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DESCRIPTION

The *Journal of Molecular Structure* is dedicated to the publication of full-length articles and review papers, providing important new structural information on all types of chemical species including:

- Stable and unstable molecules in all types of environments (vapour, molecular beam, liquid, solution, liquid crystal, solid state, matrix-isolated, surface-absorbed etc.)
- Chemical intermediates
- Molecules in excited states
- Biological molecules
- Polymers.

The methods used may include any combination of spectroscopic and non-spectroscopic techniques, for example:

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- Optical rotatory dispersion and circular dichroism
- Fluorescence and phosphorescence techniques
- Electron spectroscopies (PES, XPS), EXAFS, etc.
- Microwave spectroscopy
- Electron diffraction
- NMR and ESR spectroscopies
- Mössbauer spectroscopy
- X-ray crystallography
- Charge Density Analyses
- Computational Studies (supplementing experimental methods)

We encourage publications combining theoretical and experimental approaches. The structural insights gained by the studies should be correlated with the properties, activity and/or reactivity of the molecule under investigation and the relevance of this molecule and its implications should be discussed.

IMPORTANT NOTE: Papers describing routine studies of little structural significance (e.g. manuscripts dealing only with glassy materials, characterization of particles and materials by...
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AUDIENCE

Chemical Physicists, Chemists, and Biochemists, concerned with Molecular Structure and Dynamics.

IMPACT FACTOR

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INTRODUCTION

The Journal of Molecular Structure is dedicated to the publication of full-length articles and review papers, providing important new structural information on all types of chemical species including:

- stable and unstable molecules in all types of environments (vapour, molecular beam, liquid, solution, liquid crystal, solid state, matrix-isolated, surface-absorbed etc.)
- chemical intermediates
- molecules in excited states
- biochemicals
- polymers.

The methods used may include any combination of spectroscopic and non-spectroscopic techniques, for example:

- infrared spectroscopy (mid, far, near)
- Raman spectroscopy and non-linear Raman methods (CARS, etc.)
- force constant and molecular mechanics calculations
- electronic absorption spectroscopy
- optical rotatory dispersion and circular dichroism
- fluorescence and phosphorescence techniques
- electron spectroscopies (PES, XPS), EXAFS, etc.
- microwave spectroscopy
- electron diffraction
- NMR and ESR spectroscopies
- Mössbauer spectroscopy
- X-ray crystallography.

Papers describing routine studies of little structural significance (e.g. straightforward X-ray crystal structure determinations) are not encouraged.

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