



## Molecular Crystals and Liquid Crystals

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### Spectroscopy of Molecular Crystals: A Bibliography for 1972

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# Spectroscopy of Molecular Crystals

A Bibliography for 1972

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## 1. INTRODUCTION

The 1972 Bibliography continues the series of annual bibliographies "Energy Transfer in Polyacene Solid Solutions" edited from 1957. The full list of the previous issues one can find in *Molecular Crystal and Liquid Crystals*, **6**, 175 (1969), **3-4**, 329 (1971), **17**, 55 (1972) and **19**, 331 (1973). The 1972 Bibliography is made up on the basis of the bibliography-scientific work carried out in the Institute of Solid State Physics of the Academy of Sciences of the U.S.S.R.

In the 1972 Bibliography the classification of materials is the same as in the previous one. However, in addition to the scheme, some sections are somewhat enlarged. Section 3.2 now involves photoelectron spectra of molecules in gaseous and condensed states. Section 11 contains thermodynamic data on molecular crystals and studies of intramolecular motion by NMR and self-diffusion, as well. Section 12 has become generalized into a section on neutron spectroscopy of molecular crystals. These changes reflect the fast development of these branches of physics.

The arrangement of papers is the same as in the previous issues. The references in each section are listed in alphabetical order of authors and the language is indicated following the year. As opposed to previous issues all references are now numbered to facilitate the use of the author index. Where possible references to *Physics Abstracts* are given.

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### 3. SPECTRA OF AROMATIC MOLECULES IN GASEOUS AND CONDENSED STATES

#### 3.1 Electronic states

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### 3.9 Laser excitation, stimulated emission and light generation

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### 3.10 Spectroscopy of photochemical reactions

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#### 4 ABSORPTION AND LUMINESCENCE SPECTRA OF INTERMOLECULAR COMPLEXES

##### 4.1 Charge-transfer complexes

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#### 4.2 Excimers, dimers and other homomolecular complexes

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## 5 SPECTRA OF PURE MOLECULAR CRYSTALS

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## 7 EXCITON PROBLEM OF MOLECULAR CRYSTALS

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