DESCRIPTION

The *Journal of Molecular Liquids* includes papers in the following areas:

- Simple *organic liquids* and mixtures
- *Ionic liquids* and *deep eutectic solvents*
- *Surfactant solutions* (including micelles and vesicles) and *Colloids*
- *Thermotropic* and *lyotropic liquid crystals and gels*
- *Ferrofluids*
- Water, *aqueous solutions* and other hydrogen-bonded liquids
- *Lubricants, polymer solutions* and melts
- *Molten metals* and *salts*
- *Phase transitions* and critical phenomena in liquids and confined fluids
- *Self assembly* in complex liquids
- *Biomolecules* in solution
- *Surface science* involving solid-liquid and liquid-liquid interfaces.

The emphasis is on the molecular (or microscopic) understanding of particular liquids or liquid systems, especially concerning structure, dynamics and intermolecular forces, and on the solvent roles in structural and dynamical properties, thermodynamic quantities, functions, and reactions at the molecular level. Experimental studies, computer simulations, quantum chemical simulations and analytical theory will be considered for publication. The experimental techniques used may include:

- Conventional spectroscopy (mid-IR and far-IR, Raman, NMR, etc.)
- Non-linear optics and time resolved spectroscopy (psec, fsec, asec, ISRS, etc.)
- Light scattering (Rayleigh, Brillouin, PCS, etc.)
- Dielectric relaxation
- X-ray and neutron scattering and diffraction.

Papers just reporting experimental results that do not contribute to the understanding of the fundamentals of molecular liquids and ionic liquids and solutions will not be accepted. Only papers of a non-routine nature and advancing the field will be considered for publication.
AUDIENCE

Physical Chemists, Physicists, Spectroscopists, Colloid Scientists, Industrial Scientists interested in fluid phase phenomena, interfaces, or macromolecular liquids.

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**INTRODUCTION**

The *Journal of Molecular Liquids* is an international journal devoted to fundamental aspects of structure, interactions and dynamic processes in simple, molecular and complex liquids.

**Types of papers**

The journal includes papers in the following areas:
- simple organic liquids and mixtures
- ionic liquids
- surfactant solutions (including micelles and vesicles) and liquid interfaces
- colloidal solutions and nanoparticles
- thermotropic and lyotropic liquid crystals
- ferrofluids
- water, aqueous solutions and other hydrogen-bonded liquids
- lubricants, polymer solutions and melts
- molten metals and salts
- phase transitions and critical phenomena in liquids and confined fluids
- self assembly in complex liquids.

The emphasis is on the molecular (or microscopic) understanding of particular liquids or liquid systems, especially concerning structure, dynamics and intermolecular forces. The experimental techniques used may include:
- Conventional spectroscopy (mid-IR and far-IR, Raman, NMR, etc.)
- Non-linear optics and time resolved spectroscopy (psec, fsec, asec, ISRS, etc.)
- Light scattering (Rayleigh, Brillouin, PCS, etc.)
- Dielectric relaxation
- X-ray and neutron scattering and diffraction.

Experimental studies, computer simulations (MD or MC) and analytical theory will be considered for publication; papers just reporting experimental results that do not contribute to the understanding of the fundamentals of molecular and ionic liquids will not be accepted.

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