish all our future readers an enjoyable and fruitfully reading.

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